DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, LITTLE ROCK DISTRICT
700 WEST CAPITAL
LITTLE ROCK, ARKANSAS 72203-3225

PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: 408-SWL-2022-0009 Interstate 49 Crossing

PUBLIC NOTICE COMMENT PERIOD:
Begins: August 19, 2024
Ends: August 24, 2024

REQUESTER: In compliance with U.S.C. Title 33, Chapter 9, Subchapter 1, Section 408, the Arkansas Department of Transportation (requester) has requested permission from the U.S. Army Corps of Engineers (USACE) to construct an interstate crossing (I-49) of the Arkansas River in Crawford County, Arkansas just downstream of Trimble Lock and Dam.

LOCATION: 35.20.44; -94.17.25

REQUESTERS PROPOSED ACTION: The proposed project will be a four lane interstate spanning the McClellan-Kerr Arkansas River Navigation System with a span length of approximately 5,000 feet, followed by an approximately 2,500 foot embankment followed by a bridge spanning approximately 2,500 feet that also crosses the Crawford County Levee, a federally constructed privately maintained levee.

ENVIRONMENTAL IMPACTS OF PROPOSED ACTION: In accordance to law, the USACE has reviewed the environmental compliance documentation submitted by the requester and determined that that no suitable habitat for federally listed species under the jurisdiction of the U.S. Fish and Wildlife Service (USFWS) exists. The USACE has also verified that construction activities associated with the proposed project are not likely to cause adverse effects to federally listed species or designated critical habitat under the jurisdiction of the USFWS.

The proposed project was reviewed for cultural resources, in accordance with Section 106 of the National Historic Preservation Act, based on an area of potential effect determined based upon construction plans and Endangered Species Act figures. Based on the cultural resources review, the project meets the No Effect threshold, concluding the Section 106 process.

AUTHORITY: The authority to grant permission for a temporary or permanent use, occupation, or alteration of any USACE civil works project is contained in Section 14 of the Rivers and Harbors Act of 1899, as amended, codified at 33 U.S.C. 408 (“Section 408”). Section 408 authorized the Secretary of the Army, on the recommendation of the

Chief of Engineers, to grant permission for the alteration or occupation or use of a public interest and will not impair the usefulness of the project. The Secretary of Army's authority under Section 408 has been delegated to the USACE, Chief of Engineers. The USACE Chief of Engineers has further delegated the authority to the USACE, Directorate of Civil Works and Division and District Engineers, depending upon the nature of the activity.

LIMITS OF SECTION 408 AUTHORITY: A requester has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Section 404 of the Clean Water Act (33 U.S.C. Section 1344), and/or Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413). In addition, an approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

EVALUATION FACTORS: The decision whether to grant the requested permission for project alteration under Section 408 will be based upon several factors. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. Review of requests for alteration will be reviewed by a USACE technical review team considering the following factors:

1) Impair the Usefulness of the Project Determination. The review team will determine if the proposed alteration would limit the ability of the USACE project to function as authorized, or would compromise or change any authorized project conditions, purposes, or outputs. In order for an alteration to be approved, the Requester must demonstrate that the alteration does not impair the usefulness of the federally authorized project.

2) Injurious to the Public Interest Determination. Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Factors that may be relevant to the public interest evaluation depend upon the type of USACE project being altered and the nature of the proposed alteration and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. This evaluation will consider information received from the interested parties, including tribes, agencies, and the public. The benefits that reasonably may be expected to accrue from the proposal must be compared against its reasonably foreseeable detriments. The decision whether to approve an alteration will be determined by the consideration of whether

benefits are commensurate with risks and by the net impact of the alteration on the public interest using the public interest factors.

3) Environmental Compliance. A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While USACE is responsible for ensuring environmental compliance, the requester is responsible for providing all information that the Little Rock District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and procedures. NEPA and other analysis completed to comply with other environmental statutes (e.g., Endangered Species Act) should be commensurate with the scale and potential effects of the activity that would alter the USACE project. The Little Rock District will work with the requester to determine the requirements, which will be scaled to the likely impacts of the proposed alteration and should convey the relevant considerations and impacts in a concise and effective manner.

PUBLIC INVOLVEMENT: The purpose of this notice is to solicit comments from the public; federal, state, and local agencies and officials; tribes; and other interested parties regarding the proposed project. Comments received within the comment period of this notice will be used in the evaluation of potential impacts of the proposed action on important resources and in the evaluation of whether the proposed alteration would be injurious to the public interest and/or would impair the usefulness of the authorized project. Please limit comments to the area of the alteration and those adjacent areas that would be directly or indirectly affected by proposed highway interchange expansion.

SUBMITTING COMMENTS: Written comments, referencing Identification Number 408-SWL-2022-0009 must be submitted to the office listed below on or before close of business, August 24, 2024.

Jaysson Funkhouser, Program Manager – Section 408 Coordinator
U.S. Army Corps of Engineers, Little Rock District
700 West Capital
Little Rock, Arkansas 72203-3225

Email: jaysson.e.funkhouser@usace.army.mil

Attachment 1. Project vicinity.

Attachment 2: Applicant’s Section 408 request package

Section 408 Summary Report

I-49 (Hwy. 22 to I-40)

Crawford and Sebastian Counties, Arkansas

May 2024

Job 040748

ARDOT
ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

April 15, 2024

Jared D. Wiley, PE
Chief Engineer – Preconstruction
Arkansas Department of Transportation
P.O. Box 2261, Little Rock, AR 72203

RE: I-49 (Hwy 22 to I-40) Sebastian and Crawford Counties, Arkansas – Statement of No Objection

Dear Mr. Wiley

The Crawford County Levee System is a Federal Emergency Management Agency (FEMA) accredited levee system along the northern side of the Arkansas River floodplain immediately downstream of the James W. Trimble Lock and Dam. The levee was authorized in 1936 and constructed between 1947 and 1950. The levee system is operated and maintained by the Crawford County Levee District.

We understand the Arkansas Department of Transportation (ARDOT) is requesting a new crossing of the Arkansas River, now considered Interstate 49 (I-49) dating back to a Feasibility Study on US 71 completed in 1997. In Spring 2022, The Crawford County Levee District issued bridge crossing specifications to ARDOT, essentially initiating the recent coordination on this project. ARDOT began discussing with the Levee District the need for the US Army Corps of Engineers (USACE) permission under 33 USC Section 408 (Section 408) for the proposed I-49 crossing of the Arkansas River and Crawford County Levee District No. 1 Arkansas River Levee.

ARDOT representatives met with members of our Board on February 28, 2023, to explain the scope of the I-49 Project and the content/review requirements of the Section 408 submittal package as it relates to the crossing of the Arkansas River and the Crawford County Levee District Levee. ARDOT provided the Crawford County Levee District with a copy of the Section 408 Submittal, dated July 2023. Subsequently, the board met with ARDOT representatives again on January 30, 2024, where an overview of the Section 408 updates and comment resolutions were discussed and explained.

The Crawford County Levee District understands the scope of the I-49 Project and Section 408 Submittal. The Levee District understands USACE subject matter experts review the Section 408 technical data to confirm the I-49 project is not injurious to the flood reduction project (Crawford County Levee District No. 1 Arkansas River Levee). USACE has provided us the Memorandum for Record (MFR) memorializing their findings and conclusions from review of the technical data developed by ARDOT and included in the initial Section 408 Submittal.

As the local, non-federal sponsor of the Crawford County Levee District No. 1 Arkansas River Levee, the Crawford County Levee District Board has no objection to ARDOT's transmittal of the final Section 408 Submittal to the USACE for review and record of decision.

If you have any questions, please feel free to contact us.

Sincerely,
Rick Wilkins

Crawford County Levee District

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1 INTRODUCTION

The Arkansas Department of Transportation (ARDOT) is proposing to construct a segment of Interstate 49 (I-49) from Highway 22 in Sebastian County to I-40 in Crawford County, a length of approximately 14.4 miles. This proposed corridor is part of a congressionally designated High Priority Corridor running from Shreveport, Louisiana to Kansas City, Missouri. I-49 has been under construction since the early 1990s, with both segments immediately north and south of this project fully constructed. This project will complete a critical section of the interstate between Highway 22 and I-40. The project will improve system linkage for a north/south national interstate corridor, accommodate safe travel and improve connectivity. The overall project location is depicted in Figure 1.

Figure 1: Project Location Map

Source: Project Team 2023

1.1 Purpose and Need

The proposed project is needed to complete a vital section of the larger I-49 national interstate corridor which is Congressionally designated as High Priority Corridor 1. The proposed project is needed to provide linkage and modal connectivity to the surrounding interstate highway system. This includes links to both the surrounding I-49 corridor sections already completed and a critical link to I-40, resulting in increased mobility through the region and enhanced modal connectivity.

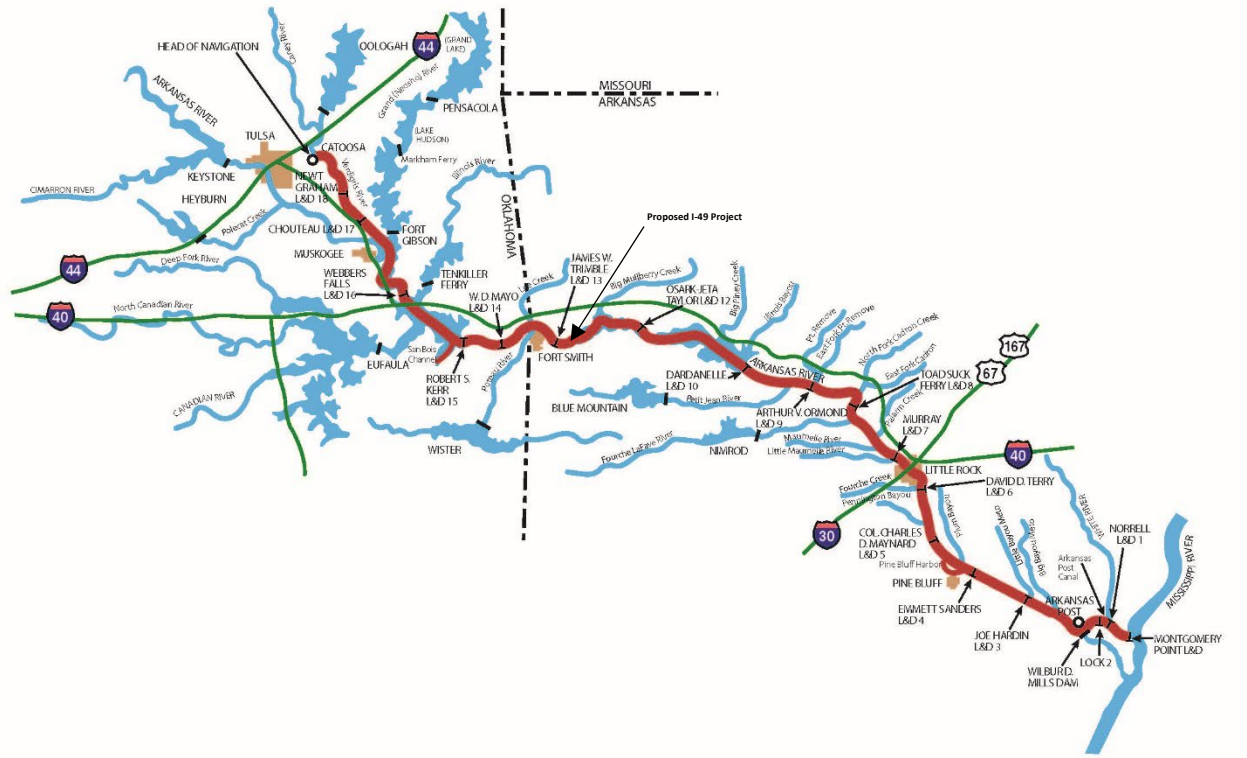
The proposed project is also needed to address safety issues associated with increasing volumes of vehicular traffic in northwest Arkansas. The proposed project would provide an alternate route around Fort Smith, Arkansas, for those traveling north/south through the area. Traffic diverted to the new interstate would experience less congestion than it would using the existing transportation network; additionally existing facilities that traffic is diverted from, including I-40 between I-540 and I-49, would also experience less congestion. It is anticipated that the improved operations resulting from the diversion would reduce the amount of rear end crashes, which accounted for 22% of all crashes in the study area (2015-2019). Additionally, the proposed project, including the new bridge over the Arkansas River, would be constructed to meet the latest design standards and would be a safer facility than the existing three river crossings, which all have shoulders narrower than current design standards. The Arkansas River crossing closest to the proposed project on Highway 59 is a two-lane, undivided highway with reduced shoulders. This type of facility had a statewide average KA crash rate approximately three times greater than the facility type proposed at the new river crossing.

Overall, the new facility and river crossing would provide safer conditions for the traveling public.

1.2 History and Description of Federal Project

The proposed project corridor and affiliated structures include alterations to the McClellan-Kerr Arkansas River Navigation System (MKARNS). The MKARNS is a 445-mile navigation channel beginning at the White and Mississippi River confluence in eastern Arkansas, crossing the states of Arkansas and Oklahoma via the Arkansas River to the Verdigris River near Tulsa, Oklahoma. The MKARNS was officially opened in June 1971 and is operated by the US Army Corps of Engineers (USACE). A system of 17 locks and dams converted it to a commercially navigable body of water despite an elevation difference of 420 feet. The MKARNS can be seen in Figure 2.

Figure 2: McClellan-Kerr Arkansas River Navigation System

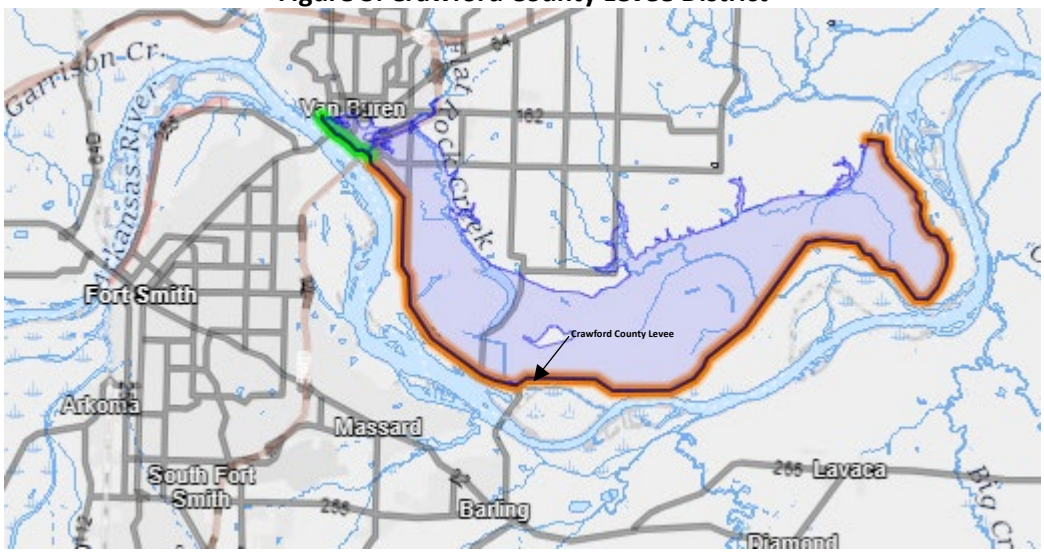


Source: USACE Tulsa District 2023

Lock and dam reservoirs provide no floodwater storage allocation, therefore the flood risk management of the MKARNS system relies on a larger system operation including reservoir discharge and flowage easements, as well as multiple levee systems. Flowage easements were acquired along the MKARNS to allow the government the perpetual right to flood privately owned land up to a specific contour elevation, if necessary, for operation of the MKARNS.

The Crawford County Levee System is a Federal Emergency Management Agency (FEMA) accredited levee system along the northern side of the Arkansas River floodplain immediately downstream of the James W. Trimble Lock and Dam. The levee was authorized in 1936 and constructed between 1947 and 1950. The levee is approximately 19.7 miles in length, averaging 15 feet in height with a crown width of 10 feet and 1V:3H side slopes. Per the USACE Operations & Maintenance Manual, the levee provides a top elevation 1.5 feet above the water level of a flood reaching 42.2 feet on the Van Buren gage. Historically the levee system has performed well, but there are some uncertainties around aged culverts and embankment seepage. In 2019, the system was loaded to over 80% (per the National Levee Database) and seepage and slope slide due to seepage were observed on the system. The seepage was mitigated and repaired under Public Law 84-99. The levee system is operated and maintained by the Crawford County Levee District. The levee system is shown in Figure 3.

Figure 3: Crawford County Levee District



Source: National Levee Database

1.3 Description of Modification

I-49 is primarily proposed as a four-lane divided, fully access controlled, high-speed facility with an 80-foot wide median and shoulders. The proposed project includes a bridge and embankment crossing of the Arkansas River (Bridge 07684 referred to in this report as Bridge 1) and its associated floodplains and a bridge crossing of the Crawford County Levee System (Bridge 07685 referred to in this report as Bridge 16) approximately one mile downstream of the James W. Trimble Lock and Dam. This crossing location also includes impacts to Fort Chaffee Maneuver Training Center. The typical section across the river, floodplain and levee on both bridge and embankment is a four-lane divided section, but with concrete barrier and shoulders creating a 16-foot wide median. The overall right-of-way width varies but is typically 460 feet across the Arkansas River floodplain and Crawford County Levee. Additionally, the MKARNS includes flowage easements within and outside the Arkansas River floodplain which will be assessed for impacts and mitigation for approval. The Mays Branch and Frog Bayou flowage easement areas also include bridge crossings, Bridge 2 and Bridge 7 respectively. See Figure 4 for a depiction of these impacted areas.

Figure 4: Project Limits

Source: Project Team 2023

1.4 Summary of Other Proposed Improvements in the Vicinity of the Project

The Western Arkansas Intermodal Authority (WAIA) has developed a Concept Plan Study Report for harbor development, upland development and rail/highway access for the proposed development of the Western Arkansas Intermodal Facility. One of the concepts under consideration includes railroad connections to/from the Union Pacific Railroad parallel to Gun Club Road at the proposed I-49 crossing. The design and future Section 408 coordination for this railroad will be completed by others, however it was important for the I-49 project to accommodate up to two future tracks between the Crawford County Levee and Gun Club Road. To accomplish this, the bridge over the Crawford County Levee was expanded by one additional span to raise the profile to provide the required vertical clearance over the future railroad. Correspondence between ARDOT and the Western Arkansas Planning and Development District regarding these accommodations can be found as Exhibit F-1 in Appendix F.

The City of Fort Smith is proposing a waterline in the future parallel to I-49 across the Arkansas River floodplain. The final alignment and design are not yet completed. ARDOT agreed to incorporate a 36-inch waterline on the Arkansas River Bridge for future use by the City of Fort Smith. It will extend approximately 1,600 feet on the bridge and be located within the superstructure, between the girders and attached to the top of the piers. An inspection catwalk will also be provided in the same bay as the waterline. Access will be provided via a ladder and platform accessible from a snooper truck below the bridge. The design and future Section 408 coordination for this waterline for the remaining length within the floodplain and across the Crawford County Levee will be completed by others.

2 TECHNICAL ANALYSES AND ADEQUACY OF DESIGN

2.1 Geotechnical Design

Geotechnical analyses were performed for the existing Crawford County Levee and proposed bridges (Bridge 1 and Bridge 16) in accordance with the Engineering Circular EC 1165-2-220 as a part of the documentation required for the 408 Submittal. The draft version of EM 1110-2-1913 was used as guidance and criteria for evaluation of the levee geotechnical analyses and AASHTO Bridge Design Specifications, 17th Edition was used as criteria for bridge abutment slope global stability.

The full geotechnical report and analyses included in Appendix A contains global stability analyses at the abutment end slopes and side slopes of the bridges that crosses the Arkansas River (Bridge 1) and the Crawford County Levee (Bridge 16), as well as analysis on the existing Crawford County Levee. Geotechnical evaluation of the existing levee includes global stability of the levee slopes and levee underseepage considering the proposed drilled shaft penetrations that will support bridge piers that span the existing levee. In addition, underseepage evaluation was performed at the ditches of Gun Club Road.

2.1.1 Geotechnical Analysis Results

2.1.1.1 Bridges 1 and 16

Bridge 1 and 16 global stability analysis showed that the factor of safety is adequate for the end and side slopes. Regarding settlement of the embankment for Bridges 1 and 16, it is estimated that settlement

will be on the order of 11 to 13 inches. To mitigate this predicted settlement, the embankments are planned to be allowed to settle over a period of time prior to construction of the bridges.

2.1.1.2 Levee Underseepage and Global Stability

Bridge 16 spans the existing levee that will be supported on drilled shafts located about 30 feet from the landside and riverside levee toes. Underseepage evaluation of the levee with and without proposed drilled shaft penetrations as well as evaluation of underseepage at the proposed ditches along Gun Club Road was performed. The existing semi-impervious blanket of the Crawford County Levee at the centerline of the I- 49 bridge is adequate and shows no boils or heave mitigation is required. In addition, global stability (steady state and rapid drawdown) calculations were performed for the existing levee cross section. The factor of safety against underseepage and global stability of levee (steady state and rapid drawdown) meet the requirements of the draft version of EM 1110-2-1913.

2.2 Civil and Structural Design

The limits of the Section 408 request are shown previously on Figure 4. This includes the construction of multiple bridges and highway embankment within the Arkansas River floodplain, across the Crawford County Levee and multiple flowage easements. The project does impact the flowage easements and will require mitigation to create new storage below the specified contour. The details on the flowage easement mitigation is described in more detail in Section 2.3.4. The current design plans can be found in Appendix B1.

Bridge layouts for the bridges that impact the Section 408 limits are shown in Appendix B2 and are Bridges 1, 16, 2 and 7. Bridge 2 spans Mays Branch and Bridge 7 spans Frog Bayou. The bents at Bridges 2 and 7 are placed to span over the underlying water features. There are two bridges that will be constructed within the Arkansas River floodplain, and they are Bridges 1 and 16. Bridge 1 spans the Arkansas River and Bridge 16 spans Flat Rock Creek, the Crawford County Levee and Gun Club Road. Flat Rock Creek is a relief waterway for out of bank Arkansas River flood events located between the Arkansas River and the Crawford County Levee. Between Bridges 1 and 16, within the Arkansas River floodplain, the project is proposed to be constructed on embankment. The embankment section includes rock fill up to Elevation 403.

Bridge 1 and 16 will be constructed with similar methods and will have a steel and concrete alternate design for the superstructure girders and will be founded on drilled shafts. Bridge 1 will have three columns and drilled shafts per bent and Bridge 16 will have between three and four columns and drilled shafts per bent. There is a drawing for each of these bridges that indicates the permanent impacts to the area. These drawings are located in Appendix B3. Each of the end bents will be supported on H-Piles and will have a dumped riprap slope protection as determined in the hydraulic analysis.

Except for a few locations noted below, the deck drainage will be allowed to free fall off the bridge deck through the slotted barriers. There are two different types of expansion joints used on the project and include a closed expansion joint or an open expansion joint. For the closed expansion joint, the deck drainage is allowed to pass over the expansion joint. These joints are the strip seals or the modular joints. The open expansion joint allows water the fall through the deck joint and into a drainage system. The open expansion joints are the finger expansion joints. For the open expansion joints, the deck drainage will fall into a drainage trough and will free fall from the expansion joint to the ground.

2.2.1 Bridge 1 – Arkansas River Bridge

For Bridge 1, the area over Springhill Park will require a closed drainage system. In this area, the slots in the barriers will be plugged with concrete to avoid runoff falling onto park property. Runoff will be allowed to free fall from the slots once it passes the Springhill Park Boundary and P Street. Deck drains will be added at the locations needed for design over Springhill Park and piped to the nearest pier. The piping will continue down the columns and will be collected in an underground pipe that will carry the water outside the limits of Springhill Park. See Appendix B3 for deck drain details. Within the limits of the park, there are two expansion joints. The expansion joint at Bent 12 will be a modular joint and is a closed expansion joint. Runoff will pass over the joint and flow to the next open area. Bent 8 will be a finger plate expansion joint and will have an open drainage system. The stormwater runoff that falls through the joint will be collected and piped to the underground pipe. The outlet will not be on the Springhill Park property.

There is an existing trail that is present and currently loops in and out of the proposed bridge piers. To increase safety, the trail near Bents 8 through 11 will be relocated by others.

There is an existing USACE revetment along the south bank of the river. The proposed Bent 13 will penetrate this revetment. It will be restored with appropriate revetment as determined in the hydraulic analysis. See Appendix B3 for the limits and details of the revetment, and additional assumed construction information on the revetment in Section 2.4. ArDOT is drafting an MOU (memorandum of understanding) for USACE, to establish roles and responsibilities related to the maintenance of the revetment in the vicinity of this pier.

The proposed bridge location will span the Arkansas River also known as the MKARNS. This is a navigable waterway and coordination with the United States Coast Guard (USCG) has been ongoing. The bridge geometry allows for the navigation clearances provided by the USCG.

The USACE SWL website includes information on the “MKARNS 12-Foot Channel” proposing locations where dredging is expected, and the Appendix B Map Book, dated January 2024, in Map 16 of 47 (PDF page 18 of 49), it does not show any dredging within the extents of the proposed I-49 crossing. The nearest dredge is at the outlet of the Trimble lock, which is not expected to affect our waterway opening. The current channel depth at the bridge site is 15 feet measured from the normal pool elevation of 370.00 to the bottom of the channel. No additional excavation around the bridge piers is needed.

The increased depth of the channel will allow for barges with more weight and could increase the vessel collision force that is applied to the pier. The pier is currently designed in accordance with *AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020 and AASHTO Guide Specifications and Commentary for Vessel Collision Design of Highway Bridges, Second Edition, with 2010 interims.* The vessel draft specified in AASHTO is 9-foot for the jumbo hopper barge on all inland rivers including the Mississippi River. When the code is updated for the new capacity of the river (deeper draft), the vessel collision calculations can be updated, and the pier checked for the larger force. Additional dolphin protection can be added to protect the pier if needed. See Appendix B4 for the Vessel Collision Report for more information.

The main river unit, Bents 12 through 16, will support a 36-inch diameter waterline and will be placed in the center if the bridge under the median barrier. The waterline will run from the riverside of Bent 12 to

the riverside of Bent 16. The steel waterline will be installed and connected to the steel girders and turn the corner to and will be attached to the top of the piers. The remainder of the waterline will be installed in a future contract by others. A catwalk for maintenance use will be installed in the same bay as the waterline. There will be catwalks installed to the face of Bent 12 and 16 to allow access to the waterline. The catwalks will be accessed from ground level via a mobile elevating work platform to a ladder permanently affixed to the bent about 20-25 feet in the air.

2.2.1.1 USCG Coordination and Clearances

The new bridge will cross over the Arkansas River (MKARNS) near river mile 291.6 and is a navigable river. The USCG provided initial navigational clearances on 24 January 1997 and 21 February 2018, which specified a vertical and horizontal clearance. The vertical clearance was defined as 52 feet above elevation 389.3. The horizontal clearance was set at 500 feet from the face of the left descending channel pier to the intersection of normal pool (Elevation 370.00) and the right descending bank (south bank). A navigation study by Seamen's Church Institute was performed and it was determined that the horizontal navigation clearance could be reduced to 400 feet. The Seaman's Church Institute Navigation Study can be found in Appendix B5. The USCG reissued the required clearances in a letter dated 31 January 2022. All three letters from the USCG can be found as Exhibits F-2, F-3 and F-4 in Appendix F.

2.2.1.2 Fence over Springhill Park

The new bridge will cross over Springhill Park. A chain link fence will be provided on the east and west bridge barrier over the park as shown in the Bridge Layouts found in Appendix B2.

2.2.2 Bridge 16 – Crawford County Levee Bridge

Bridge 16 spans over Flat Rock Creek, the Crawford County Levee and Gun Club Road. The proposed bents span the limits of Flat Rock Creek and the levee. The clear distance from the approximate toe of the levee and Bent 12 is approximately 30 feet and the clear distance from the approximate toe of the levee to Bent 13 is approximately 28 feet. As directed by Crawford County Levee District, there is a 6 inch concrete slope protection (riprap) that will be installed over the levee as detailed in Appendix B3. The paved concrete slope protection will extend from 25 feet south of Bent 12 on the south side of the levee to the toe of the levee on the north side as depicted in the Bridge 16 layout in Appendix B2 and B3. The riprap will extend 10 feet to the east and west of the outline of the bridge.

The slots in the barriers will be blocked between Bents 12 and 15 to keep stormwater runoff from falling on the levee, over the potential future railroad track and Gun Club Road. Deck drains are being piped to the adjacent pier and outlet one-foot above ground at the base of the columns. Bent 12 will have one outlet pipe and will discharge on the concrete slope paving that extends around the bent with a riprap splash pad located at the bottom of the slope paving. See Appendix B3 for deck drain details. Bent 13 has a finger plate expansion joint and is an open drain system. Runoff from this joint will be piped down Bent 13 and outlet one foot above the ground line. The piping systems will outlet onto a riprap splash pad at the base of the column.

2.2.2.1 Crawford County Levee District Coordination

ARDOT received written specification requirements from the Crawford County Levee District Board in April 2022. The design team considered these requests and incorporated them where feasible. The team replied to the Levee District Board in a letter dated 15 September 2022 with a request to reduce the restrictions of a couple of items based on engineering standard of care that would be assessed through

technical review as part of this Section 408 process. A copy of these letters can be found as Exhibit F-5 in Appendix F. The guidelines outlined include a minimum 15-foot vertical clearance over the levee, a minimum 25-foot horizontal clearance from the levee toe and reinforced levee slopes under the bridge footprint.

2.3 Hydraulic and Hydrologic Design

2.3.1 Assessment by Location

For Hydrologic and Hydraulic conditions, this project was separately assessed based on two (2) conditions of waterway influence:

- Arkansas River
- Non-Arkansas River

2.3.2 Requirements

This assessment of the proposed project conditions, regarding hydrology and hydraulics, is based on the Appendix H – Hydrologic and Hydraulic System Analysis of EC 1165-2-220 dated 10 September 18, as received from USACE Little Rock District (SWL) on 8 April 22.

For the Arkansas River, there were also conditions assessed regarding the Trimble Dam and the adjacent levees (associated with guidance in Appendix E – Dams and Levees of EC 1165-2-220) and the waterway lock and associated revetments and jetties (associated with Appendix G – Navigation Channels, Harbors, Locks, Jetties, Bridges, and Features of EC 1165-2-220). In the left (north) overbank of the Arkansas River at the proposed bridge crossing, Flat Rock Creek serves as a relief waterway conveying overbank flows.

For the non-Arkansas River locations, conditions were assessed at all locations where drainage features crossed the proposed project. Special attention was given to the interior drainage and culvert under the Crawford County Levee adjacent to Gun Club Road.

Throughout the project, affected existing flowage easements boundaries were provided by the USACE. These boundaries were analyzed for fill placement and appropriate mitigation measures were proposed.

2.3.3 Arkansas River

2.3.3.1 Hydrology

The proposed project is not expected to affect the hydrologic conditions. The Arkansas River's Hydrographic timing is controlled by the channel itself, and the earthen embankment and bridge piers are mostly within overbank where conveyance is relatively low.

2.3.3.2 Hydraulics

Impacts regarding hydraulics were evaluated based on the five (5) required steps, for the 408 process, generally outlined as follows:

- Step 1 – define the spatial extent
- Step 2 – identify authorized features
- Step 3 – collect authorized purpose of features
- Step 4 – assess the hydraulic results with the proposed alteration

- Step 5 – determine the changes in hydraulic conditions for indexed locations

The design team closely collaborated with USACE SWL, to understand authorized infrastructure in the proximity of the project. Each step has been followed to meet the expected requirements. A HEC-RAS 1D model was used to assess the hydraulic conditions for FEMA compliance and tree clearing to mitigate rise, and a HEC-RAS 2D model was used to assess the hydraulics conditions for USACE compliance.

2.3.3.3 Conclusion

The hydrologic and hydraulic effects of the I-49 project on the Arkansas River and its related authorized features were determined to be minimal, and the only mitigation was increasing the gradation of the revetment in the vicinity of Bridge 1 – Bent 13 (Pier 12) on the right (south) bank line.

The details of this assessment can be found in Appendix C1 of this report.

2.3.4 Non-Arkansas River

2.3.4.1 Hydrology

The proposed project is not expected to adversely affect the hydrologic conditions for the non-Arkansas River areas. Hydrologic analysis for each water crossing has been done. Culverts/bridges have been designed so as not to affect the existing Water Surface Elevations (WSE). A pre and post hydrologic analysis was performed on the interior drainage area for the existing 24 inch culvert under the Crawford County Levee to confirm the proposed facility does not increase flow.

2.3.4.2 Hydraulics

Based on the required steps hydraulic analysis was done for each water crossing. The proposed project is not expected to adversely affect the hydrologic conditions the water crossings for the non-Arkansas River areas. The existing 24 inch culvert under the Crawford County Levee was analyzed and no impacts to it were observed. See Appendix C2 for more details. Flowage easement areas were evaluated and the volume of any embankment fill and/or bridge piers being placed within existing easement areas were mitigated by excavating adjacent areas for no net loss in storage volume. See Appendix C3 for more details.

2.3.4.3 Conclusion

The hydrologic and hydraulic effects of the I-49 project on the non-Arkansas River area were determined to be minimal, and the only anticipated mitigation is for the flowage easement areas where fill is being placed. There will also be no impact to the 24 inch culvert under the Levee.

The details of this assessment can be found in Appendix C2 and C3 of this report.

2.4 Construction Considerations

Construction methods will ultimately be up to the I-49 project contractor. Construction methodology and temporary construction impacts have been assumed and summarized below so that impacts to the hydraulics and the environment, as well as operations and maintenance of the system could be assessed. The contractor will be required to obtain approval of all temporary work prior to construction.

2.4.1 Bridge 1 – Arkansas River Bridge

A potential way the contractor may choose to erect the bridge and the impacts to the federal project are shown in Appendix D. The image depicts a temporary embankment that will be installed on the east side of the bridge to allow the contractor to perform the work in the river from the north bank. The embankment dimensions shown were incorporated into the hydraulic model and the results are shown in Appendix C1. Additional assumptions were made for the temporary falsework towers used to erect the river unit, Bents 12 to 16.

2.4.1.1 USCG Coordination and Construction Considerations

The design team met with the USCG on 3 October 2022 to present a conceptual approach as to how the contractor may propose to construct the bridge. In this scenario, the bridge would be erected with barge mounted cranes. The contractor may propose to install a mooring facility along the north bank and use a temporary platform located along the left descending bank (north bank). The platform will be used to load material onto barges and transport for erection over the navigation channel. The USCG indicated short navigational closures such as a 6-8 hour windows would be allowed. The contractor will be responsible for requesting and obtaining approval from the USCG for navigational closures during the construction phase of the project.

The south bank pier (Bent 13) will be erected through the existing stone revetment. The contractor may propose to utilize a benched trench box excavation to remove the stone revetment to top of rock to be able to install the casing, drilled shafts and the strut. The affected revetment will be replaced with a larger gradation as discussed in Appendix C1 and shown in Appendix B3. Construction of Bent 14, the left descending pier defining the navigation channel, may require a cofferdam. This will cut into the navigational clearance requirements and the USCG has provided a preliminary reduced clearance during construction, see Exhibit F-6 in Appendix F. A minimum temporary clearance of 325 feet with a 50 foot maximum encroachment from the right descending bank (south bank) would be allowed as shown in Appendix B3.

Any temporary obstructions in the river channel will require approval and a temporary lighting plan. The contractor will be responsible for requesting and obtaining approval from the USCG for any temporary impacts to the navigational channel during the construction phase of the project.

2.4.2 Bridge 16 – Crawford County Levee Bridge

A low water crossing over Flat Rock Creek will likely be proposed by the contractor. This crossing will allow the contractor to gain access to the bridge between the levee and Flat Rock Creek and reduce the traffic crossing the levee. A low water crossing concept is shown in Appendix D.

2.4.3 Bridge 2 – Mays Branch Bridge

Bridge 2 spans Mays Branch and is anticipated to be erected on the land. Access or temporary crossings are not anticipated. An access road is assumed to be located between the two bridges with access provided from the road. The assumed concept is shown in Appendix D.

2.4.4 Bridge 7 – Frog Bayou Bridge

Bridge 7 spans over Frog Bayou. The bents are placed at the edge of the creek with steep embankments. The contractor will likely propose temporary embankments within the bayou to facilitate installation of the drilled shafts. The assumed concept is shown in Appendix D.

3 ENVIRONMENTAL AND CULTURAL RESOURCES COMPLIANCE

3.1 Background

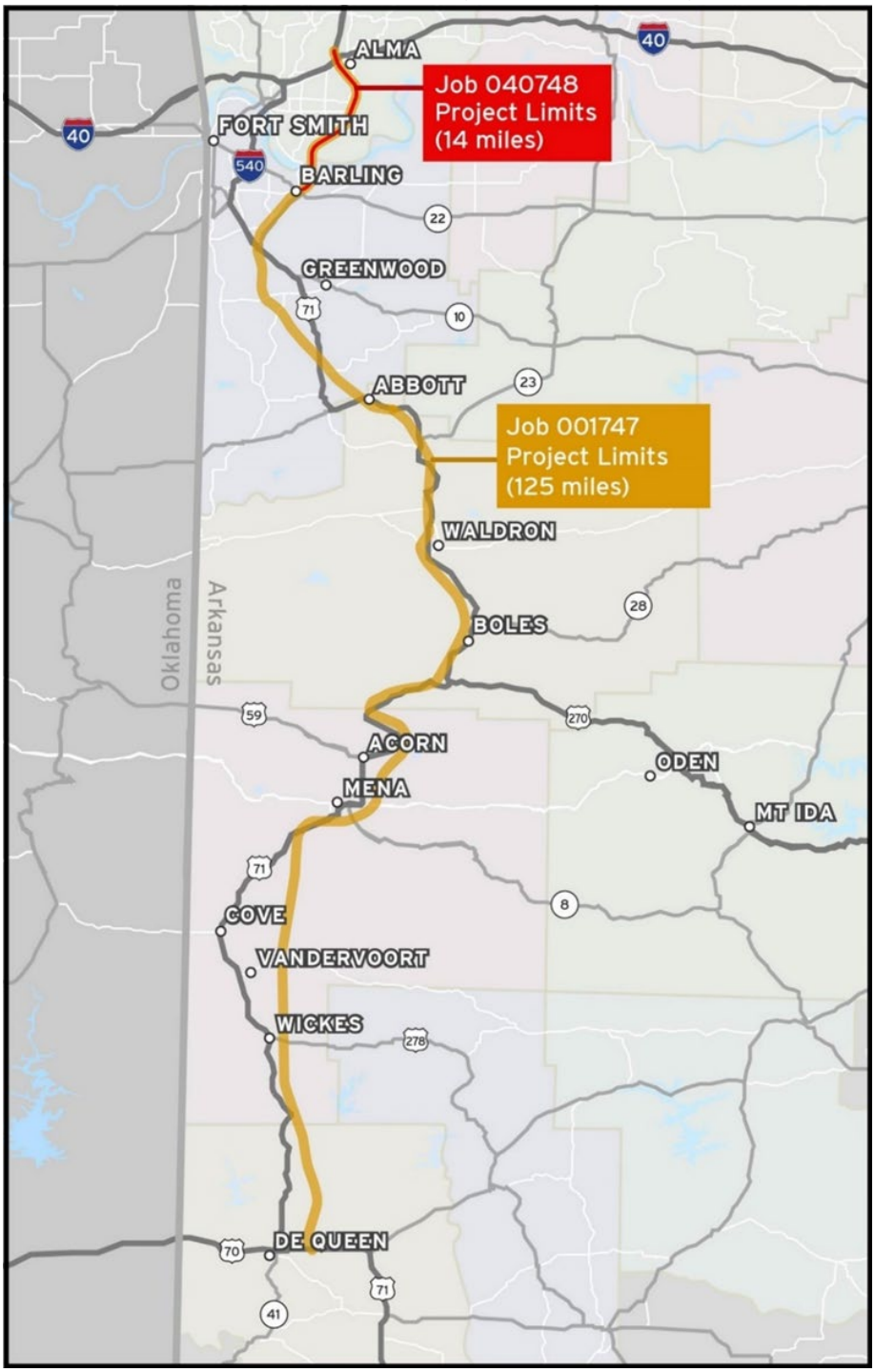
The new location crossings over the Arkansas River and associated 100-year floodplain and flowage easements were originally part of a larger environmental study known as the U.S. 71 Relocation DeQueen to Interstate 40, ARDOT Job 001747. That study extended from Highway 70 in DeQueen, Arkansas to Interstate 40 near Alma, Arkansas, a distance of approximately 125 miles. A Final Environmental Impact Statement (FEIS) was prepared for the U.S. 71 Relocation Project and a Record of Decision (ROD) was issued in December 1997 approving the general alignment of a new location, four-lane highway in western Arkansas. The 1997 FEIS project limits are shown in Figure 5.

As a priority project for ARDOT, a re-evaluation was initiated for an approximate 14-mile section of Interstate 49 from Highway 22 in Sebastian County to Interstate 40 in Crawford County, with funding allocated in the current Statewide Transportation Improvement Program (STIP). The re-evaluation study limits, ARDOT Job 040748, are shown in Figure 5. The re-evaluation discusses design refinements and environmental analyses of impacts and benefits of the preliminary design to determine whether any additional NEPA documentation is warranted or if the previous findings described in the ROD remain valid. The re-evaluation describes the proposed project, purpose and need, environmental impacts, commitments, and public involvement.

The re-evaluation was prepared in accordance with NEPA, and all other applicable Federal and state laws and regulations, specifically 23 Code of Federal Regulations (CFR) § 771.129. ARDOT is required to complete a re-evaluation to update the analysis in prior NEPA documents when there are changes to the project which could affect the previous determination of potential environmental impacts. In a letter dated July 22, 2021, the USACE agreed to serve as a cooperating agency for re-evaluation of the FEIS as defined in 40 CFR § 1501.8.

A project footprint was utilized for assessing impacts to environmental resources. The project footprint includes the preliminary design and proposed right of way and encompasses all anticipated direct impact areas for the proposed project.

Figure 5: Project Limits for 1997 FEIS (ARDOT Job 001747) and 2023 Re-Evaluation (ARDOT Job 040748)



Sources: FEIS U.S. 71 Relocation Dequeen to Interstate 40, 1997; NEPA Re-evaluation U.S. 71 Relocation DeQueen to Interstate 40, 2023; Project Team, 2023

3.2 Environmental Impacts

No substantial direct, indirect, or cumulative environmental impacts beyond those covered in the 1997 FEIS are anticipated for community resources, cultural resources, Springhill Park, air quality, noise, visual, hazardous materials, important farmland, floodplains, streams and wetlands, water quality, protected species, and wildlife and habitat. Impacts to cultural and water resources are summarized below. Impacts to all environmental resources are detailed in Appendix E.

3.2.1 Cultural Resources

There are no historic structures and four archeological sites located within the Section 408 study area, with recommendations outlined in Table 1.

Table 1: Archeological Sites within the Section 408 Study Area

Archeological Site	Acres of Site within Section 408 Study Area	% of Archeological Site within Section 408 Study Area	Recommendation
3CW1354	0.15	2%	Avoidance recommended. Phase II testing if avoidance not possible
3CW1358	0.03	6%	No further work recommended
3CW0864/865	0.19	7%	Minimization of footprint of any future construction activity and monitoring during construction
3CW0880	0.25	4%	Monitoring during construction

3.2.2 Floodplains

Approximately 191.9 acres of FEMA 100-year floodplains are located within the Section 408 study area. Impacts to floodplains are primarily associated with the Arkansas River and its tributaries in Sebastian and Crawford Counties. To reduce the risk of a 100-year water surface rise within the floodplain at this location, removal of trees is needed. A tree removal area is planned just north of the Arkansas River on land currently owned by Fort Chaffee. Coordination with Fort Chaffee and the USACE is currently ongoing. The proposed action would incur flowage easement impacts at Mays Branch and Frog Bayou. To mitigate these impacts, excavation would occur within the flowage easement at each respective site.

3.2.3 Streams and Wetlands

Total permanent wetland impacts in the Section 408 study area are estimated at 5.85 acres. Total permanent water impacts in the Section 408 study area are estimated at 1,325 linear feet (1.05 acres). The permanent impacts would result from the bridge piers for bridges, culvert installation, and placement of fill for the road base and concrete road surface.

The total temporary wetland impacts in the Section 408 study area are estimated at 0 acres. The total temporary water impacts in the Section 408 study area are estimated at 652 linear feet (0.39 acres). Temporary impacts in the Section 408 study area are associated with temporary construction platforms and access roads. Temporary fills would be removed in their entirety and the area restored to pre-existing contours.

Final impacts to water and wetland features will be determined when the detailed project design has advanced (approximately 60% complete). A Standard (Individual) Permit would be submitted for the overall project, including the water and wetland features within the Section 408 study area. Compensatory mitigation will be provided at an approved mitigation bank that services the area. The functional assessment method used in determining compensatory mitigation requirements for wetlands in the Little Rock USACE District is the Charleston Method. The functional assessment method used in determining compensatory mitigation requirements for streams in the Little Rock USACE District is the Little Rock District Stream Method.

3.3 Environmental Commitments

3.3.1 Streams and Wetlands

The proposed project is in the service area of four mitigation banks with available mitigation credits. These are the Hartman Bottoms Mitigation Bank, Cadron Creek Mitigation Bank, Dutch Creek Mitigation Bank, and Gum Log Creek Mitigation Bank. The final mitigation credits would be determined during the Section 404 permitting process and the mitigation banks that would be used would be determined based on their available credits at that time. Construction should be allowed under the terms of a Section 404 Standard (Individual) Permit.

3.3.2 Water Quality

As this project requires a Section 404 Standard (Individual) Permit, ARDOT will request individual water quality certification from DEQ as part of the USACE 404 Permit public notice process. The Resident Engineer will ensure the Contractor understands the terms and requirements for protection of water quality.

The proposed project meets the definition of a “large construction site” and a SWPPP must be prepared and submitted to DEQ along with a Notice of Intent (NOI), and additional supporting documentation. When the SWPPP and NOI are deemed complete, DEQ will issue a Notice of Coverage (NOC). A Notice of Termination (NOT) must be submitted to DEQ when the project is completed and stabilized to end permit coverage.

3.3.3 Protected Species

Per USFWS concurrence presented in Appendix E, should any of the following occur, the Arkansas Ecological Services Field Office will be contacted and/or a new IPaC will be assessed if: the scope, timing, duration, or location of the proposed project changes; new information reveals the action may affect listed species or designated critical habitat; and/or a new species is listed or critical habitat designated.

3.3.4 Tree Clearing Area

To reduce the risk of a 100-year water surface rise within the floodplain at the Arkansas River, removal of trees is needed, and a tree removal area has been identified. All timber to be removed from federal land will be purchased based on a fair market appraisal conducted by the federal land management agency.

3.3.5 Springhill Park

Commitments described in the 1997 FEIS remain applicable to the proposed project and are being coordinated with the USACE. Table 2 presents the commitments established in the 1997 FEIS, and how that commitment would be implemented.

Table 2: Implementation of 1997 FEIS Springhill Park Section 4(f) Mitigation Measures

1997 FEIS Section 4(f) Mitigative Measure	How the Mitigative Measure Would be Implemented
(1) Four (4) camp sites and water fountain (not in use) would be relocated to another section within Springhill Park and the direction of the USACE to mitigate for potential noise impacts.	The 4 camp sites and water fountain would be relocated at a location to be determined by the USACE.
(2) Access to all existing park facilities would be maintained during all construction phases.	Access to all existing park facilities except Springhill Park Trail would be maintained, as the majority of the park facilities are located west of the project footprint. Springhill Park Trail was constructed subsequent to the FEIS and is discussed in Section 7.2 of Appendix E.
(3) The park would be entirely bridged so that the only land used in it is for the bridge substructure.	The park would be entirely bridged. There would be a total of 8 bridge bents, with no more than 4 bridge columns per bent for maximum total of 32 bridge columns within Springhill Park.
(4) Signing on the proposed highway directing the public to the park would be provided at the proposed SH 22 interchange or the SH 59 connector interchange north of the river. Signing would be provided from both directions. Signing would also be provided at appropriate state highways.	Signing would be provided in accordance with the USACE's recommended locations.
(5) A closed drainage system would be provided as the bridge crosses the park in order to protect the public from accidental spills.	A closed drainage system would be provided on the bridge over the park.
(6) Screens or other measures to protect the public from objects thrown or falling from the bridge would be provided.	Fencing would be provided on the bridge barriers over the park.
(7) The highway may change the future usage of the park from fishermen to travelers and vacationers. As a result, the USACE must maintain their ability to further develop the park on both sides of the proposed highway. The main paved road through the park which currently ends at the cul-de-sac would be relocated, if necessary, so that it may be extended east of the proposed highway.	The bridge substructure over the park would not impact the existing cul-de-sac.
(8) Any preconstruction activities, such as core borings, must receive prior right of entry approval by the USACE.	Right of entry approval would be obtained from the USACE for all preconstruction activities.
(9) Prior to bridge construction, fencing would be installed to prevent public access to the construction area. A gate would be provided in the fence, preferably near the cul-de-sac for USACE access to the undeveloped area of the park.	Fencing would be installed for the construction area prior to bridge construction. Signage would also be placed to identify the proposed project, as well as any safety signs required by the USACE.
(10) Access to the construction site to be used by construction vehicles, construction workers, materials deliveries and any other construction-related activities	Developed areas of the park would be avoided for contractor access. Per USACE approval, contractor access is anticipated from P Street on the south side of the park

1997 FEIS Section 4(f) Mitigative Measure	How the Mitigative Measure Would be Implemented
would not be through the developed areas of the park. Contractor access roads and work areas would be subject to USACE approval.	and from the river on the north side of the park.
(11) The cleared area for the bridge across the park would be minimized.	All trees that do not directly interfere with the proposed construction would be avoided. Care and discretion would be used to ensure that trees not removed shall also be avoided or harm would be minimized to the extent possible during the construction operations.
(12) Access for mowing would be of minimal width and gated from the public.	Access for mowing would be of minimal width. Coordination related to mowing access is ongoing with the USACE.
(13) All areas outside of the permanent easement which are disturbed during construction activities would be restored to their previous grades and revegetated with native species. Disturbed areas within the easement would be restored and seeded. Non-suitable materials from substructure excavation would be disposed of outside of the park in accordance with other disposal requirements.	It is anticipated that the permanent easement would be large enough for all construction activities. Disturbed areas within the easement would be restored and seeded with native species and per USACE guidelines.
(14) Any temporary items constructed for bridge erection would be removed in their entirety.	All temporary items constructed for bridge erection would be removed in their entirety and would be part of a temporary construction license through the USACE.

Sources: Section 4(f) Evaluation from FEIS U.S. 71 Relocation Dequeen to Interstate 40 (1997) and Project Team Meeting with the USACE (2 December 2021)

Since the 1997 FEIS, impacts to Springhill Park Trail were identified. Access to the trail in the construction zone would only be closed during construction of the proposed bridge to ensure the safety of trail users. Appropriate signage alerting trail users of the closure would be posted. In addition, impacts to permanent right-of-way would also be mitigated, as all trees that do not directly interfere with the proposed construction would be avoided and disturbed areas would be restored and seeded with native species per USACE guidance. Access to the park in the construction zone would be maintained for the USACE and fenced construction area signage would be provided.

In addition, the following mitigation measures would also be implemented per the request of the USACE:

- The relocation of four impacted campsites to an area near the E section restroom. These sites will be utilized for park volunteers and should be paved with graveled or concrete living areas. The sites should also be full hookup with water, 50-amp electric service, and sewer. Utilities are available at the nearby E section restroom.
- Resurface all paved roadways, parking areas, and campsites throughout the park.
- Destruction, removal, and replacement of the B section restroom. The replacement should be a “Four Pack” of family restroom/shower units. An example of this type of facility is the CXT Navajo model.
- Upgrade the 16 campsites in A section to 50-amp electric service.

All timber to be removed from federal land will be purchased based on a fair market appraisal conducted by the federal land management agency.

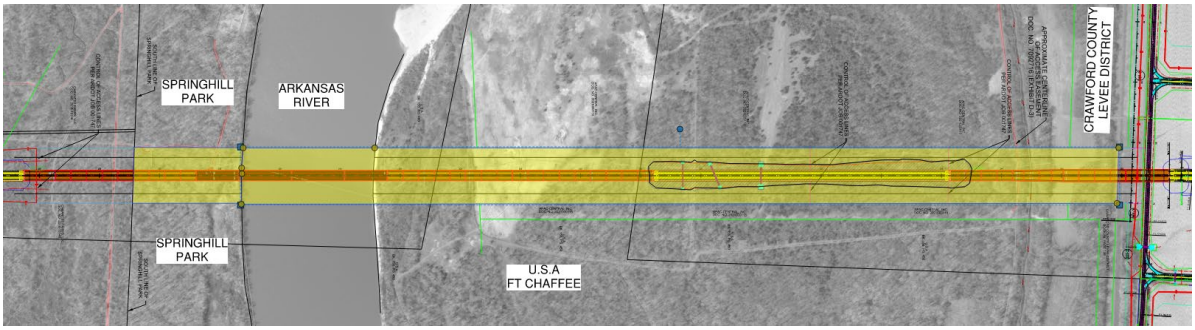
3.4 Environmental Findings and Conclusions

An FEIS was previously prepared for this project and ROD signed in August 1997. These documents have been reviewed and examined for content, accuracy, and overall scope of work regarding the project. The re-evaluation then examined the current project and the potentially affected environment since the issuance of the ROD. After a thorough review and reconsideration of these documents based on additional environmental studies and approvals, it was determined that all previous findings and decisions remain valid and that no new or additional significant impacts would result from the project. As a cooperating agency, the USACE formally adopts the findings and conclusions of the re-evaluation. Based on this determination, the subject project may continue to proceed.

4 REAL ESTATE

According to the deeds on record, ARDOT owns right of way across the floodplain, including across Springhill Park, the Arkansas River itself and across the Crawford County Levee, see Figure 6 below. During project coordination, USACE contended that they had lacked statutory authority to dispose of the right of way across the river, park and floodplains. USACE suggested a corrective deed and a consent to easement to resolve the ownership issue, which is pending.

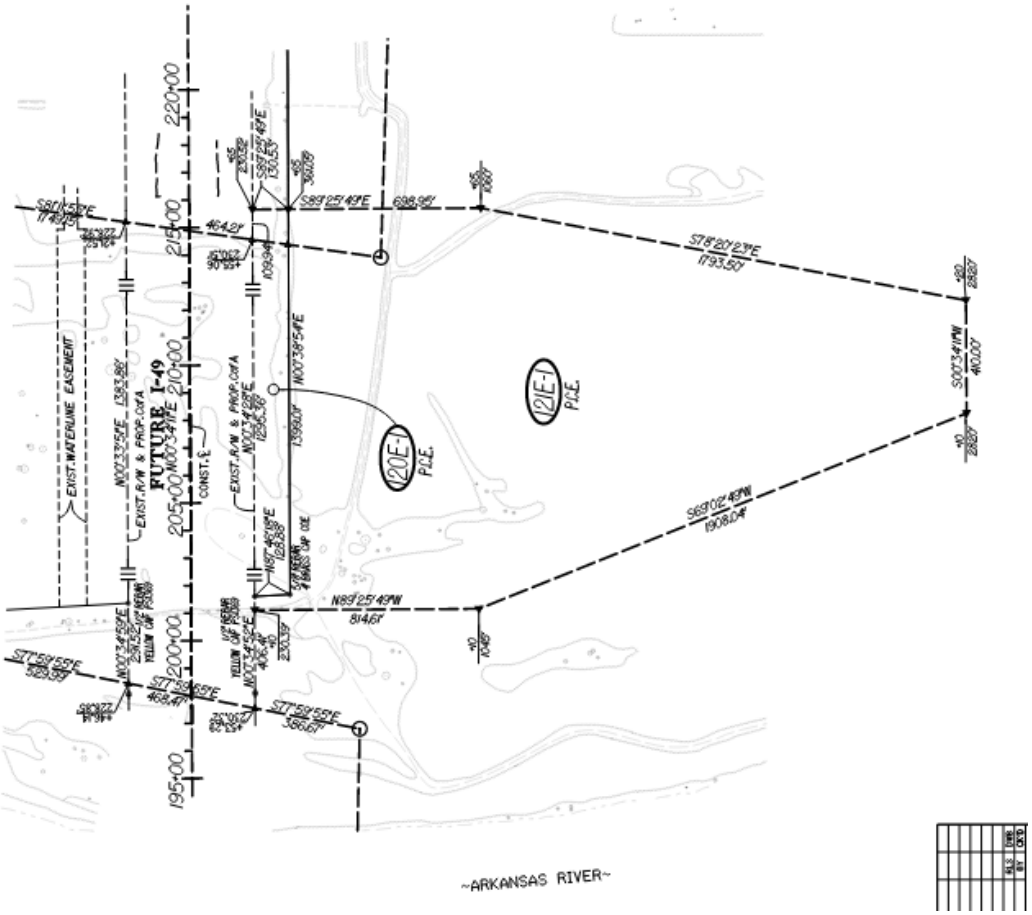
Figure 6: Arkansas River Floodplain ROW



Source: Project Team 2023

To reduce the risk of a rise in the 100-year flows of the Arkansas River, removal of trees in the floodplain was determined necessary through a separate 1D HEC-RAS analysis. The project team coordinated with USACE and leadership at Ft. Chaffee to determine an area that could be cleared and not impact the operations of Ft. Chaffee. Exhibit F-7 in Appendix F is a letter dated 13 May 2022 from the US National Guard indicating support for the tree clearing area, including their seeing the tree clearing as a betterment for the river crossing training and operations. ARDOT will be acquiring a permanent construction easement for the tree clearing of approximately 61 acres from the US Government (Ft. Chaffee) and approximately 4 acres from APAC-Central, Inc. See the Figure 7 for the proposed easement plan.

Figure 7: Proposed Tree Clearing Easements



Source: Project Team 2023

Flowage easements are perpetual easements within larger parcels that are defined as the area below a contour specified by USACE. Flowage easements are used to store water during a flood event. The mitigation is designed to remain within existing properties with already established flowage easement, therefore no additional permanent real estate impacts are anticipated. There are construction impacts to the flowage easement areas that will require ARDOT to secure temporary construction easements for grading in and around the flowage easements. In areas where ARDOT is acquiring right of way from the flowage easement properties, as perpetual easements they will also transfer with the acquired right of way.

5 OPERATIONS, MAINTENANCE, REPAIR, REPLACEMENT AND REHABILITATION (OMRR&R)

The proposed project alterations, when completed, will not impact permanent operation and maintenance of the federal project.

Other than the addition of slope and scour protection to the Crawford County Levee at the bridge crossing as shown in Appendix B3, there are no other direct permanent impacts to the system. However, during construction there will be a substantial amount of traffic and material transport of concrete,

rebar, bridge beams, embankment material, etc. over and around the levees and access roads; as well as construction of adjacent piers, slope protection and setting bridge girders. Maintenance roads may need to be temporarily relocated to maintain access, and the contractor will be required to maintain the condition of existing access roads, leaving them in the same or better condition than when the project begins. The contractor should coordinate directly with the Crawford County Levee District on proposed changes to their access to the levee system and floodplain.

At the conclusion of the construction project, ARDOT will update the Crawford County Levee O&M Manual with an appendix that includes details on the I-49 bridge crossing and as-built plans. Additionally, an MOU is under development between ARDOT and the Crawford County Levee District to clarify responsibilities of maintaining the levee and ARDOT structures during construction and in the future. This MOU will also be included in the O&M Manual update.

6 RESIDUAL RISK

Proposed work within the MKARNS will add concrete slope protection to the Crawford County Levee System under the I-49 bridge to mitigate any impacts to the levee vegetation growth or scour. The analysis shown here concludes that the levee will continue to meet the seepage and slope stability requirements, as shown in Appendix A, after construction and there is no negative impact to the levee freeboard for the design flood.

These proposed alterations will not adversely impact public safety or change the authorized purpose of the federal projects.

Section 408 Summary Report

Appendix A

Geotechnical Report

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

I - 49 Project

408 Geotechnical Report

Crawford County, Arkansas

June 2023

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1 Introduction

The geotechnical report section has been developed in support of this Section 408 submittal for the proposed Interstate Highway I- 49 over the Crawford County Levee, in Crawford County, Arkansas. The I- 49 Project will connect Highway 22 in Sebastian County to the I- 40 and I- 49 interchange in Crawford County which includes bridges across the Arkansas River and levee as well as other bridges north of the levee.

This report contains geotechnical global stability analyses at the abutment end slopes and side slopes of the bridge that crosses the Arkansas River (Bridge 1), the bridge abutment end slopes and side slopes for the bridge located north of the Arkansas River and spans the existing levee (Bridge 16), and the existing Crawford County Levee. Evaluation of the existing levee includes global stability of the levee slopes and underseepage considering the proposed drilled shaft penetrations that will support bridge piers that span the existing levee.

The ground elevations and cross sections used in our analyses are based on survey performed by B&F Engineers, a division of Crafton Tull. All elevations presented within this report are presented in NAD83.

Figures 1 through 6 are included at the end of this report. Appendix A provides the boring logs, Appendix B includes the laboratory test results, Appendix C contains the levee global stability and seepage analysis results, and Appendix D contains the Bridge Abutment Stability and Settlement Analysis.

1.1 Description of Project Area and Levee History

The project area lies within the Arkansas River floodplain, where the levee is situated over 1 mile north of the Arkansas River mainstream. The Crawford County Levee system is on the left bank when facing downstream of the Arkansas River. The Crawford County Levee was constructed between 1947 to 1950. The levee is approximately 19.7 miles long with an average embankment height of 15 feet (minimum 7 feet), crown width of 10 feet and 3H (horizontal):1V (vertical) side slopes on both riverside and landside. The levee embankments are generally comprised of lean clays founded on recent alluvial soils. The alluvial floodplain soils generally consist of alluvial clay deposits, underlain by sand deposits. The sands deposits extend to the bedrock which consists of shale.

Historically, the Crawford County Levee System has performed well in terms of seepage. However, based on the Crawford County PIR 2019 Damage Assessment Report, three locations of notable sand boil activity were observed during a high water event in 2019 and a land side toe slope slide failure was reported. This report noted that the sand boils posed not risk to the levee and no repairs or remedial action was recommended. The land side toe slope was supersaturated. A seepage berm was installed to provide stability to the slope and lengthen the seepage path and reduce the hydraulic gradient. Since the original construction in the 1950 the highest recorded floods was in 2019, where levee was loaded to over 80%. Repair was performed in 2020. The sand boils and land side toe slope slide failure were located near the beginning and end of the Crawford County Levee, a significant distance from the proposed I-49 alignment.

1.2 Description of Boring Location Plan

The boring location plan consists of I- 49 borings near the levee crossing. The geotechnical information used for the levee analyses includes borings R-13, R-14, R-15, FB-70 through FB-75, FB-77 through FB-81, FE-10, FE-11, and FP-14. Preliminary borings (R-borings) were drilled on December 2021 through March 2022, and final borings (FE and FB-labeled borings) were drilled in February to March 2023. All borings were drilled, sampled and tested by Grubbs, Hoskyn, Barton & Wyatt, Inc. under the direction of HNTB.

The borings used for global stability analysis of the bridge 1 and bridge 16 abutments are included in the table 1 below:

Table 1: Bridge 1 and 16 Abutment Borings

Bridge Number	Abutment	Borings
Bridge 1	North Abutment	R-9
	South Abutment	FB-4, FB-5, R-2
Bridge 16	North Abutment	FB-79, FB-80, FB-81, R-14, R-15
	South Abutment	R-12, FB-66, FB-67

Boring Location plans are included as Figures 3,4,5, and 6 at the end of this report.

Borings were drilled with typical hollow stem auger techniques using rotary-wash procedures as needed to maintain a stable hole. Sampling was with Standard penetration Tests (SPT) and where cohesive soils were encountered, 3-inch Shelby tubes (30-inch long) were taken.

NQ size rock cores in 5-foot runs were collected between approximately 45 feet to 55 feet into bedrock.

Boring logs and laboratory testing data are shown in Appendices A and B, respectively.

2 Geology, Levee Cross-Section and Soil Conditions, and Laboratory Data

2.1 Geology

The project alignment is primarily mapped in exposures of Holocene Alluvium and a few areas of Pleistocene Terrace deposits based on the Geologic Map of Arkansas[1]. The alluvium and terrace deposits are variable flood plain deposits typically comprised of gravel, sand, silt, and clay and mixtures of these clastic materials. The alluvial deposits characteristically consist of an upper zone of fine-grained clay and/or silt units underlain by sand and gravel units. The alluvial deposits are

variable deposits of small streams, over bank deposits of major streams, or older meander belt deposits of major streams. Locally, the alluvial units are a result of channel fill, natural levee and backswamp activity. The terrace deposits are comprised of a complex sequence of unconsolidated gravel, sand, silt and clay. The thickness of the terrace and alluvial deposits is variable. The bedrock units are of the Pennsylvanian Period McAlester Formation and the Hartshorne Sandstone. The McAlester Formation consists of several hundred feet of shale and thin sandstone and coal beds, several hundred feet of shale and a few sandstone beds and coal is capped by several hundred feet of shale with coal beds. The McAlester Formation rests conformably on the Hartshorne Sandstone and the Lower Hartshorne Coal is just above the base of the McAlester. The McAlester Formation is about 500 to 2300 feet thick. The Hartshorne Sandstone is generally comprised of medium-grained sandstone which is massive and frequently cross-bedded. The thickness of the Hartshorne Sandstone is reported to range from about 10 to 300 feet.

[1] Geologic Map of Arkansas, Arkansas Geological Commission and U.S. Geological Survey; 1993

2.2 Levee Cross-Section and Soil Conditions

Levee Cross Section

For seepage and global stability analyses of the levee, the levee cross section was obtained at the centerline of the I-49 alignment.

The existing levee crown is at approximate elevation of 408.6 feet with a crown width of 10 feet. The levee slopes are approximately 3:1 (H:V) on both the riverside and landside of the levee. The toe of the levee at the I-49 crossing on the land side is estimated to be at approximate elevation of 400.2 feet and the approximate elevation of toe on the riverside is 400.7 feet.

Soil Conditions

Subsurface conditions were interpreted from the data obtained at the test borings drilled as part of this study along with the subsurface data and our understanding of the local geology. The test borings drilled generally encountered alluvial soil consisting of clayey silt, silty clay, overlying sands to top of bedrock (shale). Alluvial soils were naturally deposited by the Arkansas River. Specific soil stratigraphy used in the levee analysis is included in Appendix C and soil stratigraphy for the bridge slope calculations is included in Appendix D.

2.3 Laboratory Data

The levee borings were drilled and sampled with hollow stem auger and 2-inch split spoons (Standard Penetration Tests) in the alluvial materials. Shelby tube samples were obtained in cohesive material. Coring in the shale/sandstone was with an NQ size double-tube core barrel. Samples obtained from these tests were used for laboratory testing.

Select index and physical tests such as moisture contents, Atterberg limits, grain size analysis, unconfined compression tests, and permeability tests were performed on select samples. The boring logs and laboratory test data are presented in Appendices A and B, respectively.

3 Geotechnical Assumptions and Analysis Criteria

3.1 General

This section presents the geotechnical assumptions and design criteria used to perform geotechnical analyses of the levee sections. The following design criteria provided by USACE serve as a guideline for this report:

- EM 1110-2-1906, Laboratory Soil Testing, August 1986;
- EM 1110-2-1901, Seepage Analysis and Control for Dams, April 1993;
- EM 1110-2-1913, DRAFT Design and Construction of Levees, April 2022;
- EM 1110-2-1902, Slope Stability, October 2003;
- Engineering Technical Letter (ETL) 1110-2-569, Design Guidance for Levee Underseepage, May 2005;
- Division Regulation (DIVR) 1110-1-400, Soil Mechanic Data, December 1998;

SEEP/W and SLOPE/W Version 2022.1 by GeoStudio (seepage and global stability analysis computer software program) was utilized for the geotechnical analysis of this study.

3.2 Seepage Parameters

The available field boring logs, laboratory test data, and published correlations were used to characterize the hydraulic conductivity of the soil and bedrock. Hydraulic conductivity selection included a review of flexible wall permeability tests, consolidation tests and empirical correlations. Table 2 below summarizes the approximate ranges of horizontal hydraulic conductivities:

Table 2: Summary of Horizontal Hydraulic Conductivity Ranges (k_h feet/sec)

Material	Anisotropy Ratio k_v:k_h	Used in Analysis k_h
Levee Embankment -CL	0.25	3.8×10^{-08}
Silty Clay – Foundation Blanket	0.25	8.00×10^{-08}
Sandy Silt	0.25	1.00×10^{-07}
Sand	1.0	8.00×10^{-04}
Filter-sand	1.0	8.00×10^{-04}
Shale	1.0	1.00×10^{-12}

Note: Clays and sandy silt were assumed to have an anisotropy ratio of 0.25 (k_v / k_h) (Terzaghi, et al 1996).

3.3 Analysis Elevations

The current elevation of the levee crown within the studied project area is approximately 408.6 feet. The 100-year and 500-year analysis flood water elevations are 402.67 feet and 405.37 feet respectively. The seepage modeling included both the flood elevation at top of levee (Project Levee Grade- PLG) and 2.2 feet below top of levee (Design Water Surface Elevation - DWSE).

3.4 Seepage Analysis

Seepage for all sections was evaluated using analysis criteria as outlined as part of the USACE Engineering Manuals (EMs) for levees. For levees, SEEP/W, a finite element software, was used to determine steady-state seepage and exit gradients. The analysis cross-section evaluated was along the centerline of the proposed bridge. At this location the subsurface conditions showed that the subsurface layers consisted mainly of silty clay, sandy silt and sand with lean clay as levee embankment material and the impervious shale as the bottom of the seepage profile. The cohesionless soils are of variable thickness, variable density, and appear to be relatively continuous from one side of the levee to the other.

The seepage or piping factor of safety, FoS_{piping}, is the ratio of the critical gradient divided by the exit gradient, as shown in Equation 1 below. The critical gradient is defined as the gradient required to induce piping or a quick condition (boils or heaving) of the landside top stratum and is taken as the ratio of the buoyant saturated unit weight of soil and the unit weight of water, or the critical gradient, i_{crit}, is the numerical difference between the saturated unit weight, γ_s, and the unit weight of water, γ_w, divided by the unit weight of water, as shown by Equation 2. The exit gradient i_{ex} is the change in total head at the top stratum divided by the length of the flow path across the stratum. The seepage FoS_{piping} was calculated using critical gradient and exit gradient.

$$FoS_{piping} = \frac{i_{crit}}{i_{ex}} \qquad (1)$$

$$i_{crit} = \frac{\gamma_s - \gamma_w}{\gamma_w} \qquad (2)$$

Seepage at the landside levee toe was evaluated for the top of levee flood water elevation and was required to meet exit gradients less than 0.5 or a design Factor of Safety (FoS) of 1.6 (clayey soils) at the levee toe. Exit gradient at the landside levee toe was required to meet the ETL 1110-2-569 maximum exit gradient of 0.5. Per Section 8-16 of EM 1110-2-1913, the maximum allowable exit gradient at the bottom of drainage ditches located within 150 feet of the landside toe were allowed to increase linearly from 0.5 at the landside toe to 0.8 at a distance of 150 feet landward of the landside toe assuming a soil unit weight not less than 110 pound per cubic feet (pcf). Beyond 150 feet landward of the landside toe, the maximum allowable exit gradient was limited to 0.8. All landside ditches regardless of distance from the levee were analyzed with the water level at the bottom of the ditch per Section 8-16 of EM 1110-2-1913. In addition, the effect of the drilled shaft penetrations of the proposed I-49 Bridge were evaluated for the maximum exit gradient of 0.5.

Seep/W Analysis

The levee soil profile was developed utilizing the soil boring and laboratory testing data. SEEP/W is a two-dimensional finite element model commonly used to model unconfined and confined seepage problems, including groundwater movement and pore water pressure distribution within porous materials such as soil and rock. From the finite element model, the FoS_{piping} was estimated based on the above equations. The seepage analyses were modeled assuming a saturated flow condition in a steady-state analysis.

The bridge piers that span the existing levee are proposed approximately 30 feet from the levee toe on either side of the levee (see Appendix C seepage model). The proposed bridge piers that span the levee will be installed into the bedrock at a bent distance of approximately 130 feet.

Foundation penetrations within the model area were modeled as vertical head or flux boundary conditions along the penetration face to the depth of the estimated active zone, estimated up to 5 feet for seepage analysis. The landside face was then evaluated for piping.

As a check, the ditches alongside Gun Club Road were evaluated for potential underseepage.

Seepage Cases

Three seepage cases were evaluated at the Crawford County Levee where the I-49 alignment crosses the levee. The first case was seepage evaluation of the levee itself; second case was the existing levee with drilled shaft penetration and the third was the ditches along the Gun Club Road.

Seepage Assumptions/Boundary Conditions for Seep/W

- Steady-state, saturated flow;
- Anisotropic and isotropic conditions for fill, alluvial soils, and rock (shale; rock impermeable) per Table 2;
- The critical levee cross section was selected at the centerline of Bridge 16;
- River-side and Land-side boundary conditions assigned appropriately;
- Hydraulic conductivities are selected based on laboratory permeability tests and literature reviews.

4 Results of the Geotechnical Analysis

4.1 Levee Seepage Analysis Results

The purpose of this seepage analysis is to demonstrate that the proposed bridge penetrations do “no harm” to the existing levees. The “no harm” can be demonstrated by meeting or exceeding the USACE seepage requirements as outlined in EMs for levees.

Seepage analyses were performed at approximate levee station 348+50 which is located at the approximate centerline of the I-49 Bridge (Bridge 16). The results of the analyses are presented in Table 3. The results from the Seep/W models for all sections can be found in Appendix C.

Table 3: Seepage Analysis Results for Water at Project Levee Grade

Approximate Crawford County Levee Station	Seepage Location Evaluated	Exit Gradient	Factor of Safety
348+50 (Centerline of Proposed I-49 Bridge)	Existing Levee Toe (408.6 feet PLG)	0.25 (Toe)	3.3
	Existing Levee with Drilled Shaft Penetration	0.3	2.8
	Ditches at Gun Club Road	0.6	1.3

Further seepage analysis for water at a DWSE below project levee grade was performed and results provided in Appendix C. Based on the results of the seepage analyses, underseepage does not show sand boils at this location of the Crawford County Levee/Gun Club Road.

4.2 Levee Global Stability Analysis Results

A levee global stability analysis was performed along the same profile as the seepage analysis. The steady state global stability analysis included seepage pressures from the SEEP/W model. As a check, rapid drawdown analysis was performed. Minimum factors of safety met the Draft USACE EM 1110-2-1913 criteria per Table 7-2. Refer to Appendix C for results of the analyses.

4.3 Bridge Abutment Global Stability and Settlement Analysis

Two bridges are proposed on the I-49 alignment that are near the levee; one spans the Arkansas River (Bridge 1) and the other begins north of the Arkansas River and spans the levee and Gun Club Road (Bridge 16). See Figure 2 for the location of these bridges. This report contains slope stability analyses at the north and south abutment end slopes and side slopes of the bridge that crosses the Arkansas River (Bridge 1) and the north and south abutment end slopes and side slopes of the bridge that is located north of the Arkansas River and spans the existing levee (Bridge 16). The global stability factors of safety meet the AASHTO Bridge Design Specifications, 17th Edition which require a minimum slope stability factor of safety of 1.5 for end slopes and 1.3 for side slopes. Refer to Appendix D for the slope stability analyses.

Settlement analysis at both the north and south abutments of Bridge 16 was performed using Settle 3 from RocScience. Fill heights of 30 feet at the north abutment and 23 feet at the south abutment were considered in the analysis. Corresponding estimated settlement ranges from 11 to 13 inches of total settlement at the north and south abutments, respectively. It is estimated that Bridge 1 will have similar settlement magnitudes. The embankments are proposed to be constructed and allowed to settle at these bridges prior to construction of the bridge and pavement.

5 Conclusions

Bridge 1 and 16 Abutments

The geotechnical analyses included global stability analyses at the abutments (end slopes) and side slopes of the bridge that crosses the Arkansas River (Bridge 1), and the bridge that is located north of the Arkansas River and spans the existing levee (Bridge 16). Bridge 1 and 16 global stability analysis showed that the factor of safety is adequate for the end and side slopes.

Regarding settlement of the embankment for Bridges 1 and 16, it is estimated that settlement will be on the order of 11 to 13 inches. To mitigate this predicted settlement, the embankments are planned to be allowed to settle over a period of time prior to construction of the bridges.

Levee Underseepage and Levee Global Stability

The bridge 16 that spans the existing levee will be supported on drilled shafts located about 30 feet from the landside and riverside levee toes. Underseepage evaluation of the levee with and without proposed drilled shaft penetrations and proposed ditches along Gun Club Road was performed. The existing semi-impervious blanket of the Crawford County Levee at the centerline of the I- 49 bridge is adequate and shows no boils or heave mitigation is required. In addition, global stability (steady state and rapid drawdown) calculations were performed for the existing levee cross section. The factor of safety against underseepage and global stability of levee (steady state and rapid drawdown) meet the requirements of the draft version of EM 1110-2-1913.

FIGURE 1
Site Vicinity Map

N

*Not to scale

FIGURE 1 - SITE VICINITY MAP

I-49
Carwford County, Arkansas

Drawn by:	PA	Checked by:	KAK
Project No.:	63136	Date:	5/24/2023

FIGURE 2
Bridge Location Plan

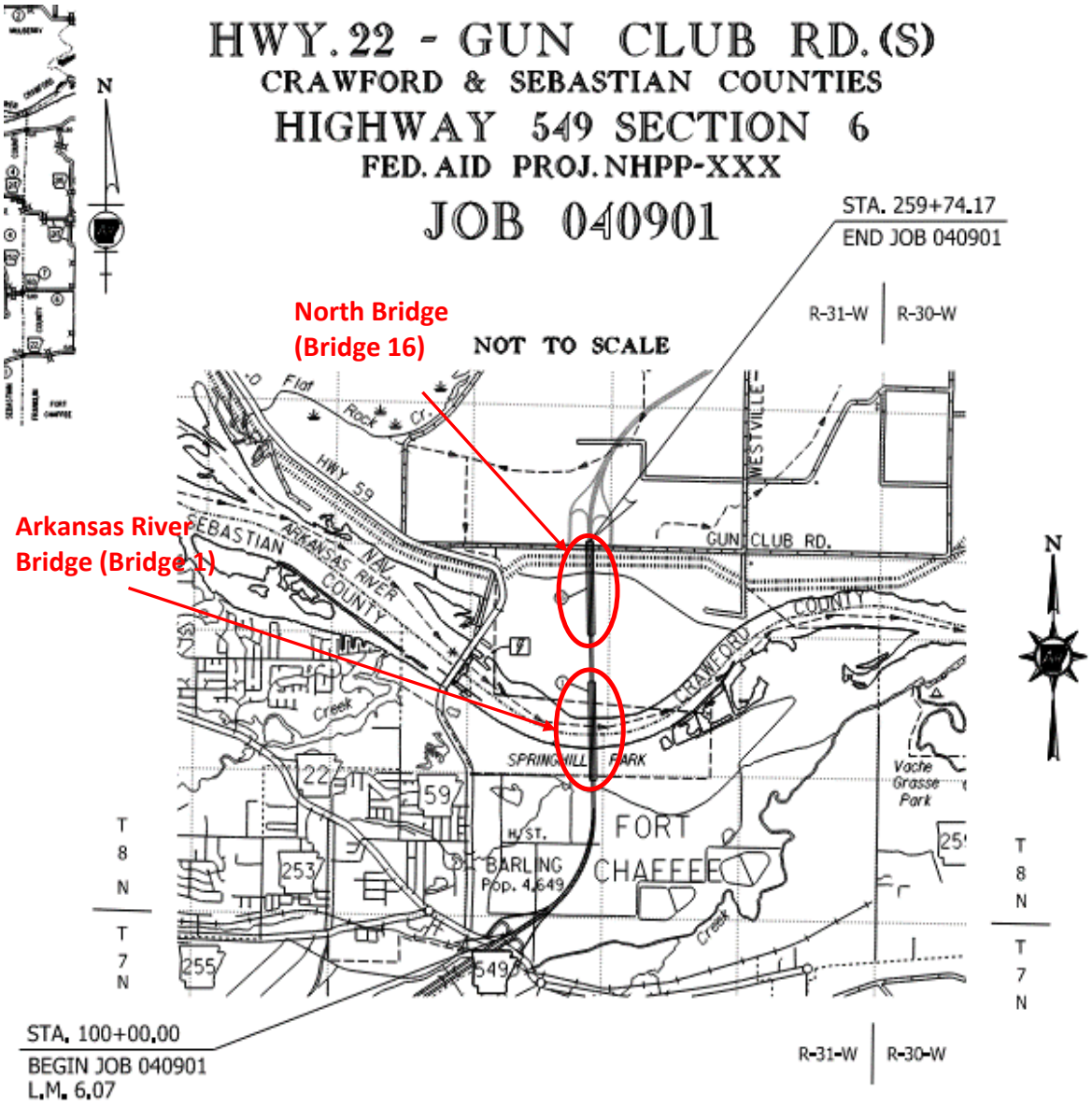


Figure 2 - BRIDGE LOCATION PLAN

I-49
Carwford County, Arkansas

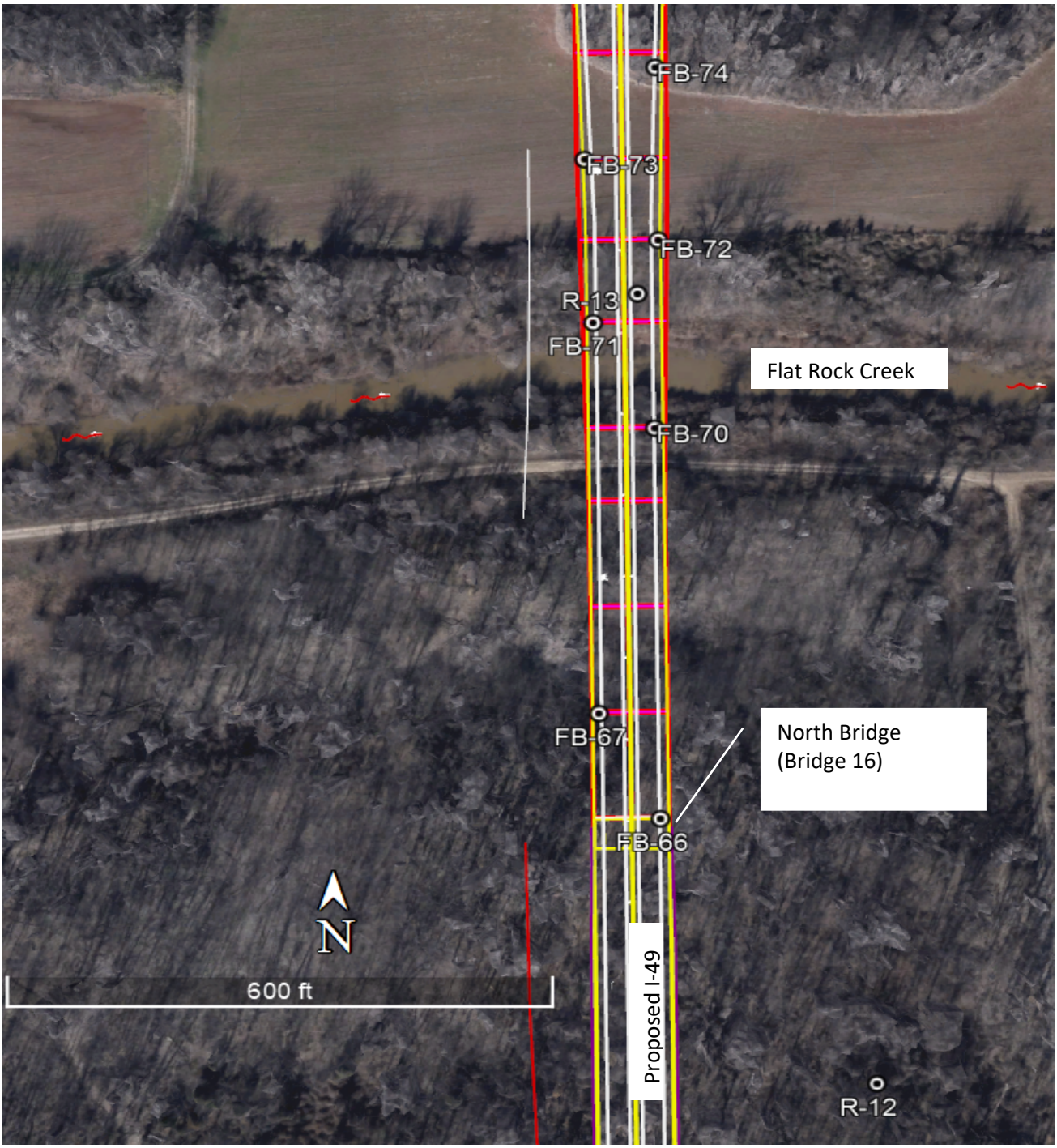
Drawn by:	PA	Checked by:	KAK
Project No.:	63136	Date:	5/24/2023

N

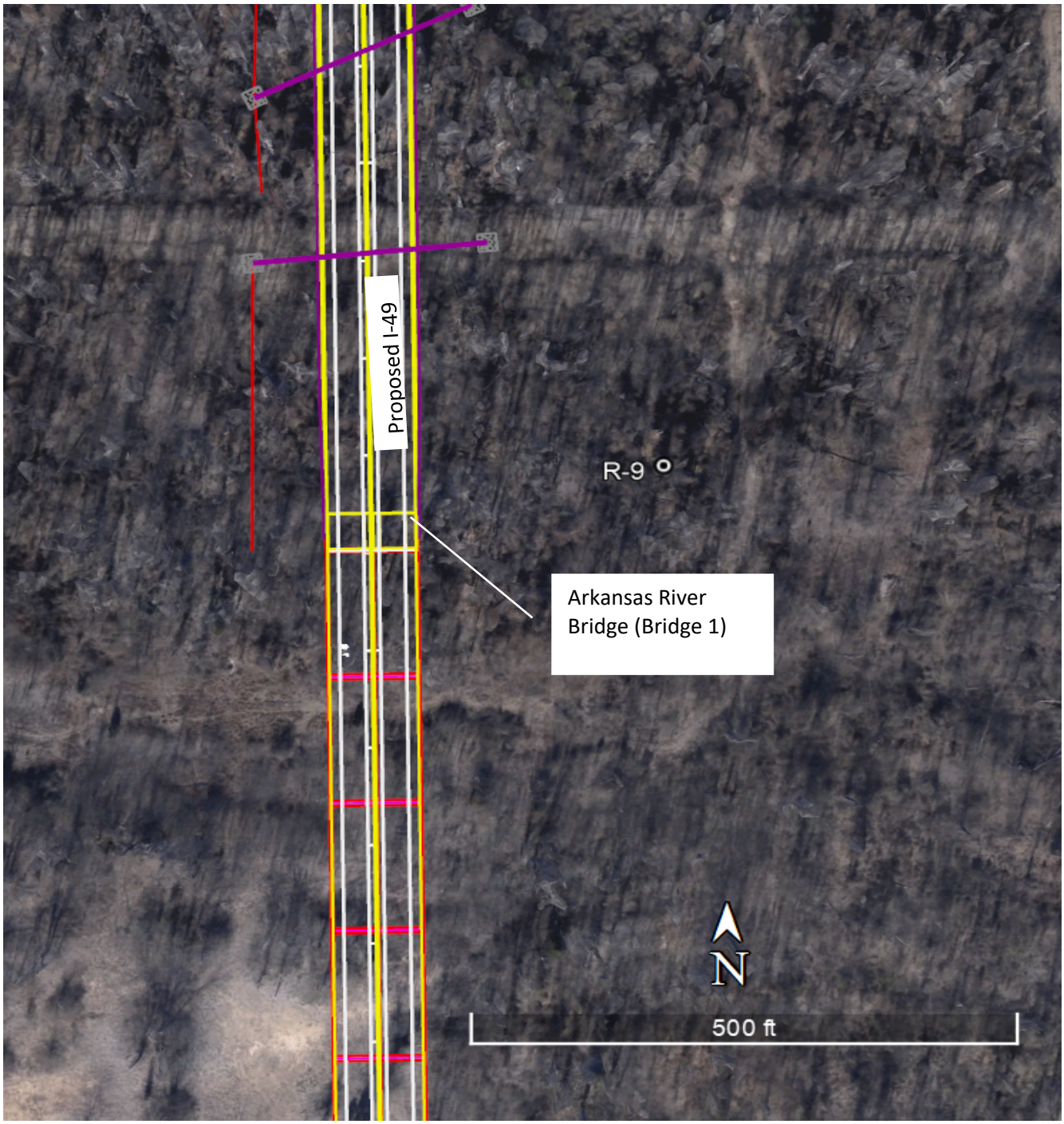
*Not to scale

FIGURE 3,4,5,6
Boring Location Plan

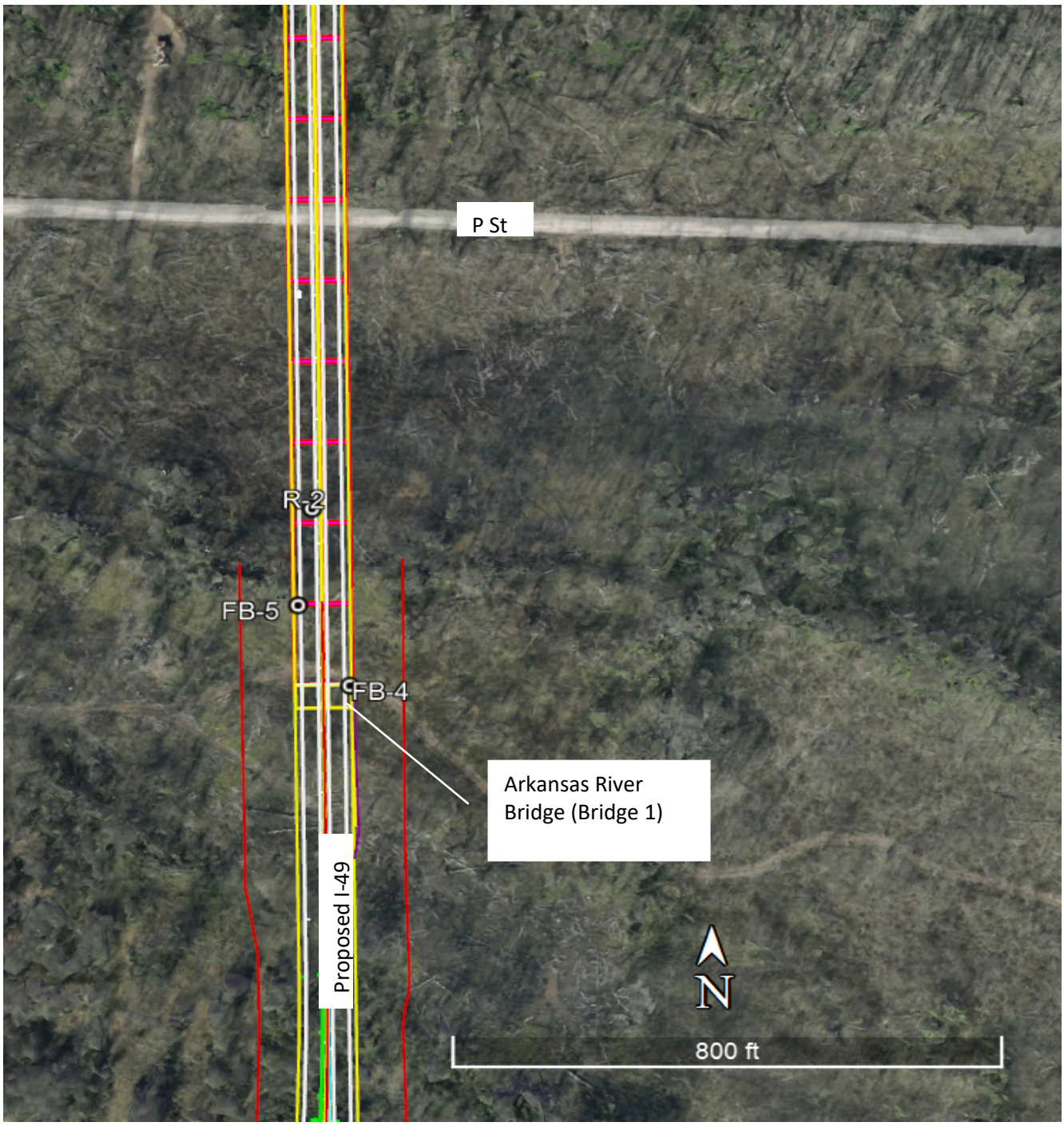
N	FIGURE 3 - BORING LOCATION PLAN			
	I-49 Crawford County, Arkansas			
Approximate Boring Location: ◉	Drawn by:	PA	Checked by:	KAK
Image obtained from Google Earth *Not to scale	Project No.:	63136	Date:	5/24/2023



N	FIGURE 4 - BORING LOCATION PLAN			
	I-49 Crawford County, Arkansas			
Approximate Boring Location:	Drawn by:	PA	Checked by:	KAK
Image obtained from Google Earth *Not to scale	Project No.:	63136	Date:	5/24/2023



N	FIGURE 5 - BORING LOCATION PLAN			
	I-49 Crawford County, Arkansas			
Approximate Boring Location:	Drawn by:	PA	Checked by:	KAK
Image obtained from Google Earth *Not to scale	Project No.:	63136	Date:	5/24/2023



N	**FIGURE 6 - BORING LOCATION PLAN**			
	I-49 Crawford County, Arkansas			
Approximate Boring Location: ◉	Drawn by:	PA	Checked by:	KAK
Image obtained from Google Earth *Not to scale	Project No.:	63136	Date:	5/24/2023

APPENDIX A
Boring Logs

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-2

040748 Hwy 22 to I-40 (Arkansas River)
Sebastian County, Arkansas

TYPE: 3.25 in. HSA 35 ft /NQ Core - CME55 LOCATION: 35.33776° N -94.28053° E

SURF. EL: 386.5

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	- No. 200 %	% Recovery	% RQD
	Very soft reddish tan clayey silt (CL-ML)	2				
	- tube samples taken at 2 to 6 ft	2				
5	Very soft reddish brown clay w/occasional clayey silt layers (CH)	3				
	- clayey silt layer at 4.5 to 5.5 ft	3				
10	Very soft brownish gray clayey silt w/clay seams (CL-ML)	3				
15	Very loose to loose reddish tan fine sandy silt (ML)	4				
20	Very loose to loose reddish tan silty fine sand (SM)	4				
25	Dense tannish gray fine to medium sand w/occasional fine gravel (SM-SP)	37		6		
30		43				
35	Moderately hard dark gray shale, slightly weathered w/some very thin gray fine-grained sandstone partings, horizontal bedding	50/1.5"			100	78
40			159		95	87

COHESION, TON/SQ FT: 0.2 0.4 0.6 0.8 1.0 1.2 1.4

PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT: 10 20 30 40 50 60 70

-NON-PLASTIC-

q_u= 1400 psi, TUW= 164 pcf

COMPLETION DEPTH: 85.0 ft
DATE: 3-15-22

DEPTH TO WATER IN BORING: 34 ft

DATE: 3/14/2022

RECRQDN200-2 21-071_SEBASTIAN COUNTY.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-2

040748 Hwy 22 to I-40 (Arkansas River)
Sebastian County, Arkansas

TYPE: 3.25 in. HSA 35 ft /NQ Core - CME55 LOCATION: 35.33776° N -94.28053° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- more weathered and fractured below 45 ft		158	q_u= 1780 psi, TUW= 163 pcf		100	50
50								90	57
55								100	100
60			Moderately hard to hard dark gray shale w/occasional very thin gray fine-grained sandstone partings, horizontal bedding					100	100
			- sandstone partings more frequent below 63 ft		155	q_u= 1320 psi, TUW= 161 pcf		100	100
65			Hard dark gray shale w/interbedded very thin gray fine-grained sandstone partings, horizontal bedding					100	100
70					163	q_u= 4030 psi, TUW= 165		100	100
75								98	98
80			Moderately hard dark gray shale w/occasional very thin gray fine-grained sandstone partings, horizontal bedding - near vertical fracture at 82 ft, 83.5 ft and 84.5 ft		162	q_u= 3240 psi, TUW= 165 pcf		100	100
85			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						

COMPLETION DEPTH: 85.0 ft
DATE: 3-15-22

DEPTH TO WATER IN BORING: 34 ft

DATE: 3/14/2022

RECRQDN200-2 21-071_SEBASTIAN COUNTY.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-2A

040748 Hwy 22 to I-40 (Arkansas River)
Sebastian County, Arkansas

TYPE: 4.5 in. CFA - CME-55 LOCATION: 5 ft East of R-2

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 386.5	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %
			Very soft reddish tan clayey silt (CL-ML)				
1							
2			- tube samples taken at 2 to 6 ft				
			Very soft reddish brown clay w/occasional clayey silt layers (CH)				
3					87		
4					85		
					84		99
5			- clayey silt layer at 5 to 5.5 ft		89		96
6							
7			NOTE 1: Backfilled with cuttings.				
8			NOTE 2: Drilled by KD.				
9			NOTE 3: Logged by DM.				

COMPLETION DEPTH: 6.0 ft
DATE: 3-14-22

DEPTH TO WATER IN BORING: 6 ft

DATE: 3/11/2022

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55

LOCATION: 35-35187° N -94.27980° E

SURF. EL: 393.2

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan fine sandy silt (ML)	2					
			- very loose to loose below 2 ft	4					
5				4		-NON-PLASTIC-	53		
			Medium dense tan silty fine sand (SM)	19					
			- with some coarse gravel below 8 ft	11					
10									
15			Medium dense tan fine sand w/trace silt (SP)	11			2		
			Medium dense reddish tan and tan fine to medium sand w/occasional fine to coarse gravel (SP)	29					
20									
			- dense at 24 to 29 ft	32					
25									
			- medium dense below 29 ft	23			4		
30									
			- with some coarse sand below 32 ft	23					

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55 LOCATION: 35-35187° N -94.27980° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT + WATER CONTENT ● LIQUID LIMIT + (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
40				27					
45			Moderately hard dark gray weathered shale w/close, very thin gray fine-grained sandstone partings, horizontal bedding	25/0"					
			Moderately hard dark gray shale w/very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	90
50					164	q_u= 4840 psi, TUW= 166 pcf		87	80
55									
			Low hardness to moderately hard dark gray shale, slightly weathered w/multiple fractures and occasional very thin gray fine-grained sandstone partings, horizontal bedding w/occasional pyrite inclusions					88	72
60					165	q_u= 3560 psi, TUW= 167 pcf		70	50
65			Moderately hard dark gray shale w/some very thin gray fine-grained sandstone partings, horizontal bedding		160	q_u= 5330 psi, TUW= 163 pcf		93	90

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55 LOCATION: 35-35187° N -94.27980° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard light gray fine-grained sandstone w/some very thin dark gray shale partings, horizontal bedding - with occasional plant fossils from 72 to 80 ft		167	q_u= 4050 psi, TUW= 170 pcf		95	95
75								100	100
80					163	q_u= 6840 psi, TUW= 165 pcf		100	93
			- with near-vertical fracture at 81.9 to 82.2 ft						
85								100	100
					166	q_u= 8280 psi, TUW= 168 pcf			
90			- with less shale below 90 ft					100	100
			- with occasional quartz vein below 94 ft						
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
100									

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-12

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 50 ft/ NQ Core - CME-55

LOCATION: 35.35760° N -94.27992° E

SURF. EL: 395.9

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT – WATER CONTENT – LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan fine sandy silt (ML)	3					
			- very loose to loose at 2 to 4.5 ft	4					
5			- loose below 4.5 ft	5					
				6		-NON-PLASTIC-	82		
10				7		-NON-PLASTIC- G_s= 2.59	70		
15			- with some fine sand seams below 14 ft	5					
			Dense to very dense tan silty fine sand (SM)						
20				50/11"					
			- water at 22 ft						
			Medium dense gray and tan fine sand, slightly silty (SM-SP)						
25				14			9		
30			- loose below 28.5 ft	5					
			Medium dense tan fine to coarse sand w/some fine gravel	14					

COMPLETION DEPTH: 100.0 ft
DATE: 3-23-22

DEPTH TO WATER IN BORING: 22 ft

DATE: 3/22/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-12

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 50 ft/ NQ Core - CME-55

LOCATION: 35.35760° N -94.27992° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Dense tan and gray fine sand, slightly silty (SM-SP)	46			8		
40									
			Dense gray and tan fine to medium sand w/a little fine gravel (SP)	31					
45									
			Low hardness to moderately hard dark gray weathered shale w/some highly weathered seams and layers, horizontal bedding						
50								62	30
55								82	23
60			- heavily fractured below 60 ft					70	53
65									
			Moderately hard dark gray shale w/occasional fractures, horizontal bedding					98	58

COMPLETION DEPTH: 100.0 ft
DATE: 3-23-22

DEPTH TO WATER IN BORING: 22 ft

DATE: 3/22/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-12

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 50 ft/ NQ Core - CME-55 LOCATION: 35.35760° N -94.27992° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard gray fine-grained sandstone w/close to very close interbedded dark gray shale partings, horizontal bedding w/occasional fractures					100	88
75								98	98
					164	q_u= 2920 psi, TUW= 166 pcf			
80			- frequent mechanical breaks on shale bedding planes below 80.7 ft					100	98
					160	qu= 8400 psi, TUW= 162 pcf			
85								100	100
90								92	92
			- with more shale partings below 93 ft						
95			- coal layer at 94.5 to 95 ft					98	98
100			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						

COMPLETION DEPTH: 100.0 ft
DATE: 3-23-22

DEPTH TO WATER IN BORING: 22 ft

DATE: 3/22/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-13

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA to 30 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.36026°N -94.28080° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 389.2	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown clayey silt (CL-ML)	6 5					
5			Soft reddish brown silty clay (CL)	5					
10			Loose reddish tan fine sandy silt w/occasional clay seams and layers (ML)	8		-NON-PLASTIC-	90		
15				9					
20			- very loose to loose at 18 to 22 ft	4		-NON-PLASTIC-			
25			- medium dense below 22 ft	24					
30				21					
35			Dense tan fine sand, slighty silty (SM-SP)	30					
40				37			10		
				34					

COMPLETION DEPTH: 105.0 ft
DATE: 3-7-22

DEPTH TO WATER IN BORING: 28.6 ft

DATE: 3/7/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-13

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA to 30 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.36026°N -94.28080° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
50				40					
55			Moderately hard dark gray shale, slightly weathered	50/1"	155	q_u= 720 psi, TUW= 156 pcf		93	85
60								100	88
65			- with numerous fractures and occasional highly weathered seams and layers at 65 to 75 ft - with near vertical fracture at 67 to 67.4 ft					88	24
70								92	40
75			- with coal seams and layers at 76 to 77.5 ft - with highly weathered layer at 77.5 to 79 ft		153	q_u= 1250 psi, TUW= 158 pcf		100	75
80								75	35
85			- with multiple very thin sandstone partings below 87 ft		160	q_u= 4370 psi, TUW= 162 pcf		100	88

COMPLETION DEPTH: 105.0 ft
DATE: 3-7-22

DEPTH TO WATER IN BORING: 28.6 ft

DATE: 3/7/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-13

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA to 30 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.36026°N -94.28080° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard light gray fine-grained sandstone w/very close, very thin shale partings					82	82
95			- with pyrite inclusions below 93.9 ft		161	q_u= 4010 psi, TUW= 163 pcf		100	73
100			- with vertical fractures at 98 to 98.2, 100.6 and 103.8 ft		163	q_u= 8150 psi, TUW= 165 pcf		100	83
105			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
110									
115									
120									
125									
130									

COMPLETION DEPTH: 105.0 ft
DATE: 3-7-22

DEPTH TO WATER IN BORING: 28.6 ft

DATE: 3/7/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.361807° N -94.280751° E

SURF. EL: 397.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT – WATER CONTENT – LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very soft reddish brown silty clay (CL)	3					
			- very soft to soft at 2 to 4 ft	4					
5			- firm below 4 ft		101				
				9					
10			Firm to stiff reddish tan fine sandy clay (CL)	10					
15			Loose reddish tan fine sandy silt (ML)	9		-NON-PLASTIC-			
20				8					
25			Medium dense reddish tan fine to medium sand (SP)	15			2		
30			- dense from 28 to 32 ft	50/4"					
35			- medium dense below 32 ft	24					
			Medium dense tan fine to coarse sand w/occasional fine to coarse gravel (SP)	18					

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.361807° N -94.280751° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Medium dense tan fine sand (SP)	11			2		
45			- very dense below 47 ft						
			Dense to very dense tan fine to coarse sand w/some fine to coarse gravel (SP)	50/10"					
50									
			Moderately hard dark gray shale w/occasional sandstone partings, horizontal bedding	50/2"					
55								100	78
60					157	● q_u= 1930 psi, TUW= 162 pcf		95	80
65			- with numerous fractures, little recovery, core barrel plugged due to softer, more weathered shale layers from 65 to 70 ft					30	0
70					152	● q_u= 1110 psi, TUW= 158 pcf		93	70
75			- with partially healed high angle fractures at 74 to 74.3 ft and 77 to 77.9 ft		155	● q_u= 2490 psi, TUW= 161 pcf		83	40

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55 LOCATION: 35.361807° N -94.280751° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with some coal layers washing away from 80 to 82.5 ft					53	20
85			- coal layer at 87.3 to 88.5 ft		156	q_u= 2300 psi, TUW= 162 pcf		100	40
90			- with more fine-grained sandstone inclusions below 92 ft		162	q_u= 4830 psi, TUW= 164 pcf		100	52
95			Moderately hard to hard dark gray shale w/very close, very thin, interbedded fine-grained sandstone partings, horizontal bedding - with more frequent sandstone partings below 97 ft					77	77
100					163	q_u= 6170 psi, TUW= 164 pcf		100	100
105			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
110									
115									

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

SURF. EL: 399.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown silt (ML), dry	6					
			- medium dense below 2 ft	14					
5			Stiff brown to reddish brown silty clay, slightly sandy (CL)	14			87		
			- firm with more silt below 6 ft		106				
10				7					
15				7					
			Loose reddish brown silt (ML), moist						
20				6					
			- slightly sandy below 22 ft - very loose at 22 to 27 ft						
25				WOH					
			- medium dense below 27 ft						
30				16		-NON-PLASTIC-			
			Dense to very dense reddish tan silty fine sand (SM) w/occasional fine-gravel						
35				50					
			- medium dense at 37 to 42 ft - with less silt below 37 ft						
				20			4		

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- dense below 42 ft	39					
45									
			Moderately hard dark gray shale, flat bedded w/numerous multi-directional fractures and close coal seams	50/1"					
50								33	0
55						q_u= 1150 psi, TUW= 160 pcf		100	50
60			- core barrel blocked at 60 to 65 ft					0	0
65						TUW= 158 pcf		96	60
70						q_u= 980 psi, TUW= 161 pcf		98	83
75								100	50

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
						TUW= 153 pcf		72	17
85								100	33
90			- with very close coal seams below 90 ft			TUW= 159 pcf		67	50
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
100									
105									
110									
115									

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 35.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 392.8	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft brown clayey silt (CL-ML)	5					
			- very soft below 2 ft	4					
5			Firm brown silty clay w/silt seams (CL)						
			Loose reddish tan silt (ML), slightly sandy	5					
10				6					
			Medium dense reddish tan silty fine sand (SM)	12					
15			- water at 16.4 ft						
			Loose reddish tan fine to medium sand (SP), slightly silty	7					
20			- medium dense below 22 ft						
25				17					
			Medium dense tan silty fine sand (SM)	25					
30				19					

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-24-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 35.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray weathered shale	50/2"					
			Moderately hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding					98	88
40								90	90
45								100	100
50								100	100
55								100	100
			Moderately hard dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	100
60								100	100
			Moderately hard dark gray shale, horizontal bedding						
65								95	95

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-24-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 35.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	100
75			Moderately hard light gray fine-grained sandstone w/interbedded very close, very thin, dark gray shale partings, horizontal bedding					98	98
80								100	100
85								96	96
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by DT. NOTE 3: Logged by DRM.						
95									
100									

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-24-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-5

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA to 20 ft /Wash to 37 ft /NQ Core LOCATION: 35.33737°N, -94.28060°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 393.6	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT (10 20 30) / WATER CONTENT (40 50 60) / LIQUID LIMIT (70)	- No. 200 %	% Recovery	% RQD
			Soft reddish brown clayey silt (ML)	4 6					
5			Firm reddish brown silty clay (CL) w/silt seams	7					
10			Loose reddish tan fine sandy silt (ML)	9					
15				5					
20			Medium dense tan silty fine sand (SM)	15					
25				22					
30			- dense with some fine to coarse gravel below 28 ft	37					
			Medium dense brown silt (ML), slightly sandy	10					

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-17-23

DEPTH TO WATER IN BORING: 18.9 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-5

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA to 20 ft /Wash to 37 ft /NQ Core LOCATION: 35.33737°N, -94.28060°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
				50/1"					
			Moderately hard dark gray shale w/some gray fine-grained sandstone partings, horizontal bedding					98	60
40								100	100
45								93	93
50			- with high-angle shear at 51.5 ft					100	96
55								100	100
60								98	98
65			- with less sandstone partings below 64 ft					100	100

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-17-23

DEPTH TO WATER IN BORING: 18.9 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-5

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA to 20 ft /Wash to 37 ft /NQ Core LOCATION: 35.33737°N, -94.28060°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								98	98
75			Moderately hard light gray sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
80								98	98
85								100	100
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by D.T. NOTE 3: Logged by DRM.						
95									
100									

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-17-23

DEPTH TO WATER IN BORING: 18.9 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55

LOCATION: 35.358489°N, -94.280716°E

SURF. EL: 388.9

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT – WATER CONTENT – LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft reddish brown silty clay (CL)	6					
			Loose reddish brown silt (ML)	6					
5			Soft reddish brown silty clay (CL) w/some silt seams						
			Loose reddish tan silty fine sand w/occasional clay seams (SM)	7					
10				10					
			Brown tan silty fine sand (SM) - medium dense below 12 ft	8					
15									
20				10					
25				12					
30			Medium dense tan fine to coarse sand w/some fine to coarse gravel (SP)	15					
35				22					
40			Moderately hard dark gray shale, horizontal bedding - with occasional gray fine-grained sandstone partings below 40 ft	50/1"				75	47

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55 LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	90
50			- with some fractures and 100% water loss 52 ft					98	42
55								95	87
60									
			Low hardness black coal					67	0
65									
			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
70								100	100
75								98	98
80								100	100
85								100	100

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-7-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55

LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
95									
100									
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-67

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 45 ft /NQ 2 Core-CME-55 LOCATION: 35.358844°N, -94.280940°E

SURF. EL: 390.8

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose to loose reddish tan fine sandy silt w/silty clay seams (ML)	4					
			- loose below 2 ft	7					
5			- with more fine sandy below 4 ft	6					
			Medium dense tan silty fine sand (SM)	12					
			- loose below 8 ft	8					
10									
			Loose reddish tan fine sandy silt (ML)	7					
15									
20			Loose tan silty fine sand (SML) w/some silt seams	5					
			- very loose below 24 ft	2					
25									
			- medium dense below 29 ft	11					
30									
			Medium dense tan fine to medium sand w/fine to coarse gravel (SW)	25					

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 4-8-23

DEPTH TO WATER IN BORING: 13.5 ft

DATE: 4/7/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-67

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 45 ft /NQ 2 Core-CME-55 LOCATION: 35.358844°N, -94.280940°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with coarse sand below 38 ft	26					
40									
			Moderately hard dark gray shale, horizontal bedding	50/1"					
45								73	73
50			- with numerous fractures and occasional highly weathered seams and layers at 50 to 55 ft					100	53
55								100	82
60			- with highly weathered layer at 58.8 to 59 ft					100	92
65									
			Low hardness black coal					100	40
			Moderately hard dark gray shale, horizontal bedding						

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 4-8-23

DEPTH TO WATER IN BORING: 13.5 ft

DATE: 4/7/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-17-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-67

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 45 ft /NQ 2 Core-CME-55 LOCATION: 35.358844°N, -94.280940°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
75								100	100
80								98	98
85								100	100
90								100	100
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
100									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 4-8-23

DEPTH TO WATER IN BORING: 13.5 ft

DATE: 4/7/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-17-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-70

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 40 ft /NQ 2 Core-CME-55 LOCATION: See Plate 1

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 386.9	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan silty fine sand (SM)	5					
			- medium dense, brown with occasional silt seams at 2 to 6 ft	12					
5			- tan below 4.5 ft	13					
				9					
10				6					
			Loose brown brown fine sandy silt (ML)	6					
15									
			Loose tan silty fine sand (SM)	9					
20									
			- medium dense below 22 ft	16					
25									
30				11					
			Medium dense tan and brown fine to coarse sand w/a little fine to coarse gravel (SM)	11					

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE:

DEPTH TO WATER IN BORING:

DATE:

RECRQDN200-2 21-071_FB LOGS.GPJ 4-19-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-70

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 40 ft /NQ 2 Core-CME-55 LOCATION: See Plate 1

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale - with highly weathered layer at 40 to 40.2 ft						
40								80	30
45								100	52
50								98	80
55								100	52
60								98	98
65								92	40

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE:

DEPTH TO WATER IN BORING:

DATE:

RECRQDN200-2 21-071_FB LOGS.GPJ 4-19-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-70

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 40 ft /NQ 2 Core-CME-55 LOCATION: See Plate 1

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with coal bed at 69.6 to 71.3 ft - with multiple close shale seams below 70 ft					100	33
75			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
80								100	100
85								100	100
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by EB. NOTE 3: Logged by DRM.						
95									
100									

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE:

DEPTH TO WATER IN BORING:

DATE:

RECRQDN200-2 21-071_FB LOGS.GPJ 4-19-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-71

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 10 ft /Wash 40 ft /NQ 2-Core-CME-55 LOCATION: 35.360162°N, 94.280965°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 387.2	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan silty fine sand (SM)	4					
			- loose with silt seams and layers below 2 ft	5					
5			Very loose to loose reddish brown fine sandy silt (ML), moist w/occasional decayed organics	4					
			- loose below 6 ft	6					
			Loose reddish tan silty fine sand (SM)	4					
10			- very loose to loose at 8 to 12 ft						
			- medium dense below 12 ft						
15				4					
20				12					
25				11					
30			Medium dense reddish tan fine to medium sand (SP)	15					
35			Medium dense tan fine to coarse sand w/some fine gravel (SW)	14					
			Moderately hard dark gray shale, slightly weathered	50/2"					

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-4-23

DEPTH TO WATER IN BORING: 8.3 ft

DATE: 3/28/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-71

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 10 ft /Wash 40 ft /NQ 2-Core-CME-55 LOCATION: 35.360162°N, 94.280965°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding					82	82
45								100	100
50								93	93
55								100	96
60								100	98
65								98	98
70			- with more sandstone partings and small inclusions at 68.5 to 69.4 ft - with coal bed at 72.5 to 74.2 ft					98	45
75								100	100
			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings,						

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-4-23

DEPTH TO WATER IN BORING: 8.3 ft

DATE: 3/28/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-11-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-71

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 10 ft /Wash 40 ft /NQ 2-Core-CME-55 LOCATION: 35.360162°N, 94.280965°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			horizontal bedding					100	100
85								98	98
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
95									
100									
105									
110									
115									

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-4-23

DEPTH TO WATER IN BORING: 8.3 ft

DATE: 3/28/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-11-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-72

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2 Core-CME-55

LOCATION: 35.360440°N, -94.280723°E

SURF. EL: 393.9

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown silt w/trace clay (ML)	6					
			Soft reddish brown silty clay (CL)						
5				6					
			Medium dense reddish tan fine sandy silt (ML)						
10				10					
15				6					
20			- brown with less sand below 18 ft	4					
			Medium dense brown fine to coarse sand w/some fine to coarse gravel (SP)						
25				14					
			Loose brown fine sandy silt (ML)						
30				6					

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-26-23

DEPTH TO WATER IN BORING: 13.9 ft

DATE: 3/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-72

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2 Core-CME-55 LOCATION: 35.360440°N, -94.280723°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
40									
45			Moderately hard dark gray shale, horizontal bedding			q_u= 540 psi, TUW= 161 pcf		75	75
50								97	92
55						q_u= 1080 psi, TUW= 160 pcf		97	92
60						q_u= 2210 psi, TUW= 160 pcf		100	100
65								100	100

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-26-23

DEPTH TO WATER IN BORING: 13.9 ft

DATE: 3/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-72

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2 Core-CME-55 LOCATION: 35.360440°N, -94.280723°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								97	88
75								88	60
			- with coal bed at 78.2 to 80 ft			q_u= 1050 psi, TUW= 165 pcf			
80								97	97
85			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin shale partings, horizontal bedding			q_u= 4690 psi, TUW= 167 pcf		97	97
90						q_u= 4310 psi, TUW= 159 pcf		98	98
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
100									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-26-23

DEPTH TO WATER IN BORING: 13.9 ft

DATE: 3/26/2023

21-071

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

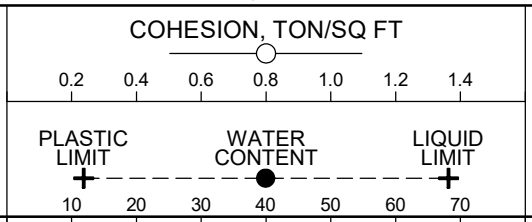
LOG OF BORING NO. FB-73

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 15 ft /Wash 45 ft /NQ2 Core-CME-55 LOCATION: 35.360711°N, -94.280999°E

SURF. EL: 392.7

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	- No. 200 %	% Recovery	% RQD
	Soft brown clayey silt (ML)					
	Soft brown silty clay (CL) w/some silt pockets	7				
5	- very soft below 4.5 ft	3	100			
	- firm to stiff below 9 ft	11				
10	Medium dense reddish brown fine sandy silt (ML)					
15	- loose below 14 ft	6				
20	- very loose below 18.5 ft - slightly clayey below 19 ft	3				
25	Medium dense tan silty fine sand (SM)	21				
30	- very loose below 29 ft	4				
35		5				
40	Medium dense tan fine to coarse sand w/some fine to coarse gravel (SP)	13				
	Moderately hard dark gray shale, slightly weathered	50/1"				



DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-21-23

DEPTH TO WATER IN BORING: 14 ft

DATE: 3/20/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-73

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 15 ft /Wash 45 ft /NQ2 Core-CME-55 LOCATION: 35.360711°N, -94.280999°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding			q_u= 1140 psi, TUW= 167 pcf		88	77
50								100	83
55								100	100
60			- with occasional clayey shale partings below 60 ft					97	93
65								100	93
70						q_u= 1550 psi, TUW= 163 pcf		100	100
75									
			Moderately hard black coal					100	95
80			Hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding - with occasional pyrite inclusions below 80 ft					100	100
85			Moderately hard dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	100

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-21-23

DEPTH TO WATER IN BORING: 14 ft

DATE: 3/20/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-73

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 15 ft /Wash 45 ft /NQ2 Core-CME-55 LOCATION: 35.360711°N, -94.280999°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								90	90
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM.						
100									
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-21-23

DEPTH TO WATER IN BORING: 14 ft

DATE: 3/20/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-74

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2-CORE-CME-55 LOCATION: 35.361023°N, -94280739°E

SURF. EL: 392.9

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft reddish brown silty clay w/rootlets (CL)	5					
5			Medium dense reddish brown and reddish tan fine sandy silt (ML)	11					
			- loose at 6 to 8 ft	7					
			- very loose at 8 to 22 ft	4					
10									
			- water at 13 ft	4					
15									
20				2					
			- loose, dark brown below 22 ft	7					
25									
30			Very loose brown silty fine sand (SM)	3					
35			Very loose brown and tan fine to medium sand, slightly silty (SP)	2					
			Dense tan and brown fine to coarse sand w/some fine to coarse gravel (SM)	32					

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-27-23

DEPTH TO WATER IN BORING: 13 ft

DATE: 3/27/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-74

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2-CORE-CME-55 LOCATION: 35.361023°N, -94280739°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding						
45			- with occasional gray sandstone partings below 45 ft - with more fractures from 45 to 50 ft	50/3"				60	22
50								90	70
55			- with near vertical fractures at 55.8 to 56.1 ft					100	83
60								100	100
65								98	98
70								98	98
75			- with some sandstone partings below 75 ft - with coal bed at 78 to 80 ft					83	60

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-27-23

DEPTH TO WATER IN BORING: 13 ft

DATE: 3/27/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-29-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-74

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2-CORE-CME-55 LOCATION: 35.361023°N, -94280739°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	60
85			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					98	98
90								100	100
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
100									
105									
110									
115									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-27-23

DEPTH TO WATER IN BORING: 13 ft

DATE: 3/27/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-29-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-75

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 46 ft /NQ Core-CME-55 LOCATION: 35.361425°N, -94.281011°E

SURF. EL: 392.1

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	- No. 200 %	% Recovery	% RQD
	Firm reddish brown silty clay(CL) w/rootlets and decayed organics	7				
	Soft reddish brown silty clay (CL)	6	96			
5	- with silt pockets and partings below 6 ft	5				
	Stiff brown and gray clay (CH), blocky w/ferrous stains	1				
10						
15						
20	Very loose to loose reddish tan silty fine sand (SM)	4				
	- loose below 22 ft - water at 22.5 ft					
25		9				
	Medium dense tan fine to medium sand (SP)	18				
30						
35		16				
		17				

COHESION, TON/SQ FT: 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4

PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT: 10, 20, 30, 40, 50, 60, 70

DRAFT

COMPLETION DEPTH: 51.0 ft
DATE: 3-14-23

DEPTH TO WATER IN BORING: 22.5 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-75

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 46 ft /NQ Core-CME-55 LOCATION: 35.361425°N, -94.281011°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
				50/58"					
45			Moderately hard dark gray shale, slightly weathered w/occasional very thin gray fine-grained sandstone partings and ferrous stains, horizontal bedding	25/0"				95	82
50								97	85
55			- with some clayey shale partings and seams and fractures from 55 to 80 ft					100	78
60						q_u= 1040 psi, TUW= 158 pcf		88	58
65								92	20
70								98	30
75			- coal seams and layers from 77 to 79 ft - with pyrite inclusions at 77.6 to 77.9 ft					100	25

DRAFT

COMPLETION DEPTH: 51.0 ft
DATE: 3-14-23

DEPTH TO WATER IN BORING: 22.5 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-75

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 46 ft /NQ Core-CME-55 LOCATION: 35.361425°N, -94.281011°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard light gray fine-grained sandstone w/interbedded very close, very thin shale partings, horizontal bedding			q_u= 2650 psi, TUW= 163 pcf		98	98
85									
								98	98
90									
								100	98
95									
			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by CL. NOTE 3: Logged by DJM.						
100									
105									
110									
115									

DRAFT

COMPLETION DEPTH: 51.0 ft
DATE: 3-14-23

DEPTH TO WATER IN BORING: 22.5 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-77

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft/ NQ 2 Core-CME-55 LOCATION: 35.362140°N, -94.281022°E

SURF. EL: 400.2

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft dark brown clayey silt (ML)	6					
			Soft dark brown silty clay (CL)	6	98				
5				6					
10			Firm dark brown clayey silt (ML)						
15			Loose tan and reddish tan fine sandy silt (ML)	8					
20			Medium dense tan silty fine sand (SM)	22					
25			- very loose, water at 23 ft	3					
30			Medium dense tan fine to medium sand (SP)	11					
35				10					
40				26					
			- with some fine to coarse	15					

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 3-17-23

DEPTH TO WATER IN BORING: 23 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-77

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft/ NQ 2 Core-CME-55 LOCATION: 35.362140°N, -94.281022°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			gravel below 44 ft						
50			Moderately hard dark gray shale, horizontal bedding	50/4"					
						q_u= 1190 psi, TUW= 160 pcf		85	85
55								100	80
						q_u= 1410 psi, TUW= 156 pcf			
60								100	100
65								93	90
70			- close shale partings at 68.5, 68.7, 71.8, 72.5 and 72.6 ft - with occasional gray fine-grained sandstone partings below 70 ft			q_u= 1340 pcf, TUW= 158 pcf		100	78
75								100	63
80						q_u= 640 psi, TUW= 163 pcf		100	100
85			- coal seam at 85 ft and 94 ft					95	95

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 3-17-23

DEPTH TO WATER IN BORING: 23 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-15-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-77

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft/ NQ 2 Core-CME-55 LOCATION: 35.362140°N, -94.281022°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with some pyrite inclusions below 92 ft					78	75
95			Hard gray fine-grained sandstone w/some dark gray shale partings, horizontal bedding			q_u= 4750 psi, TUW= 161 pcf		100	100
100			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM.						
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 3-17-23

DEPTH TO WATER IN BORING: 23 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-15-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-78

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 55 ft /NQ 2 Core-CME-55 LOCATION: 35.362417°N, -94.280755°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 400.7	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft dark brown clayey silt (CL-ML)	5					
5			Firm to stiff dark brown silty clay (CL) w/silt pockets	10					
			Firm to stiff dark brown clay (CH)	6					
10			Loose reddish brown fine sandy silt, slightly clayey (ML)						
15			Loose reddish brown silty fine sand (SM)	7					
20				35					
25			- medium dense from 19 to 22 ft	9					
30			Medium dense tan fine to medium sand (SP)	10					
35				10					
40			- with some fine to coarse gravel below 39 ft	25					
			Medium dense tan fine to coarse sand w/fine to coarse gravel (SP)	14					

DRAFT

COMPLETION DEPTH: 105.0 ft
DATE: 3-19-23

DEPTH TO WATER IN BORING: 21 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-78

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 55 ft /NQ 2 Core-CME-55 LOCATION: 35.362417°N, -94.280755°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
50				25					
			Low hardness dark gray shale, slightly weathered						
55				50/1"					
			- with some clayey shale seams below 55.5 ft						
			Moderately hard dark gray shale, horizontal bedding					80	50
60								96	96
65								100	87
70								100	98
75								96	87
80								96	77
85								96	96

DRAFT

COMPLETION DEPTH: 105.0 ft
DATE: 3-19-23

DEPTH TO WATER IN BORING: 21 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-78

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 55 ft /NQ 2 Core-CME-55 LOCATION: 35.362417°N, -94.280755°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	67
			Low hardness black coal						
95			Hard dark gray shale w/some clayey shale seams, horizontal bedding					100	80
			Moderately dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	100
100									
105			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM.						
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 105.0 ft
DATE: 3-19-23

DEPTH TO WATER IN BORING: 21 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 398.9	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt (ML)						
			Firm brown silty clay (CL)	7					
5			- firm to stiff at 4 to 6 ft	10					
			- soft below 6 ft	6					
10				6					
15									
20			Medium dense tan silty fine sand (SM)	16					
25			Loose reddish brown fine sandy silt (ML)	8					
30			Medium dense tan fine to medium sand, slightly silt (SM-SP)	25					
35				28					
40				28					
				19					

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding					75	67
50								100	100
55								92	92
60								100	100
65								95	95
70								100	100
75								95	95
80								100	100
85			- with very close fine-grained sandstone partings below 85 ft					97	97

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- coal layer at 91.6 to 93 ft - close coal seams at 93 to 94 ft					100	53
95								100	100
100			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM/JKB.						
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

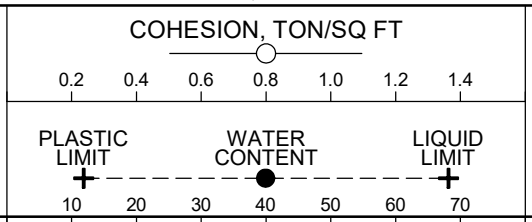
LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

SURF. EL: 400.0

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	- No. 200 %	% Recovery	% RQD
	Loose brown silt (ML)	5				
	Firm brown silty clay (CL)	7	102			
5	- stiff below 3.5 ft		104 108 109	97		
	Firm brown clayey silt, sandy (CL)	7				
10						
15	Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)	10		44		
20	- with fewer fine sandy silt seams and layers below 18 ft - medium dense at 18 to 23 ft	15				
25	- loose at 23 to 28 ft	9				
30	Dense reddish tan fine sand, slightly silty (SM-SP)	37		10		
35	- loose below 33 ft	9				
40	Medium dense tan fine to medium sand, slightly silty (SM-SP)	14				
	- dense below 43 ft	31				



DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-11-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding	50/4"					
50								92	87
55								98	98
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-11-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 399.5	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt, sandy (ML)	5					
			Firm brown silty clay (CL)						
5				9					
			- firm to stiff below 6 ft	10					
			Soft reddish brown clayey silt (CML-ML)	5					
10									
15			Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)						
20				10					
			- loose at 23 to 38 ft - with fewer fine sandy silt seams and layers below 23 ft						
25				8					
30				5					
35				7					
			- dense below 38 ft						
40				31					
				35					

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding	50/3"					
50								85	73
55								100	100
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FE-10

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft/Wash-CME-55 LOCATION: 35.365729°N, -94.279250°E

SURF. EL: 399.9

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %
	Loose brown fine sandy silt (ML)	4			
	Soft dark brown silty clay (CL) w/silt pockets				
5	- stiff with more silt pockets below 4.5 ft	15			
		10			
10		10			
15	Medium dense reddish brown and tan fine sandy silt (ML)	10			
20	Loose reddish tan and brown silty fine sand (SM) - water at 20 ft	8			
25		8			
30		5			
35	- medium dense with less silt below 34 ft	13			
40	Medium dense tan fine to coarse sand (SP)	30			

NOTE 1: Backfilled with cuttings.
NOTE 2: Drilled by JSW.
NOTE 3: Logged by IJM.

DRAFT

COMPLETION DEPTH: 40.0 ft
DATE: 1-23-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 1/23/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FE-11

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash-CME-55 LOCATION: 35.366338°N, -94.282233°E

SURF. EL: 401.4

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %
	Soft brown clayey silt (ML)	5			
	Very soft dark brown silty clay (CL)	3			
5	- firm below 4 ft	7			
10	Soft reddish tan and brown clay (CH)	6			
15	- with silt seams below 14 ft	6			
20		7			
25		4			
30	Very loose tan silty fine sand (SM)	3			
35	- fine to medium sand below 34 ft - loose below 34 ft	9			
40		9			

NOTE 1: Backfilled with cuttings.
NOTE 2: Drilled by JSW.
NOTE 3: Logged by IJM.

DRAFT

COMPLETION DEPTH: 40.0 ft
DATE: 2-21-23

DEPTH TO WATER IN BORING: 24 ft

DATE: 2/21/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FP-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: CFA-CME-55 LOCATION: 35.364014°N, -94.278009°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 399.0	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %
1			Very soft brown clayey silt (ML)	4			
2			Soft brown silty clay (ML)		100		84
3							
4							97
5					100		
			Firm to stiff brown clayey silt (ML)	10			
6							
7							
8							
9							

DRAFT

NOTE 1: Backfilled with cuttings.

NOTE 2: Drilled by JSW.

NOTE 3: Logged by IJM.

COMPLETION DEPTH: 5.5 ft
DATE: 2-23-23

DEPTH TO WATER IN BORING: Dry

DATE: 2/23/2023

APPENDIX B
Laboratory Test Results

SUMMARY of CLASSIFICATION TEST RESULTS

PROJECT: 040748 Hwy 22 to I-40
LOCATION: Crawford & Sebastian Counties, Arkansas
GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	ATTERBERG LIMITS			SIEVE ANALYSIS PERCENT PASSING								USCS CLASS.	AASHTO CLASS.
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2 in.	1 in.	3/4 in.	3/8 in.	#4	#10	#40	#200		
R-2	24-25	---	NON-PLASTIC			100	100	100	100	100	99	55	6	SM-SP	A-3
R-2A	2.5-3	32	35	21	14	---	---	---	---	---	---	---	---	CL	A-6
R-2A	4.5-5	34	60	23	37	---	---	---	---	---	---	---	99	CH	A-7-6
R-2A	5-5.5	32	26	22	4	---	---	---	---	---	---	---	96	CL-ML	A-4

SUMMARY of CLASSIFICATION TEST RESULTS

PROJECT: 040748 Hwy 22 to I-40
LOCATION: Crawford & Sebastian Counties, Arkansas
GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	ATTERBERG LIMITS			SIEVE ANALYSIS PERCENT PASSING								USCS CLASS.	AASHTO CLASS.
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2 in.	1 in.	3/4 in.	3/8 in.	#4	#10	#40	#200		
R-13	4.5-5.5	29	43	23	20	---	---	---	---	---	---	---	---	CL	A-7-6
R-13	9-10	22	NON-PLASTIC			---	---	---	---	---	---	---	90	ML	A-4
R-13	19-20	29	NON-PLASTIC			---	---	---	---	---	---	---	---	ML	A-4
R-13	39-40	14			---	100	100	100	100	100	99	70	10	SM-SP	A-3
R-14	4-4.5	25	40	20	20	---	---	---	---	---	---	---	---	CL	A-6
R-14	9-10	13	27	18	9	---	---	---	---	---	---	---	---	CL	A-4
R-14	14-15	8	NON-PLASTIC			---	---	---	---	---	---	---	---	ML	A-4
R-14	24-25	---	---	---	---	100	100	100	100	100	99	63	2	SP	A-3
R-14	44-45	---	---	---	---	100	100	100	100	100	100	79	2	SP	A-3

SUMMARY of CLASSIFICATION TEST RESULTS

PROJECT: 040748 Hwy 22 to I-40
LOCATION: Crawford & Sebastian Counties, Arkansas
GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	ATTERBERG LIMITS			SIEVE ANALYSIS PERCENT PASSING								USCS CLASS.	AASHTO CLASS.
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2 in.	1 in.	3/4 in.	3/8 in.	#4	#10	#40	#200		
R-15	4.5-5.5	21	42	20	22	---	---	---	---	---	---	---	87	CL	A-7-6
R-15	6.5-7	20	38	17	21	---	---	---	---	---	---	---	---	CL	A-6
R-15	29-30	18	NON-PLASTIC			---	---	---	---	---	---	---	---	ML	A-4
R-15	39-40	15	---	---	---	100	100	100	92	89	87	71	4	SP	A-3

SUMMARY of CLASSIFICATION TEST RESULTS

PROJECT: 040748 Hwy 22 to I-40

LOCATION: Crawford & Sebastian Counties, Arkansas

GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	ATTERBERG LIMITS			SIEVE ANALYSIS PERCENT PASSING								USCS CLASS.	AASHTO CLASS.
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2 in.	1 in.	3/4 in.	3/8 in.	#4	#10	#40	#200		
FB-79	24-25	22	---Non Plastic---			---	---	---	---	---	---	---	---	ML	A-4
FB-80	0.5-1.5	20	---Non Plastic---			---	---	---	---	---	---	---	---	ML	A-4
FB-80	6-6.5	23	44	20	24	100	100	100	100	100	---	---	97	CL	A-7-6
FB-80	9-10	20	27	17	10	---	---	---	---	---	---	---	---	CL	A-4
FB-80	14-15	11	---	---	---	100	100	100	100	100	---	---	44	SM	A-4
FB-80	29-30	20	---	---	---	100	100	100	100	100	---	---	10	SM-SP	A-3
FB-81	2.5-3	18	41	17	24	---	---	---	---	---	---	---	---	CL	A-7-6
FB-81	4.5-5.5	23	46	20	26	---	---	---	---	---	---	---	---	CL	A-7-6
FB-81	19-20	19	---	---	---	100	100	100	100	100	---	---	7	SM-SP	A-3
FB-81	29-30	24	---	---	---	100	100	100	100	100	---	---	10	SM-SP	A-3

SUMMARY of CLASSIFICATION TEST RESULTS

PROJECT: 040748 Hwy 22 to I-40

LOCATION: Crawford & Sebastian Counties, Arkansas

GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	ATTERBERG LIMITS			SIEVE ANALYSIS PERCENT PASSING								USCS CLASS.	AASHTO CLASS.
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2 in.	1 in.	3/4 in.	3/8 in.	#4	#10	#40	#200		
FE-10	2-2.5	23	---Non Plastic---			100	100	100	100	100	---	---	80	ML	A-4
FE-10	2.5-3	21	---Non Plastic---			100	100	100	100	100	---	---	78	ML	A-4
FE-10	3-3.5	19	---Non Plastic---			---	---	---	---	---	---	---	---	ML	A-4
FE-10	4.5-5.5	18	40	20	20	---	---	---	---	---	---	---	---	CL	A-6
FE-10	9-10	22	44	18	26	---	---	---	---	---	---	---	---	CL	A-7-6
FE-10	14-15	8	---	---	---	100	100	100	100	100	100	100	24	SM	A-2-4
FE-11	2.5-3.5	22	30	18	12	---	---	---	---	---	---	---	---	CL	A-6
FE-11	6-6.5	22	33	17	16	100	100	100	100	100	---	---	93	CL	A-6
FE-11	14-15	34	48	19	29	---	---	---	---	---	---	---	---	CL	A-7-6
FE-11	21.5-22	17	43	20	23	100	100	100	100	100	---	---	92	CL	A-7-6
FE-11	34-35	20	---Non Plastic---			---	---	---	---	---	---	---	---	SM	A-3

SUMMARY of SOIL COMPRESSION TEST RESULTS and UNIT WEIGHTS

PROJECT: 040748 Hwy 22 to I-40
LOCATION: Crawford & Sebastian Counties, Arkansas
GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	DRY UNIT WEIGHT (lbs/ft^3)	CONFINING PRESSURE ($lbs/in.^2$)	UNDRAINED SHEAR STRENGTH (cohesion, s_u)(lbs/ft^2)
FB-4	6.5-7.5	35	89	---	1110
FB-72	2.5-3.5	24	89	---	---
FB-73	2.5-3.5	35	79	---	---
FB-73	6.5-7	25	101	---	1200
FB-75	4.5-5	28	96	---	1600
FB-75	9-10	28	81	---	---
FB-77	4-4.5	24	98	---	1000
FB-78	6.5-7	21	104	---	2240
FB-78	7-7.5	19	108	---	4160
FB-79	1-1.5	23	104	---	940
FB-79	13-13.5	24	100	---	660
FB-80	4-4.5	23	102	---	2020
FB-80	5.5-6	21	104	---	1540
FB-80	6.5-7	19	108	---	4500
FB-80	7.5-8	19	109	---	3460
FB-81	2-2.5	18	106	---	760
FB-81	14-14.5	19	107	---	960

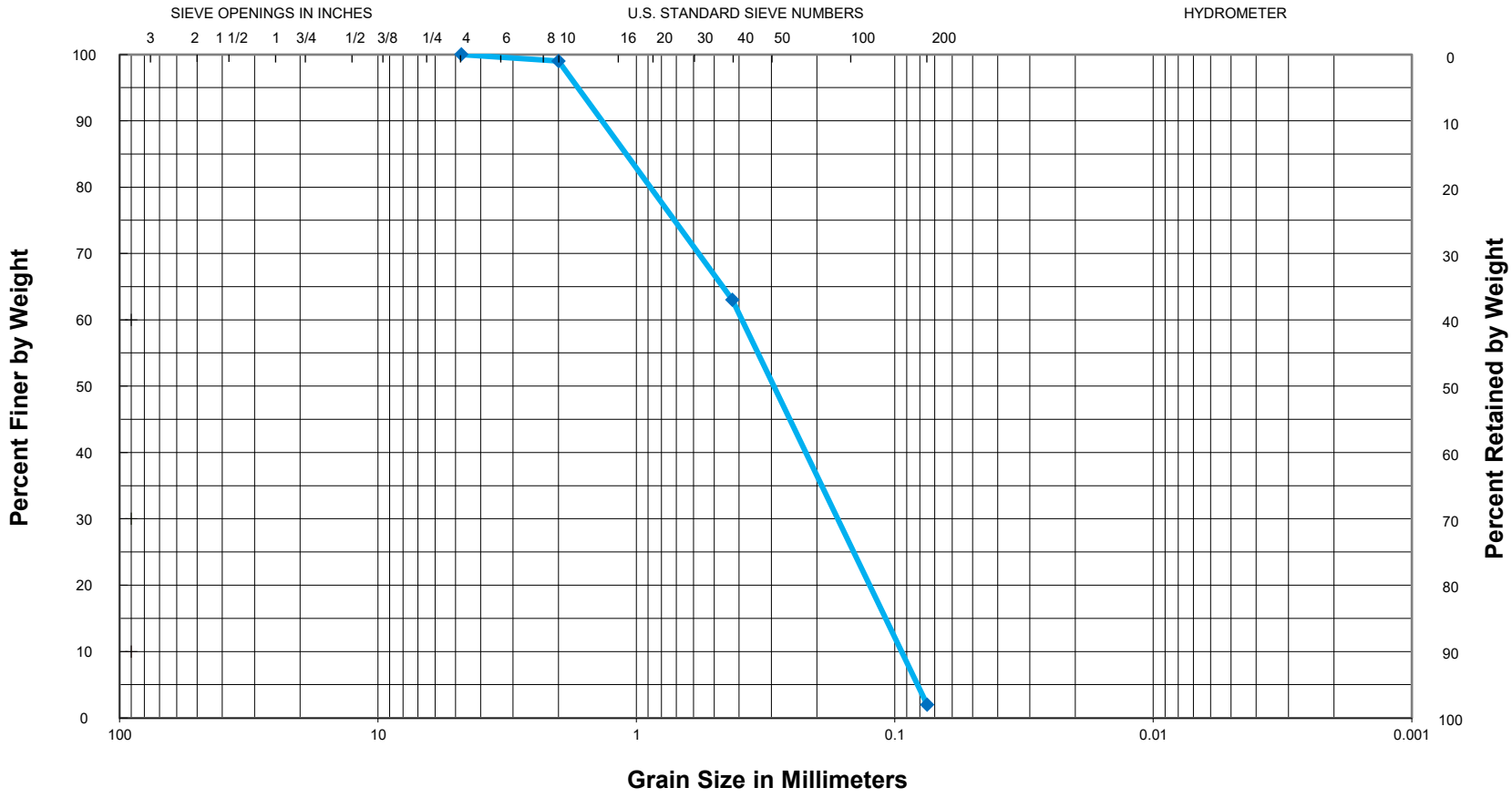
BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	DRY UNIT WEIGHT (lbs/ft^3)	CONFINING PRESSURE ($lbs/in.^2$)	UNDRAINED SHEAR STRENGTH (cohesion, s_u)(lbs/ft^2)	COHESION - HAND PENETROMETER, ($tons/ft^2$)
R2A	3-3.5	32	87	---	220	0.3
R2A	4-4.5	30	85	6	340	0.5

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	DRY UNIT WEIGHT (lbs/ft^3)	CONFINING PRESSURE ($lbs/in.^2$)	UNDRAINED SHEAR STRENGTH (cohesion, s_u)(lbs/ft^2)	COHESION - HAND PENETROMETER, ($tons/ft^2$)
R-14	4-4.5	25	101	5	1300	2.38
R-15	6.5-7	20	106	6	2900	2.8

21-071

GRAIN SIZE CURVE

Grubbs, Hoskyn, Barton & Wyatt, INC.
CONSULTING ENGINEERS



GRAVEL		SAND			SILT OR CLAY
COARSE	FINE	COARSE	MEDIUM	FINE	

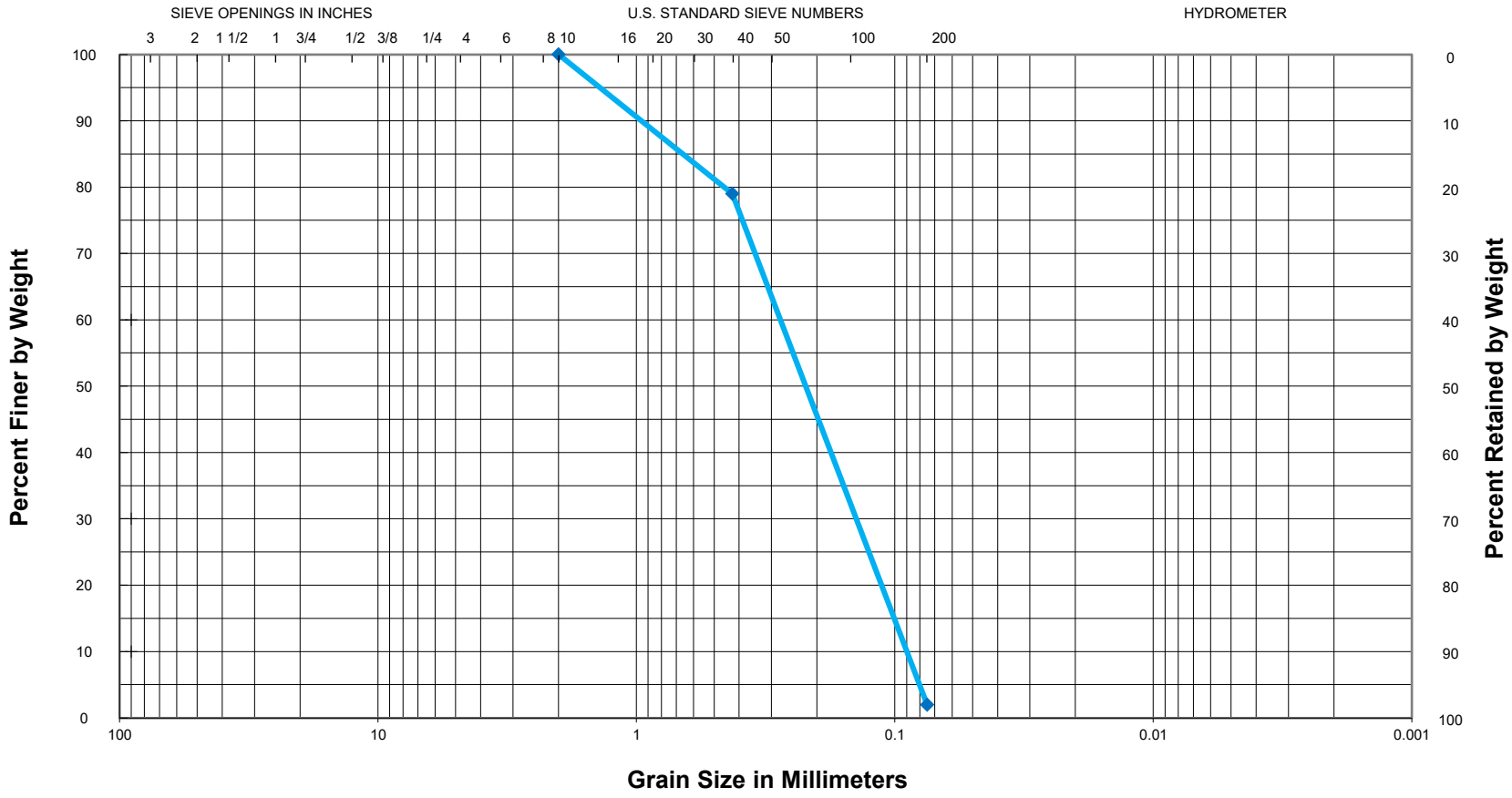
Sample: Boring R-14, 24-25 ft
Description: Reddish tan fine to medium SAND

USCS Classification = SP
AASHTO Classification = A-3

21-071

GRAIN SIZE CURVE

Grubbs, Hoskyn, Barton & Wyatt, INC.
CONSULTING ENGINEERS



GRAVEL		SAND			SILT OR CLAY
COARSE	FINE	COARSE	MEDIUM	FINE	

Sample: Boring R-14, 44-45 ft
Description: Tan fine SAND

USCS Classification = SP
AASHTO Classification = A-3

Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	5/6/2022
Project:	040748 I-49	Tested by:	LLC
Location:	Crawford County, Arkansas	Checked by:	JDF
Sample:	R-13 S-6 & S-7 Comp, 9-15 ft		
Sample Description:	Reddish tan fine sandy SILT		

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.820	2.860	in.	WW	243.68	684.29
2	2.820	2.858	in.	DW	219.96	573.90
3	2.820	2.858	in.	TW	110.85	110.77
Average	2.820	2.859	in.	Water Content	21.74%	23.84%

Sample Weight =	570.95	g
Sample Cross Area =	6.42	sq.in.
Sample Volume =	18.10	cu.in.
Wet Unit Weight =	120.17	lbs/cu.ft.
Dry Unit Weight =	98.71	lbs/cu.ft.

Test Conditions:

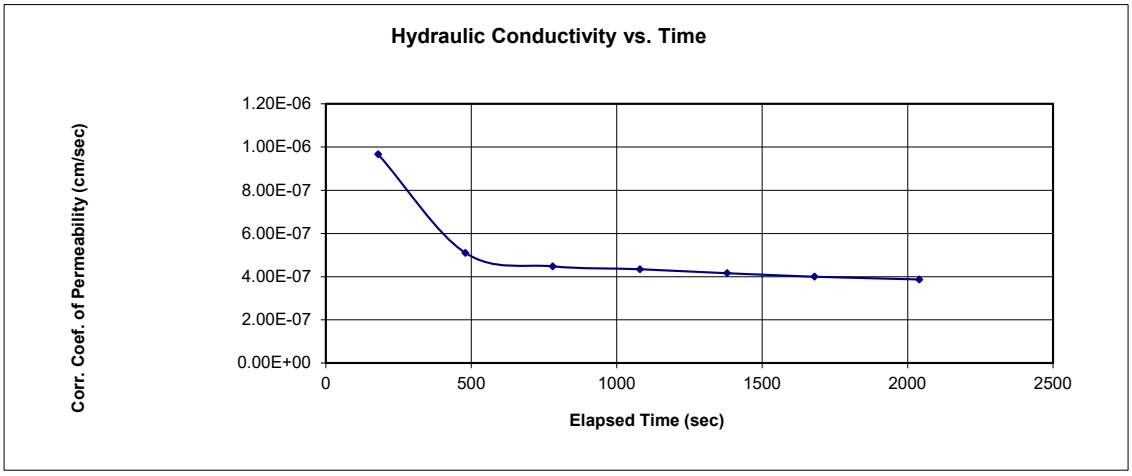
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 0.50 cm Pipette = 26.5 cm Test Cell # 2

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(°C)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
8	3	21	26.5	initial			
8	6	21	17.8	180	8.70	9.90E-07	9.66E-07
8	11	21	15.2	480	11.30	5.22E-07	5.10E-07
8	16	21	12.1	780	14.40	4.59E-07	4.48E-07
8	21	21	9.4	1080	17.10	4.45E-07	4.34E-07
8	26	21	7.6	1380	18.90	4.26E-07	4.16E-07
8	31	21	6.3	1680	20.20	4.10E-07	4.00E-07
8	37	21	5.1	2040	21.40	3.97E-07	3.87E-07
						Mean:	**4.1E-07**



Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	4/24/2023
Project:	040748 Hwy 22 to I-40	Tested by:	LLC
Location:	FE-10	Checked by:	
Sample:	3 2.5-3.0		

Sample Description: Brown fine ~~sandy silt with some clayey silt pockets~~ Silty clay

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.271	2.886	in.	WW	270.36	600.16
2	2.275	2.886	in.	DW	242.85	513.21
3	2.277	2.886	in.	TW	110.30	111.01
Average	2.274	2.886	in.	Water Content	20.75%	21.62%

Sample Weight =	489.39	g
Sample Cross Area =	6.54	sq.in.
Sample Volume =	14.88	cu.in.
Wet Unit Weight =	125.31	lbs/cu.ft.
Dry Unit Weight =	103.77	lbs/cu.ft.

Test Conditions:

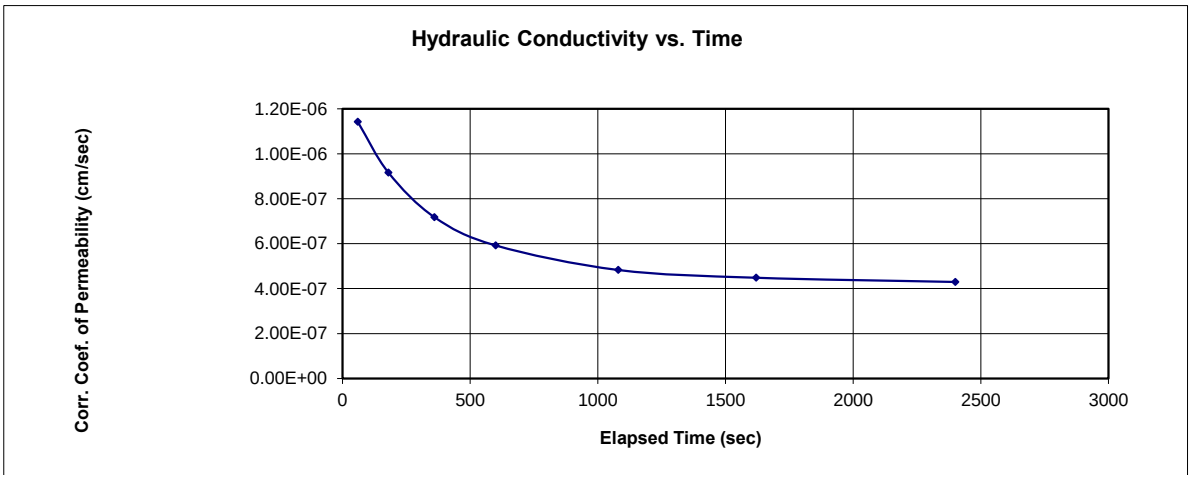
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 1.10 cm Pipette = 19.0 cm Test Cell # 1

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(°C)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
8	50	21	19.0	initial			
8	51	21	15.7	60	3.30	1.17E-06	1.14E-06
8	53	21	12.1	180	6.90	9.39E-07	9.16E-07
8	56	21	9.5	360	9.50	7.36E-07	7.18E-07
9	0	21	7.5	600	11.50	6.07E-07	5.92E-07
9	8	21	5.2	1080	13.80	4.95E-07	4.83E-07
9	17	21	3.6	1620	15.40	4.59E-07	4.48E-07
9	30	21	2.5	2400	16.50	4.40E-07	4.30E-07
						Mean:	**4.9E-07**



Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	4/1/2023
Project:	040748 Hwy 22 to I-40	Tested by:	LLC
Location:	Crawford County, AR	Checked by:	
Sample:	FE-11, 21.5'-22'		

Sample Description: Brown silty clay with fine sand

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.543	2.869	in.	WW	210.37	601.36
2	2.543	2.869	in.	DW	195.83	521.64
3	2.543	2.869	in.	TW	112.20	109.86
Average	2.543	2.869	in.	Water Content	17.39%	19.36%

Sample Weight =	526.21	g
Sample Cross Area =	6.46	sq.in.
Sample Volume =	16.44	cu.in.
Wet Unit Weight =	121.94	lbs/cu.ft.
Dry Unit Weight =	103.88	lbs/cu.ft.

Test Conditions:

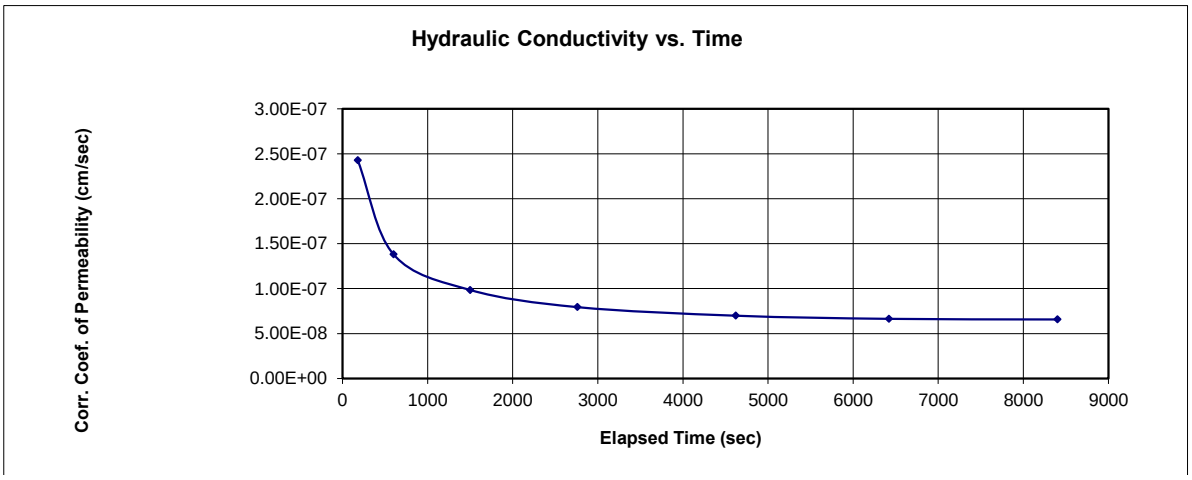
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 1.00 cm Pipette = 19.4 cm Test Cell # 2

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(^oC)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
6	10	22	19.4	initial			
6	13	21	17.4	180	2.00	2.49E-07	2.43E-07
6	20	21	15.8	600	3.60	1.41E-07	1.38E-07
6	35	21	13.5	1500	5.90	1.01E-07	9.85E-08
6	56	21	11.4	2760	8.00	8.14E-08	7.94E-08
7	27	21	9.0	4620	10.40	7.16E-08	6.99E-08
7	57	21	7.2	6420	12.20	6.80E-08	6.64E-08
8	30	21	5.6	8400	13.80	6.73E-08	6.57E-08
						Mean:	**7.0E-08**



Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	4/25/2023
Project:	040748 Hwy 22 to I-40	Tested by:	LLC
Location:	FP-14	Checked by:	
Sample:	4 3-3.5		

Sample Description: Brown silty clay

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.254	2.832	in.	WW	340.12	563.26
2	2.251	2.832	in.	DW	293.80	468.34
3	2.255	2.832	in.	TW	110.05	110.05
Average	2.253	2.832	in.	Water Content	25.21%	26.49%

Sample Weight =	450.29	g
Sample Cross Area =	6.30	sq.in.
Sample Volume =	14.19	cu.in.
Wet Unit Weight =	120.86	lbs/cu.ft.
Dry Unit Weight =	96.52	lbs/cu.ft.

Test Conditions:

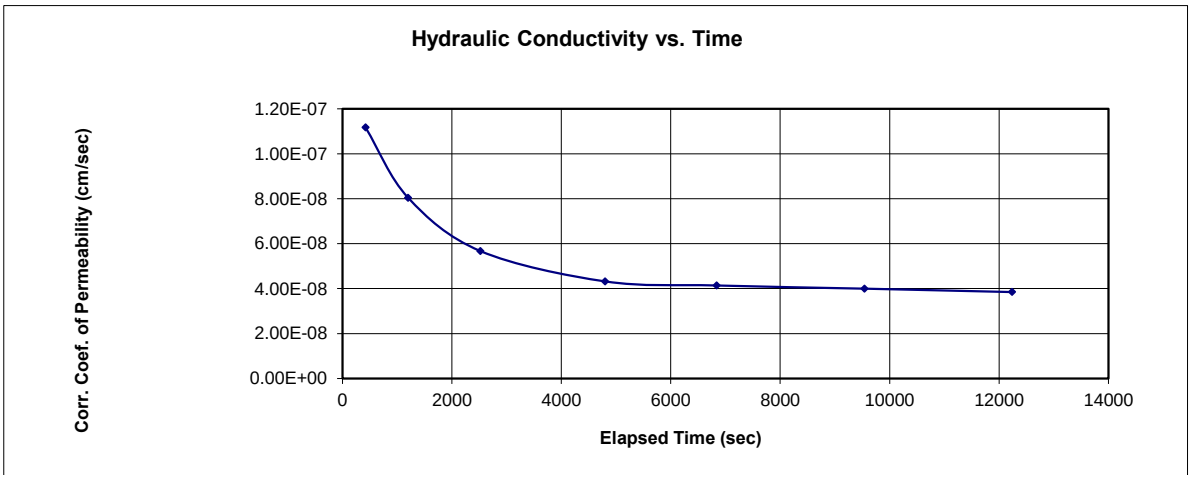
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 1.00 cm Pipette = 19.1 cm Test Cell # 2

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(^oC)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
7	10	21	19.1	initial			
7	17	21	16.8	420	2.30	1.14E-07	1.12E-07
7	30	21	14.7	1200	4.40	8.24E-08	8.04E-08
7	52	21	13.0	2520	6.10	5.81E-08	5.67E-08
8	30	21	11.0	4800	8.10	4.43E-08	4.32E-08
9	4	21	9.1	6840	10.00	4.24E-08	4.14E-08
9	49	21	7.2	9540	11.90	4.10E-08	4.00E-08
10	34	21	5.9	12240	13.20	3.94E-08	3.85E-08
						Mean:	**4.1E-08**



APPENDIX C
Levee Stability and Seepage Analysis Results

Levee Stratigraphy Package

Project: I-49	Job No: 63136	Design Criteria Document:
Client: ARDOT	Discipline: Geotechnical	Calculation No: 0

Name or Description of Calculation: Levee Cross section profile and stratigraphy

Note: Unique QF 06 to be created for each revision of a calculation.

Calc. Rev. No.	Description of Change (i.e., Original Issue or description of changes since last revision)	Confirmation required with other deliverables (Y/N)	List Deliverables for which confirmation is required (NA if none) Add additional rows as necessary	Confirmation Verified by Originator of Calc for each deliverable listed (Y/N)
0	Original Issue			

Calculation Objective:
To describe subsurface profile and assign strength parameters such as cohesion and friction angle where applicable.

Calculation Methodology/List of Assumptions:

1. Cohesion and friction angle based on available lab data and engineering judgement
2. Soil classification based on boring fence profile
3. R-cohesion and R- friction angle are assumption based on soil types.

References/Inputs:

1. Fence diagram
2. Lab test results
3. Boring logs
4. N value – Friction angle correlation

Attachments: (List each attachment following the subject calculation)

1. Fence diagram
2. Lab test results
3. Boring logs
4. Levee cross section profile

Conclusions:
Soils layers are stratified, and cohesion and friction angle parameters are assigned. These strength parameters will be applicable for slope stability analysis.

Material	Elevation (ft)	Cohesion (psf)	Friction Angle (N value correlation) deg	Unit Weight (pcf)
Embankment (CL)	408.6 to 400	1000	28	125
Silty Clay	400 to 380	1300 psf (lab test)	28	120
Sandy Silt	380 to 370	0	30	110
Sand	370 to 348	0	32	120
Shale	348 and below	4000	40 (Assumption)	160

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Document Check:	Name	Signature	Date
Originator:	**Pradip Adhikari**	**PA**	**06/09/2023**
Checker:	Michael De Stigter	MJLD	06/12/2023
Backchecker:	Pradip Adhikari	PA	06/12/2023
Updater:	Pradip Adhikari	PA	06/12/2023
Verifier:	Michael De Stigter	MJLD	06/12/2023

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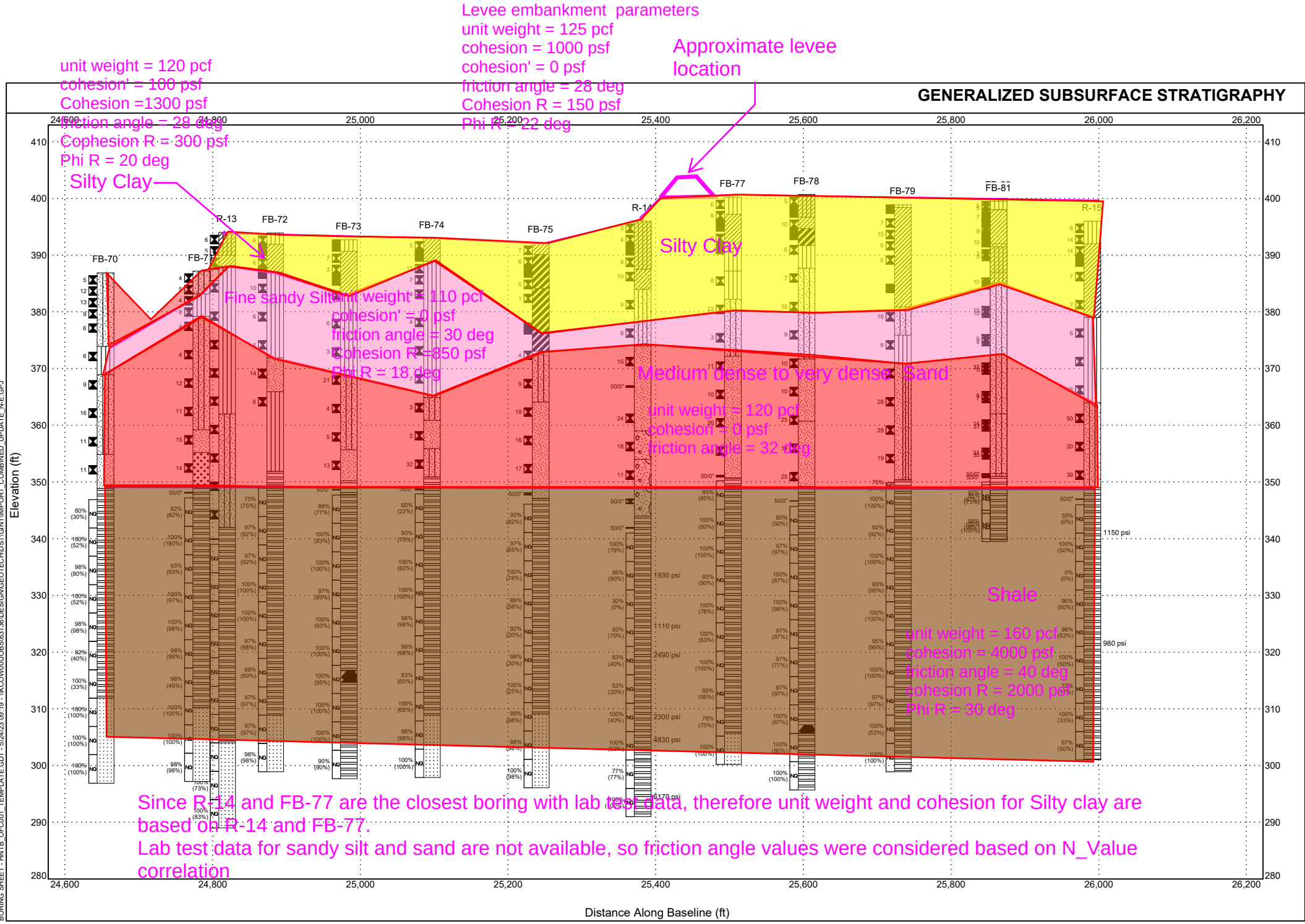
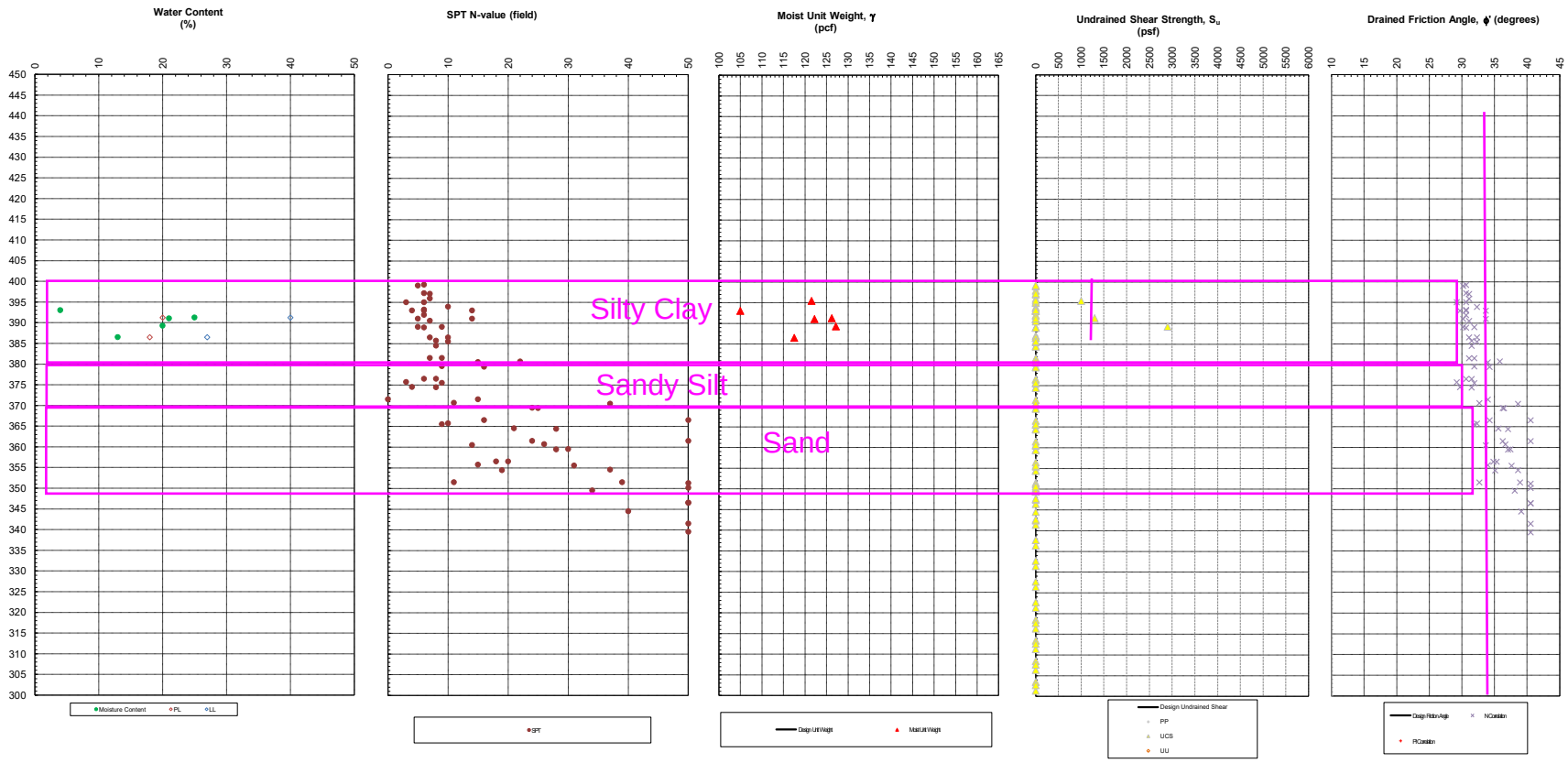


Since R-14 and FB-77 are the closest boring with lab test data, therefore unit weight and cohesion for Silty clay are based on R-14 and FB-77.

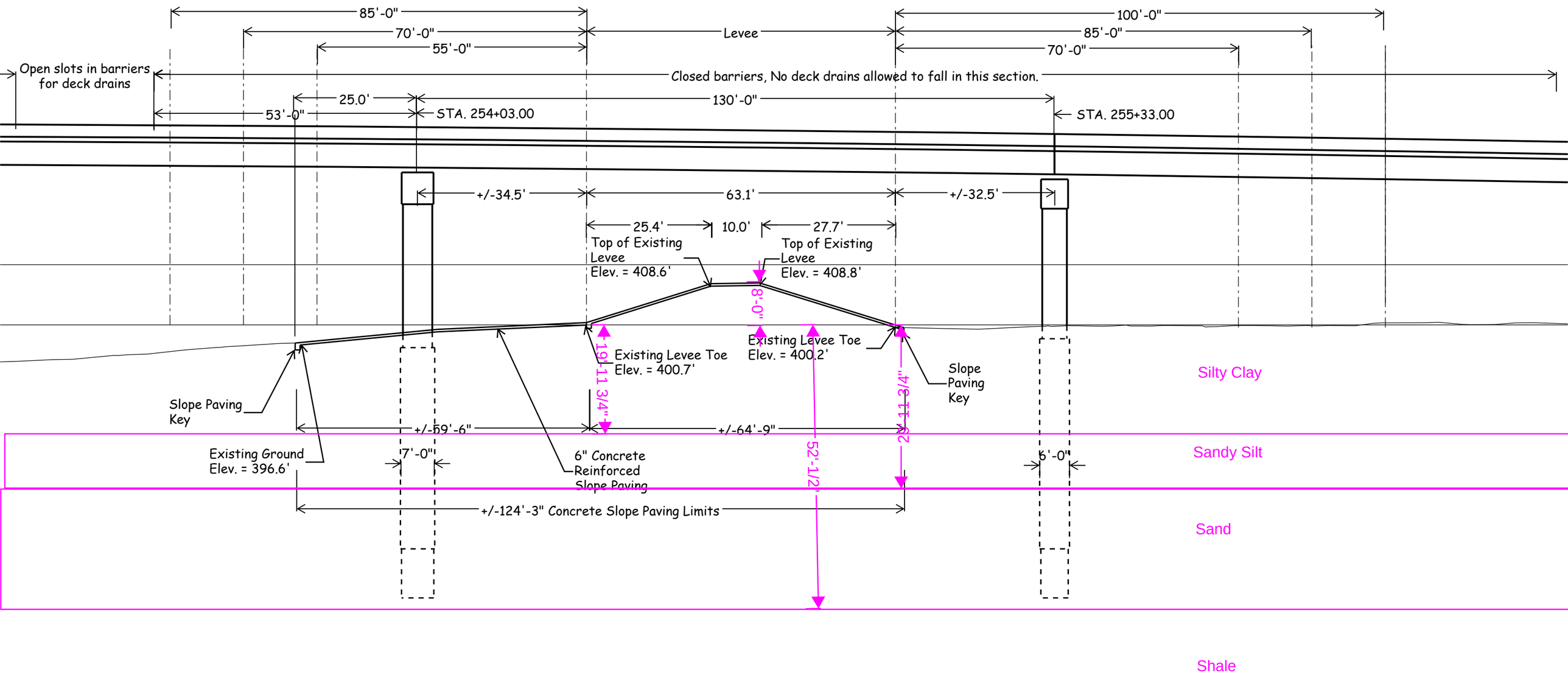
Lab test data for sandy silt and sand are not available, so friction angle values were considered based on N_Value correlation

Permeability test result from Boring FE-10, FE-11and FP-14 were used for hydraulic conductivity parameter in a separate package.



Note:

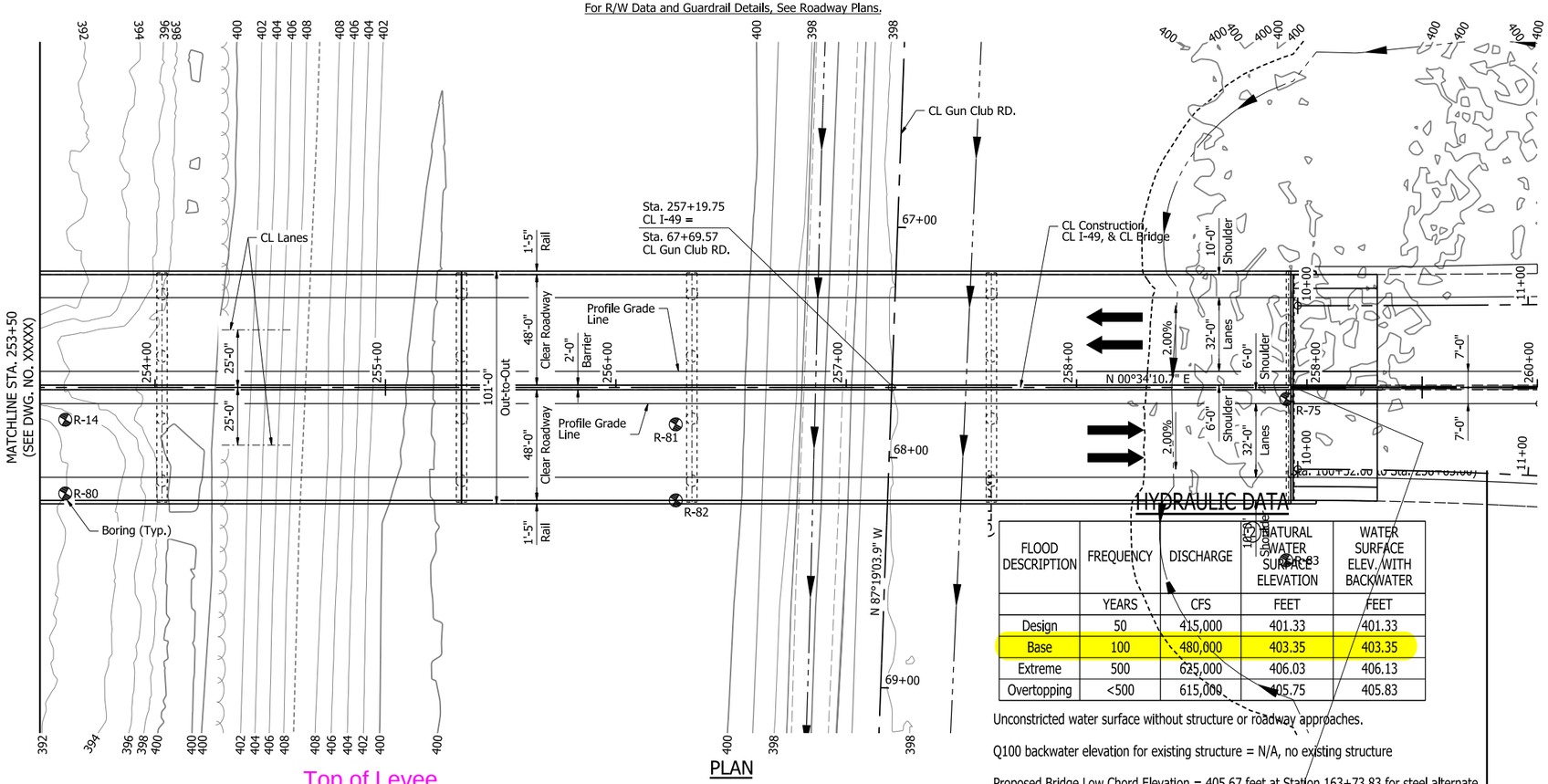
I-49 **Fort Smith, Arkansas**	**Project:** I-49 **Project No.:** 63136 **Structure:** **Location:** **Boring:**	**Originator** PA **Checker:** MJD **Backchecker:** **Updater:** **Verifier:**	**Date:** 5/24/2023 **Date:** 5/24/2023 **Date:** **Date:** **Date:**	**Shear Lines vs. Depth** HNTB



Cross section of Levee looking west

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901		
		16 - BRIDGE LAYOUTS -				

For R/W Data and Guardrail Details, See Roadway Plans.

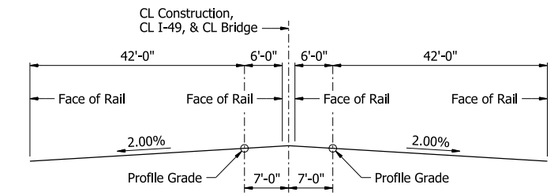


PLAN

Notes:
Use Type C Approach Gutters (W=10'-0") & Type C1 Approach Slabs (W=62'-0") at beginning of bridge.

For General Notes, see Dwg. No. XXXXX.

All bents are normal to CL I-49.



SUPERELEVATION DIAGRAM
Looking Ahead

Cross Slope constant 2.00%
(Sta. 242+02.00 to Sta. 258+94.00)

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	50	415,000	401.33	401.33
Base	100	480,000	403.35	403.35
Extreme	500	625,000	406.03	406.13
Overtopping	<500	615,000	405.75	405.83

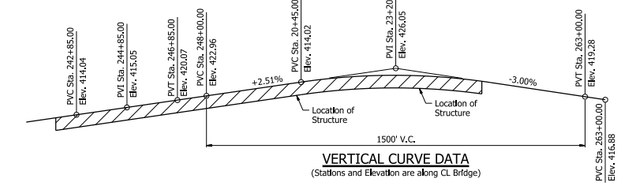
Unconstricted water surface without structure or roadway approaches.

Q100 backwater elevation for existing structure = N/A, no existing structure

Proposed Bridge Low Chord Elevation = 405.67 feet at Station 163+73.83 for steel alternate.
Proposed Bridge Low Chord Elevation = 404.76 feet at Station 163+73.83 for concrete alternate.

Drainage Area = 151,000 square miles.

Historical H.W. Elev. = 406.96 feet (from USGS stream gage 07250550 on June 1, 2019 with a Stream-flow of 570,000 cfs)



VERTICAL CURVE DATA
(Stations and Elevation are along CL Bridge)

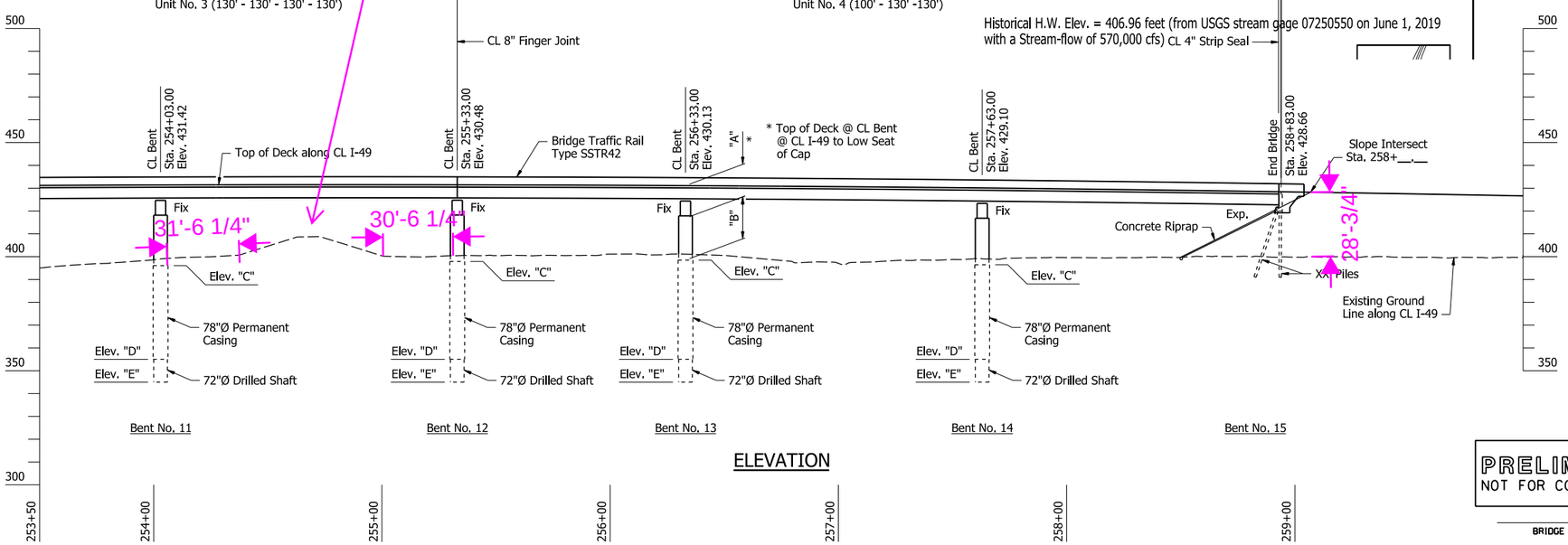
Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

Total Length of Bridge = 1690'-0"

520'-0" Continuous Composite Plate Girder
Unit No. 3 (130' - 130' - 130' - 130')

350'-0" Continuous Composite Plate Girder
Unit No. 4 (100' - 130' -130')

1'-2"



ELEVATION

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 11	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX
Bent No. 12	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX
Bent No. 13	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX
Bent No. 14	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX

SHEET 3 OF 3
LAYOUT OF BRIDGE NO. 16
I-49 OVER LEVEE & GUN CLUB RD.
HWY. 22 - GUN CLUB RD.
CRAWFORD COUNTY

ROUTE I-49 SEC. XX

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: FILENAME: 16 Layout 3.dgn
CHECKED BY: DATE: SCALE: 1" = 60'
DESIGNED BY: DATE:
BRIDGE NO. 0XX16 DRAWING NO.

PRINT DATE: 9/4/2022

(Sta. 160+52.00 to Sta. 258+65.00)

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	(2) NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	50	415,000	401.33	401.33
Base	100	480,000	403.35	403.35
Extreme	500	625,000	406.03	406.13
Overtopping	<500	615,000	405.75	405.83

Unconstricted water surface without structure or roadway approaches.

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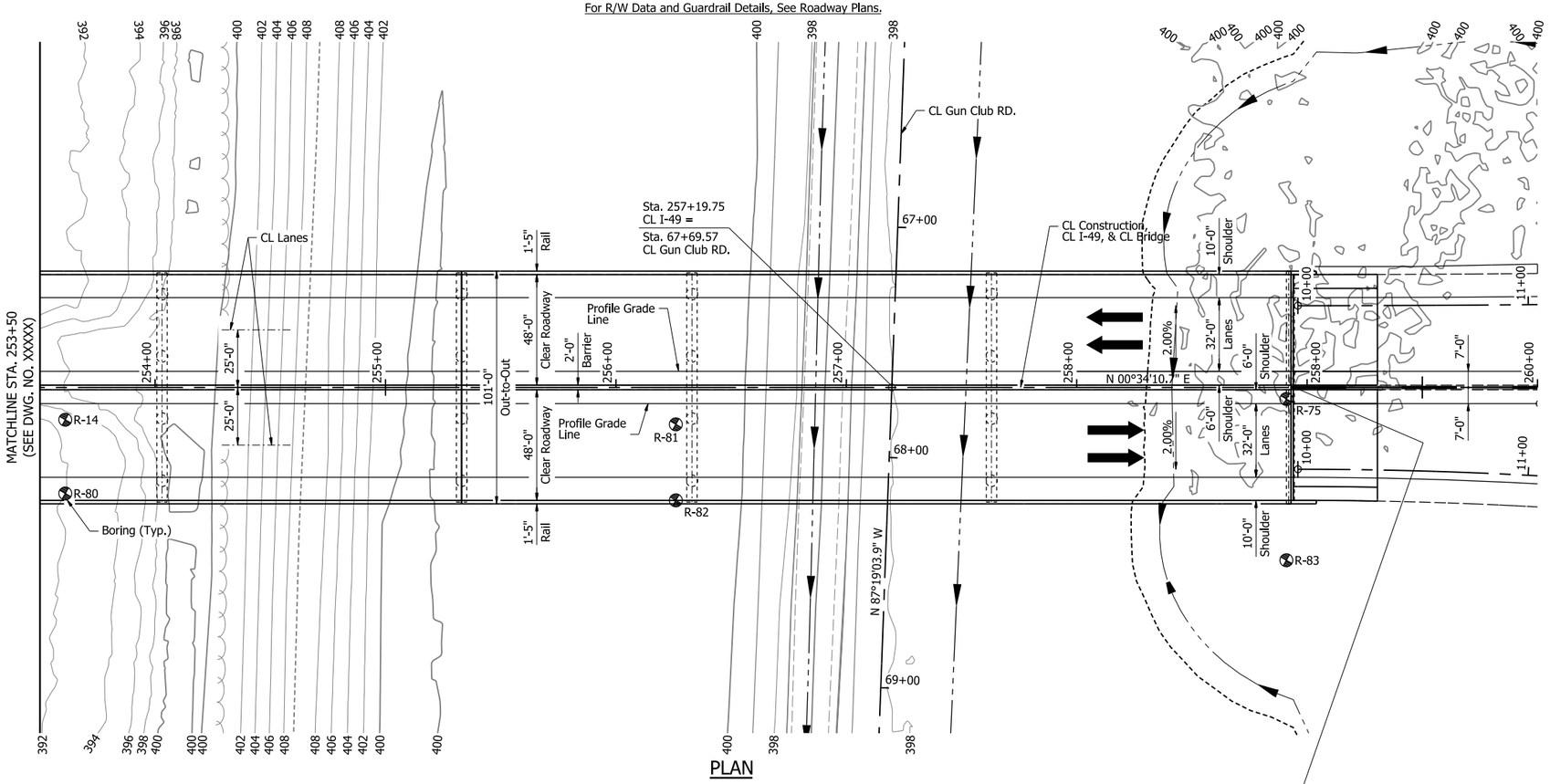
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901		
		16 - BRIDGE LAYOUTS -				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Notes:
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For General Notes, see Dwg. No. XXXXX.

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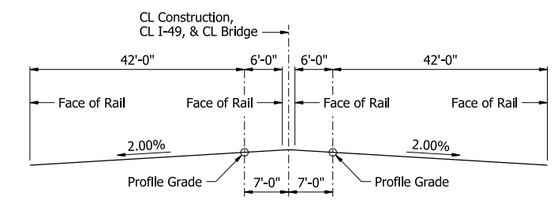
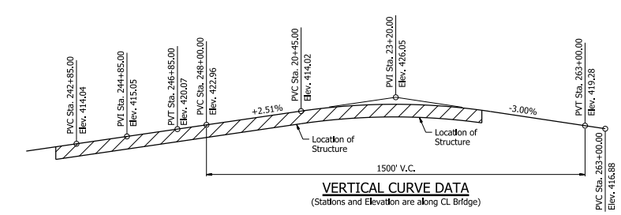


SUPERELEVATION DIAGRAM
Looking Ahead

Cross Slope constant 2.00%
(Sta. 242+02.00 to Sta. 258+94.00)



VERTICAL CURVE DATA
(Stations and Elevation are along CL Bridge)

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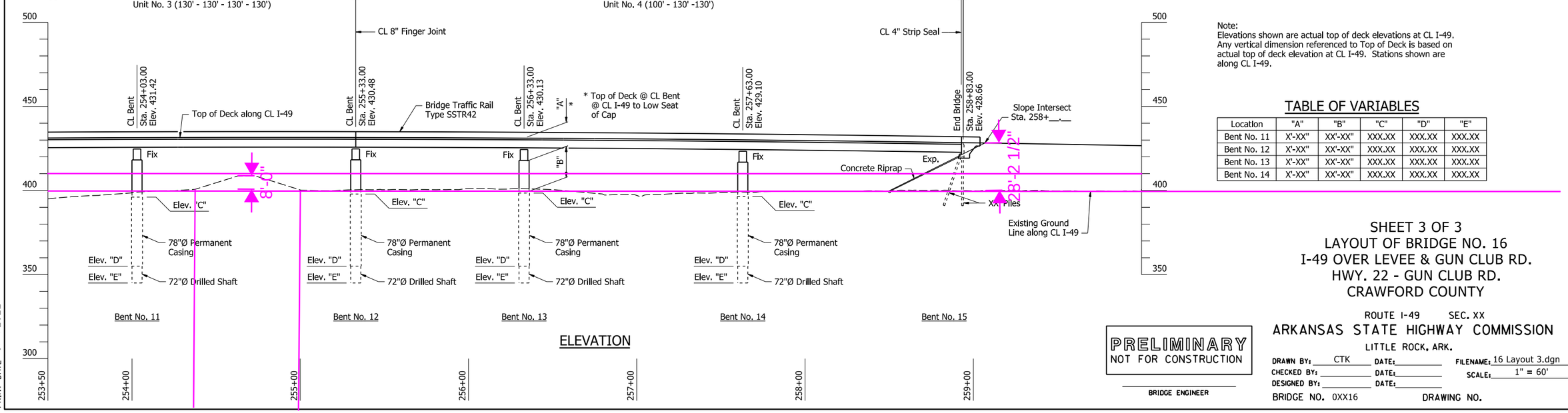
520'-0" Continuous Composite Plate Girder
Unit No. 3 (130' - 130' - 130' - 130')

350'-0" Continuous Composite Plate Girder
Unit No. 4 (100' - 130' -130')

1'-2"



ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 11	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX
Bent No. 12	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX
Bent No. 13	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX
Bent No. 14	X'-XX"	XX'-XX"	XXX.XX	XXX.XX	XXX.XX

SHEET 3 OF 3
LAYOUT OF BRIDGE NO. 16
I-49 OVER LEVEE & GUN CLUB RD.
HWY. 22 - GUN CLUB RD.
CRAWFORD COUNTY

ROUTE I-49 SEC. XX

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE:
CHECKED BY: DATE:
DESIGNED BY: DATE:
FILENAME: 16 Layout 3.dgn
SCALE: 1" = 60'

BRIDGE NO. 0XX16 DRAWING NO.

PRINT DATE: 9/4/2022

Lab Data

SUMMARY of SOIL COMPRESSION TEST RESULTS

WEI

PROJECT: 040748 Hwy 22 to I-40

LOCATION: Crawford & Sebastian Counties, Arkansas

GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	DRY UNIT WEIGHT (lbs/ft3)	CONFINING PRESSURE (lbs/in.2)	UNDRAINED SHEAR STRENGTH (cohesion, su)(lbs/ft2)	COMPRESSION - HAND PENETROMETER, (tons/ft2)	COHESION, su (tons/ft2)	COHESION - HAND PENETROMETER, (tons/ft2)
FB-73	6.5-7	25	101	---	1200	2.24	0.6	0.75
FB-75	4.5-5	28	96	---	1600	2.58	0.8	0.86
FB-75	9-10	28	81	---	---	---	---	---
FB-77	4-4.5	24	98	---	1000	2.14	0.5	0.71
FB-78	6.5-7	21	104	---	2240	3.18	1.12	1.06
FB-78	7-7.5	19	108	---	4160	4.4	2.08	1.47
FB-79	1-1.5	23	104	---	940	2	0.47	0.67
FB-79	13-13.5	24	100	---	660	1.2	0.33	0.40
FB-80	4-4.5	23	102	---	2020	3.5	1.01	1.17
FB-80	5.5-6	21	104	---	1540	2.8	0.77	0.93

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	DRY UNIT WEIGHT (lbs/ft^3)	CONFINING PRESSURE ($lbs/in.^2$)	UNDRAINED SHEAR STRENGTH (cohesion, s_u)(lbs/ft^2)
E-313	0.5-1.5	14	116	---	---
E-313	4.5-5	16	109	---	2040
R1A	2.5-3	28	92	---	1780
R-1A	5.5-6	24	100	5	1990
R-1A	6-6.5	27	99	6	2660
R2A	3-3.5	32	87	---	220
R2A	4-4.5	30	85	6	340
R-3	6.5-7	32	87		670
R-14	4-4.5	25	101	5	1300
R-15	6.5-7	20	106	6	2900
W-2	6-6.5	14	117	---	2700
W-3	7-7.5	18	110	---	1780
W-5	7-7.5	25	100	---	1120
W-5	14.5-15	18	111	13	3060
W-6	6.5-7	16	110	---	1820
W-7	4.5-5.5	11	114	---	---
W-7	9-9.5	20	109	---	1020

Notes:

1. NS = sample not suitable for compression testing
2. If no confining pressure shown, test is an unconfined compression test performed per AASHTO T 296.
3. Where a confining pressure is indicated, the test is an Unconsolidated-Undrained Triaxial compression test performed per AASHTO T 208.

SUMMARY of CLASSIFICATION TEST RESULTS

PROJECT: 040748 Hwy 22 to I-40
LOCATION: Crawford & Sebastian Counties, Arkansas
GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	ATTERBERG LIMITS			SIEVE ANALYSIS PERCENT PASSING								USCS CLASS.	AASHTO CLASS.
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2 in.	1 in.	3/4 in.	3/8 in.	#4	#10	#40	#200		
R-12	6.5-7.5	18	NON-PLASTIC			---	---	---	---	95	---	---	82	ML	A-4
R-12	9-10	17	NON-PLASTIC			---	---	---	---	---	---	---	70	ML	A-4
R-12	24-25	24	---	---	---	---	---	---	---	100	99	98	9	SM-SP	A-3
R-12	39-40	19	---	---	---	100	100	100	100	100	100	91	8	SM-SP	A-3
R-13	4.5-5.5	29	43	23	20	---	---	---	---	---	---	---	---	CL	A-7-6
R-13	9-10	22	NON-PLASTIC			---	---	---	---	---	---	---	90	ML	A-4
R-13	19-20	29	NON-PLASTIC			---	---	---	---	---	---	---	---	ML	A-4
R-13	39-40	14			---	100	100	100	100	100	99	70	10	SM-SP	A-3
R-14	4-4.5	25	40	20	20	---	---	---	---	---	---	---	---	CL	A-6
R-14	9-10	13	27	18	9	---	---	---	---	---	---	---	---	CL	A-4
R-14	14-15	8	NON-PLASTIC			---	---	---	---	---	---	---	---	ML	A-4
R-14	24-25	---	---	---	---	100	100	100	100	100	99	63	2	SP	A-3
R-14	44-45	---	---	---	---	100	100	100	100	100	100	79	2	SP	A-3

SUMMARY of CLASSIFICATION TEST RESULTS

PROJECT: 040748 Hwy 22 to I-40
LOCATION: Crawford & Sebastian Counties, Arkansas
GHBW JOB NUMBER: 21-071

BORING No.	SAMPLE DEPTH (ft)	WATER CONTENT (%)	ATTERBERG LIMITS			SIEVE ANALYSIS PERCENT PASSING								USCS CLASS.	AASHTO CLASS.
			LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	2 in.	1 in.	3/4 in.	3/8 in.	#4	#10	#40	#200		
R-15	4.5-5.5	21	42	20	22	---	---	---	---	---	---	---	87	CL	A-7-6
R-15	6.5-7	20	38	17	21	---	---	---	---	---	---	---	---	CL	A-6
R-15	29-30	18	NON-PLASTIC			---	---	---	---	---	---	---	---	ML	A-4
R-15	39-40	15	---	---	---	100	100	100	92	89	87	71	4	SP	A-3
W-1	6.5-7.5	12	---	---	---	100	88	65	45	34	25	20	7	GM-GP	A-1-a
W-2	9-10	18	25	18	7	---	---	---	---	---	---	---	---	CL-ML	A-4
W-3	9-10	19	20	18	2	---	---	---	---	---	---	---	---	SM-SP	A-2-4
W-4	9.5-10	11	25	17	8	100	100	100	92	90	87	83	54	CL	A-4
W-5	14.5-15	25	28	18	10	---	---	---	---	---	---	---	---	CL	A-4
W-6	14-15	17	23	17	6	---	---	---	---	---	---	---	---	CL-ML	A-4
W-7	9-9.5	23	28	19	9	---	---	---	---	100	---	---	87	CL	A-4

Boring Logs

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-13

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA to 30 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.36026°N -94.28080° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 389.2	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown clayey silt (CL-ML)	6 5					
5			Soft reddish brown silty clay (CL)	5					
10			Loose reddish tan fine sandy silt w/occasional clay seams and layers (ML)	8		-NON-PLASTIC-	90		
15				9					
20			- very loose to loose at 18 to 22 ft	4		-NON-PLASTIC-			
25			- medium dense below 22 ft	24					
30				21					
35			Dense tan fine sand, slighty silty (SM-SP)	30					
40				37			10		
				34					

COMPLETION DEPTH: 105.0 ft
DATE: 3-7-22

DEPTH TO WATER IN BORING: 28.6 ft

DATE: 3/7/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-13

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA to 30 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.36026°N -94.28080° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
50				40					
55			Moderately hard dark gray shale, slightly weathered	50/1"	155	q_u= 720 psi, TUW= 156 pcf		93	85
60								100	88
65			- with numerous fractures and occasional highly weathered seams and layers at 65 to 75 ft - with near vertical fracture at 67 to 67.4 ft					88	24
70								92	40
75			- with coal seams and layers at 76 to 77.5 ft - with highly weathered layer at 77.5 to 79 ft		153	q_u= 1250 psi, TUW= 158 pcf		100	75
80								75	35
85			- with multiple very thin sandstone partings below 87 ft		160	q_u= 4370 psi, TUW= 162 pcf		100	88

COMPLETION DEPTH: 105.0 ft
DATE: 3-7-22

DEPTH TO WATER IN BORING: 28.6 ft

DATE: 3/7/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-13

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA to 30 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.36026°N -94.28080° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard light gray fine-grained sandstone w/very close, very thin shale partings					82	82
95			- with pyrite inclusions below 93.9 ft		161	q_u= 4010 psi, TUW= 163 pcf		100	73
100			- with vertical fractures at 98 to 98.2, 100.6 and 103.8 ft		163	q_u= 8150 psi, TUW= 165 pcf		100	83
105			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
110									
115									
120									
125									
130									

COMPLETION DEPTH: 105.0 ft
DATE: 3-7-22

DEPTH TO WATER IN BORING: 28.6 ft

DATE: 3/7/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.361807° N -94.280751° E

SURF. EL: 397.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT – WATER CONTENT – LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very soft reddish brown silty clay (CL)	3					
			- very soft to soft at 2 to 4 ft	4					
5			- firm below 4 ft		101				
				9					
10			Firm to stiff reddish tan fine sandy clay (CL)	10					
15			Loose reddish tan fine sandy silt (ML)	9		-NON-PLASTIC-			
20				8					
25			Medium dense reddish tan fine to medium sand (SP)	15			2		
30			- dense from 28 to 32 ft	50/4"					
35			- medium dense below 32 ft	24					
			Medium dense tan fine to coarse sand w/occasional fine to coarse gravel (SP)	18					

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.361807° N -94.280751° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Medium dense tan fine sand (SP)	11			2		
45			- very dense below 47 ft						
			Dense to very dense tan fine to coarse sand w/some fine to coarse gravel (SP)	50/10"					
50									
			Moderately hard dark gray shale w/occasional sandstone partings, horizontal bedding	50/2"					
55								100	78
60					157	● q_u= 1930 psi, TUW= 162 pcf		95	80
65			- with numerous fractures, little recovery, core barrel plugged due to softer, more weathered shale layers from 65 to 70 ft					30	0
70					152	● q_u= 1110 psi, TUW= 158 pcf		93	70
75			- with partially healed high angle fractures at 74 to 74.3 ft and 77 to 77.9 ft		155	● q_u= 2490 psi, TUW= 161 pcf		83	40

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55 LOCATION: 35.361807° N -94.280751° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with some coal layers washing away from 80 to 82.5 ft					53	20
85			- coal layer at 87.3 to 88.5 ft		156	q_u= 2300 psi, TUW= 162 pcf		100	40
90			- with more fine-grained sandstone inclusions below 92 ft		162	q_u= 4830 psi, TUW= 164 pcf		100	52
95			Moderately hard to hard dark gray shale w/very close, very thin, interbedded fine-grained sandstone partings, horizontal bedding - with more frequent sandstone partings below 97 ft					77	77
100					163	q_u= 6170 psi, TUW= 164 pcf		100	100
105			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
110									
115									

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

SURF. EL: 399.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown silt (ML), dry	6					
			- medium dense below 2 ft	14					
5			Stiff brown to reddish brown silty clay, slightly sandy (CL)	14			87		
			- firm with more silt below 6 ft		106				
10				7					
15				7					
			Loose reddish brown silt (ML), moist						
20				6					
			- slightly sandy below 22 ft - very loose at 22 to 27 ft						
25				WOH					
			- medium dense below 27 ft						
30				16		-NON-PLASTIC-			
			Dense to very dense reddish tan silty fine sand (SM) w/occasional fine-gravel						
35				50					
			- medium dense at 37 to 42 ft - with less silt below 37 ft						
				20			4		

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- dense below 42 ft	39					
45									
			Moderately hard dark gray shale, flat bedded w/numerous multi-directional fractures and close coal seams	50/1"					
50								33	0
55						q_u= 1150 psi, TUW= 160 pcf		100	50
60			- core barrel blocked at 60 to 65 ft					0	0
65						TUW= 158 pcf		96	60
70						q_u= 980 psi, TUW= 161 pcf		98	83
75								100	50

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
						TUW= 153 pcf		72	17
85								100	33
90			- with very close coal seams below 90 ft			TUW= 159 pcf		67	50
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
100									
105									
110									
115									

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Draft Boring

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-70

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 40 ft /NQ 2 Core-CME-55 LOCATION: See Plate 1

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 386.9	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan silty fine sand (SM)	5					
			- medium dense, brown with occasional silt seams at 2 to 6 ft	12					
5			- tan below 4.5 ft	13					
				9					
10				6					
			Loose brown brown fine sandy silt (ML)	6					
15									
			Loose tan silty fine sand (SM)	9					
20									
			- medium dense below 22 ft	16					
25									
30				11					
			Medium dense tan and brown fine to coarse sand w/a little fine to coarse gravel (SM)	11					

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE:

DEPTH TO WATER IN BORING:

DATE:

RECRQDN200-2 21-071_FB LOGS.GPJ 4-19-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-70

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 40 ft /NQ 2 Core-CME-55 LOCATION: See Plate 1

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale - with highly weathered layer at 40 to 40.2 ft						
40								80	30
45								100	52
50								98	80
55								100	52
60								98	98
65								92	40

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE:

DEPTH TO WATER IN BORING:

DATE:

RECRQDN200-2 21-071_FB LOGS.GPJ 4-19-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-70

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 40 ft /NQ 2 Core-CME-55 LOCATION: See Plate 1

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with coal bed at 69.6 to 71.3 ft - with multiple close shale seams below 70 ft					100	33
75			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
80								100	100
85								100	100
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by EB. NOTE 3: Logged by DRM.						
95									
100									

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE:

DEPTH TO WATER IN BORING:

DATE:

RECRQDN200-2 21-071_FB LOGS.GPJ 4-19-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-71

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 10 ft /Wash 40 ft /NQ 2-Core-CME-55 LOCATION: 35.360162°N, 94.280965°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 387.2	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan silty fine sand (SM)	4					
			- loose with silt seams and layers below 2 ft	5					
5			Very loose to loose reddish brown fine sandy silt (ML), moist w/occasional decayed organics	4					
			- loose below 6 ft	6					
			Loose reddish tan silty fine sand (SM)	4					
10			- very loose to loose at 8 to 12 ft						
			- medium dense below 12 ft						
15				4					
20				12					
25				11					
30			Medium dense reddish tan fine to medium sand (SP)	15					
35			Medium dense tan fine to coarse sand w/some fine gravel (SW)	14					
			Moderately hard dark gray shale, slightly weathered	50/2"					

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-4-23

DEPTH TO WATER IN BORING: 8.3 ft

DATE: 3/28/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-71

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 10 ft /Wash 40 ft /NQ 2-Core-CME-55 LOCATION: 35.360162°N, 94.280965°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding					82	82
45								100	100
50								93	93
55								100	96
60								100	98
65								98	98
70			- with more sandstone partings and small inclusions at 68.5 to 69.4 ft - with coal bed at 72.5 to 74.2 ft					98	45
75								100	100
			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings,						

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-4-23

DEPTH TO WATER IN BORING: 8.3 ft

DATE: 3/28/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-11-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-71

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 10 ft /Wash 40 ft /NQ 2-Core-CME-55 LOCATION: 35.360162°N, 94.280965°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			horizontal bedding					100	100
85								98	98
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
95									
100									
105									
110									
115									

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-4-23

DEPTH TO WATER IN BORING: 8.3 ft

DATE: 3/28/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-11-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-72

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2 Core-CME-55

LOCATION: 35.360440°N, -94.280723°E

SURF. EL: 393.9

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown silt w/trace clay (ML)	6					
			Soft reddish brown silty clay (CL)						
5				6					
			Medium dense reddish tan fine sandy silt (ML)						
10				10					
15				6					
20			- brown with less sand below 18 ft	4					
			Medium dense brown fine to coarse sand w/some fine to coarse gravel (SP)						
25				14					
			Loose brown fine sandy silt (ML)						
30				6					

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-26-23

DEPTH TO WATER IN BORING: 13.9 ft

DATE: 3/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-72

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2 Core-CME-55 LOCATION: 35.360440°N, -94.280723°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
40									
45			Moderately hard dark gray shale, horizontal bedding			q_u= 540 psi, TUW= 161 pcf		75	75
50								97	92
55						q_u= 1080 psi, TUW= 160 pcf		97	92
60						q_u= 2210 psi, TUW= 160 pcf		100	100
65								100	100

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-26-23

DEPTH TO WATER IN BORING: 13.9 ft

DATE: 3/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-72

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2 Core-CME-55 LOCATION: 35.360440°N, -94.280723°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								97	88
75								88	60
			- with coal bed at 78.2 to 80 ft			q_u= 1050 psi, TUW= 165 pcf			
80								97	97
85			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin shale partings, horizontal bedding			q_u= 4690 psi, TUW= 167 pcf		97	97
90						q_u= 4310 psi, TUW= 159 pcf		98	98
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
100									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-26-23

DEPTH TO WATER IN BORING: 13.9 ft

DATE: 3/26/2023

21-071

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

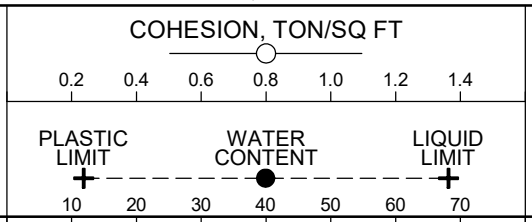
LOG OF BORING NO. FB-73

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 15 ft /Wash 45 ft /NQ2 Core-CME-55 LOCATION: 35.360711°N, -94.280999°E

SURF. EL: 392.7

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	- No. 200 %	% Recovery	% RQD
	Soft brown clayey silt (ML)					
	Soft brown silty clay (CL) w/some silt pockets	7				
5	- very soft below 4.5 ft	3	100			
	- firm to stiff below 9 ft	11				
10	Medium dense reddish brown fine sandy silt (ML)					
15	- loose below 14 ft	6				
20	- very loose below 18.5 ft - slightly clayey below 19 ft	3				
25	Medium dense tan silty fine sand (SM)	21				
30	- very loose below 29 ft	4				
35		5				
40	Medium dense tan fine to coarse sand w/some fine to coarse gravel (SP)	13				
	Moderately hard dark gray shale, slightly weathered	50/1"				



DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-21-23

DEPTH TO WATER IN BORING: 14 ft

DATE: 3/20/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-73

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 15 ft /Wash 45 ft /NQ2 Core-CME-55 LOCATION: 35.360711°N, -94.280999°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding			q_u= 1140 psi, TUW= 167 pcf		88	77
50								100	83
55								100	100
60			- with occasional clayey shale partings below 60 ft					97	93
65								100	93
70						q_u= 1550 psi, TUW= 163 pcf		100	100
75									
			Moderately hard black coal					100	95
80			Hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding - with occasional pyrite inclusions below 80 ft					100	100
85			Moderately hard dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	100

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-21-23

DEPTH TO WATER IN BORING: 14 ft

DATE: 3/20/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-73

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 15 ft /Wash 45 ft /NQ2 Core-CME-55 LOCATION: 35.360711°N, -94.280999°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								90	90
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM.						
100									
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-21-23

DEPTH TO WATER IN BORING: 14 ft

DATE: 3/20/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-74

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2-CORE-CME-55 LOCATION: 35.361023°N, -94280739°E

SURF. EL: 392.9

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft reddish brown silty clay w/rootlets (CL)	5					
5			Medium dense reddish brown and reddish tan fine sandy silt (ML)	11					
			- loose at 6 to 8 ft	7					
			- very loose at 8 to 22 ft	4					
10									
			- water at 13 ft	4					
15									
20				2					
			- loose, dark brown below 22 ft	7					
25									
30			Very loose brown silty fine sand (SM)	3					
35			Very loose brown and tan fine to medium sand, slightly silty (SP)	2					
			Dense tan and brown fine to coarse sand w/some fine to coarse gravel (SM)	32					

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-27-23

DEPTH TO WATER IN BORING: 13 ft

DATE: 3/27/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-74

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2-CORE-CME-55 LOCATION: 35.361023°N, -94280739°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding						
45			- with occasional gray sandstone partings below 45 ft - with more fractures from 45 to 50 ft	50/3"				60	22
50								90	70
55			- with near vertical fractures at 55.8 to 56.1 ft					100	83
60								100	100
65								98	98
70								98	98
75			- with some sandstone partings below 75 ft - with coal bed at 78 to 80 ft					83	60

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-27-23

DEPTH TO WATER IN BORING: 13 ft

DATE: 3/27/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-29-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-74

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 45 ft /NQ 2-CORE-CME-55 LOCATION: 35.361023°N, -94280739°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	60
85			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					98	98
90								100	100
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
100									
105									
110									
115									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 3-27-23

DEPTH TO WATER IN BORING: 13 ft

DATE: 3/27/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-29-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-75

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 46 ft /NQ Core-CME-55 LOCATION: 35.361425°N, -94.281011°E

SURF. EL: 392.1

DEPTH, FT	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	- No. 200 %	% Recovery	% RQD
	Firm reddish brown silty clay(CL) w/rootlets and decayed organics	7				
	Soft reddish brown silty clay (CL)	6	96			
5	- with silt pockets and partings below 6 ft	5				
	Stiff brown and gray clay (CH), blocky w/ferrous stains	1				
10						
15						
20	Very loose to loose reddish tan silty fine sand (SM)	4				
	- loose below 22 ft - water at 22.5 ft					
25		9				
	Medium dense tan fine to medium sand (SP)	18				
30						
35		16				
		17				

COHESION, TON/SQ FT: 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4

PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT: 10, 20, 30, 40, 50, 60, 70

DRAFT

COMPLETION DEPTH: 51.0 ft
DATE: 3-14-23

DEPTH TO WATER IN BORING: 22.5 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-75

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 46 ft /NQ Core-CME-55 LOCATION: 35.361425°N, -94.281011°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
				50/58"					
45			Moderately hard dark gray shale, slightly weathered w/occasional very thin gray fine-grained sandstone partings and ferrous stains, horizontal bedding	25/0"				95	82
50								97	85
55			- with some clayey shale partings and seams and fractures from 55 to 80 ft					100	78
60						q_u= 1040 psi, TUW= 158 pcf		88	58
65								92	20
70								98	30
75			- coal seams and layers from 77 to 79 ft - with pyrite inclusions at 77.6 to 77.9 ft					100	25

DRAFT

COMPLETION DEPTH: 51.0 ft
DATE: 3-14-23

DEPTH TO WATER IN BORING: 22.5 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 5-12-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-75

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 46 ft /NQ Core-CME-55 LOCATION: 35.361425°N, -94.281011°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard light gray fine-grained sandstone w/interbedded very close, very thin shale partings, horizontal bedding			q_u= 2650 psi, TUW= 163 pcf		98	98
85									
								98	98
90									
								100	98
95									
			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by CL. NOTE 3: Logged by DJM.						
100									
105									
110									
115									

DRAFT

COMPLETION DEPTH: 51.0 ft
DATE: 3-14-23

DEPTH TO WATER IN BORING: 22.5 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-77

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft/ NQ 2 Core-CME-55 LOCATION: 35.362140°N, -94.281022°E

SURF. EL: 400.2

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft dark brown clayey silt (ML)	6					
				6					
5			Soft dark brown silty clay (CL)	6					
10			Firm dark brown clayey silt (ML)						
15			Loose tan and reddish tan fine sandy silt (ML)	8					
20			Medium dense tan silty fine sand (SM)	22					
25			- very loose, water at 23 ft	3					
30			Medium dense tan fine to medium sand (SP)	11					
35				10					
40				26					
			- with some fine to coarse	15					

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 3-17-23

DEPTH TO WATER IN BORING: 23 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-77

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft/ NQ 2 Core-CME-55 LOCATION: 35.362140°N, -94.281022°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			gravel below 44 ft						
50			Moderately hard dark gray shale, horizontal bedding	50/4"				85	85
55								100	80
60								100	100
65								93	90
70			- close shale partings at 68.5, 68.7, 71.8, 72.5 and 72.6 ft - with occasional gray fine-grained sandstone partings below 70 ft					100	78
75								100	63
80								100	100
85			- coal seam at 85 ft and 94 ft					95	95

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 3-17-23

DEPTH TO WATER IN BORING: 23 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-77

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft/ NQ 2 Core-CME-55 LOCATION: 35.362140°N, -94.281022°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with some pyrite inclusions below 92 ft					78	75
95			Hard gray fine-grained sandstone w/some dark gray shale partings, horizontal bedding					100	100
100			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM.						
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 3-17-23

DEPTH TO WATER IN BORING: 23 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-78

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 55 ft /NQ 2 Core-CME-55 LOCATION: 35.362417°N, -94.280755°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 400.7	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft dark brown clayey silt (CL-ML)	5					
5			Firm to stiff dark brown silty clay (CL) w/silt pockets	10					
			Firm to stiff dark brown clay (CH)	6					
10			Loose reddish brown fine sandy silt, slightly clayey (ML)						
15			Loose reddish brown silty fine sand (SM)	7					
20				35					
25			- medium dense from 19 to 22 ft	9					
30			Medium dense tan fine to medium sand (SP)	10					
35				10					
40			- with some fine to coarse gravel below 39 ft	25					
			Medium dense tan fine to coarse sand w/fine to coarse gravel (SP)	14					

DRAFT

COMPLETION DEPTH: 105.0 ft
DATE: 3-19-23

DEPTH TO WATER IN BORING: 21 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-78

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 55 ft /NQ 2 Core-CME-55 LOCATION: 35.362417°N, -94.280755°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
50				25					
			Low hardness dark gray shale, slightly weathered						
55				50/1"					
			- with some clayey shale seams below 55.5 ft						
			Moderately hard dark gray shale, horizontal bedding					80	50
60								96	96
65								100	87
70								100	98
75								96	87
80								96	77
85								96	96

DRAFT

COMPLETION DEPTH: 105.0 ft
DATE: 3-19-23

DEPTH TO WATER IN BORING: 21 ft

DATE: 3/14/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-78

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA 25 ft /Wash 55 ft /NQ 2 Core-CME-55 LOCATION: 35.362417°N, -94.280755°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	67
			Low hardness black coal						
95			Hard dark gray shale w/some clayey shale seams, horizontal bedding					100	80
			Moderately dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	100
100									
105			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM.						
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 105.0 ft
DATE: 3-19-23

DEPTH TO WATER IN BORING: 21 ft

DATE: 3/14/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 398.9	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt (ML)						
			Firm brown silty clay (CL)	7					
5			- firm to stiff at 4 to 6 ft	10					
			- soft below 6 ft	6					
10				6					
15									
20			Medium dense tan silty fine sand (SM)	16					
25			Loose reddish brown fine sandy silt (ML)	8					
30			Medium dense tan fine to medium sand, slightly silt (SM-SP)	25					
35				28					
40				28					
				19					

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding					75	67
50								100	100
55								92	92
60								100	100
65								95	95
70								100	100
75								95	95
80								100	100
85			- with very close fine-grained sandstone partings below 85 ft					97	97

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- coal layer at 91.6 to 93 ft - close coal seams at 93 to 94 ft					100	53
95								100	100
100			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM/JKB.						
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

SURF. EL: 400.0

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt (ML)	5					
			Firm brown silty clay (CL)	7					
5			- stiff below 3.5 ft						
			Firm brown clayey silt, sandy (CL-ML)	7					
10									
			Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)	10					
15									
			- with fewer fine sandy silt seams and layers below 18 ft - medium dense at 18 to 23 ft	15					
20									
			- loose at 23 to 28 ft	9					
25									
				37					
30									
			- loose below 33 ft	9					
35									
			Medium dense tan fine to medium sand, slightly silty (SM-SP)	14					
40									
			- dense below 43 ft	31					

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding	50/4"					
50								92	87
55								98	98
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 399.5	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt, sandy (ML)	5					
			Firm brown silty clay (CL)						
5				9					
			- firm to stiff below 6 ft	10					
			Soft reddish brown clayey silt (CML-ML)	5					
10									
15			Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)						
20				10					
			- loose at 23 to 38 ft - with fewer fine sandy silt seams and layers below 23 ft						
25				8					
30				5					
35				7					
			- dense below 38 ft						
40				31					
				35					

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray shale, horizontal bedding	50/3"					
50								85	73
55								100	100
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Levee Hydraulic Conductivity Package

Project: I-49	**Job No:** 63136	**Design Criteria Document:**
Client: ARDOT	**Discipline:** Geotechnical	**Calculation No:0**

Name or Description of Calculation: Levee Seepage Hydraulic Conductivity Parameters

Note: Unique QF 06 to be created for each revision of a calculation.

Calc. Rev. No.	Description of Change (i.e., Original Issue or description of changes since last revision)	Confirmation required with other deliverables (Y/N)	List Deliverables for which confirmation is required (NA if none) Add additional rows as necessary	Confirmation Verified by Originator of Calc for each deliverable listed (Y/N)
0	original			

Calculation Objective:
To obtain appropriate hydraulic conductivity values from lab test and desktop study of available literature/data for the subsurface soils at Arkansas River to be used in seepage analyses by SEEP/W.

Calculation Methodology/List of Assumptions:
1. Annotate various available references
2. Choose suitable values for hydraulic conductivity of soils

The literatures and tables included in this package are copied from KC levee job.

References/Inputs:

1. Typical Values of Permeability, k

Soil Type	k (cm/s)
Clean gravel	1 to 100
Clean sands, clean sands and gravel mixtures	$1x10^{-3}$ to 1
Fine Sands; silts; mixtures of sand, silt, and clay; silty sand; clayey sand; sandy clay	$1x10^{-7}$ to $1x10^{-3}$

Sandy Silt

EM 1110-2-3506: Table 5-2

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2. **Typical Values of Permeability, k (after Lambe and Whitman, 1969)**

Soil	k (cm/s)			
	Lower Limit	Upper Limit	Average	
Compacted caliche	5.0E-09	1.0E-07	5.3E-08	
Silty sand	7.0E-09	3.0E-08	1.9E-08	Sandy Silt
Sandy clay	2.5E-10	2.8E-04	1.4E-04	
Beach sand	8.0E-02	2.0E-01	1.4E-01	
Compacted Boston blue clay	3.5E-09	3.2E-08	1.8E-08	
Vicksburg buckshot clay	3.0E-10	1.2E-09	7.5E-10	
Ottawa sand	6.0E-10	7.0E-10	6.5E-10	
Sand-Franklin Falls	9.0E-04	1.2E-03	1.1E-03	
Sand-Scituate	4.0E-03	9.5E-03	6.8E-03	
Sand-Plum Island	1.8E-02	2.8E-02	2.3E-02	
Sand-Fort Peck	1.8E-03	2.8E-03	2.3E-03	
Silt-Boston	1.0E-08	2.0E-06	1.0E-06	
Loess	4.0E-09	5.2E-09	4.6E-09	
Lean clay	2.0E-09	2.8E-08	1.5E-08	Silty Clay
Sand-Union Falls	4.3E-02	1.0E-01	7.2E-02	
Silt-North Carolina	5.7E-07	8.0E-05	4.0E-05	
Sand from dike	1.4E-04	1.7E-03	9.2E-04	
Sodium-Boston blue clay	1.7E-10	1.0E-07	5.0E-08	
Calcium kaolinite	2.1E-06	1.2E-05	7.1E-06	
Sodium montmorillonite	1.8E-08	1.8E-08	1.8E-08	
Sand (dam filter)	1.6E-03	1.0E-01	5.1E-02	

Day, Robert W., *Foundation Engineering Handbook*, McGraw-Hill, New York, 2006.

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3. Typical Values of Permeability, k

Soil	k (cm/s)		
	Lower Limit	Upper Limit	Average
Clean gravel	1.0E+00		1.0E+00
Gravel, clean coarse sand	1.0E-01	1.0E+00	5.5E-01
Graded sand, fine sand	1.0E-03	1.0E-01	5.1E-02
Silty sand, silt	1.0E-05	1.0E-03	5.1E-04
Dense silt, clayey silt	1.0E-07	1.0E-05	5.1E-06
Clay, silty clay		1.0E-07	1.0E-07

Spangler, Merlin G. and R.L. Handy, *Soil Engineering*, Fourth Edition, Harper & Row Publishers, New York, 1982.

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4. Typical Values of Permeability, k

Soil	k (cm/s)		
	Lower Limit	Upper Limit	Average
River deposits			
Rhone at Genissiat		4.00E-01	
Small streams, eastern Alps	2.00E-02	1.60E-01	9.00E-02
Missouri	2.00E-02	2.00E-01	1.10E-01
Mississippi	2.00E-02	1.20E-01	7.00E-02
Glacial deposits			
Outwash plains	5.00E-02	2.00E+00	1.03E+00
Esker, Westfiels, Mass.	1.00E-02	1.30E-01	7.00E-02
Delta, Chicopee, Mass.	1.00E-04	1.50E-02	7.55E-03
Till		1.00E-04	
Wind deposits			
Dune sand	1.00E-01	3.00E-01	2.00E-01
Loess			1.00E-03
Loess loam			1.00E-04
Lacustrine and marine offshore deposits			
Very fine uniform sand	1.00E-04	6.40E-03	3.25E-03
Bull's liver, Sixth Ave. N.Y.	1.00E-04	5.00E-03	2.55E-03
Bull's liver, Brooklyn	1.00E-05	1.00E-04	5.50E-05
Clay		1.00E-07	

Lambe, T. William, and Whitman, Robert V., *Soil Mechanics, SI version*, Wiley, New York, 1969.

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5. **Typical Values of Permeability, k**

Soil	k (cm/s)		
	Lower Limit	Upper Limit	Average
Clean gravel	1.0E+00	1.0E+01	5.5E+00
Clean sand, sand and gravel mixtures	1.0E-03	1.0E+00	5.0E-01
Fine sands, silts	1.0E-05	1.0E-03	5.1E-04
Sand-silt-clay mixtures, glacial tills	1.0E-07	1.0E-04	5.0E-05
Homogeneous clays		1.0E-07	

Silty Clay

McCarthy, David F., *Essentials of Soil Mechanics and Foundations: Basic Geotechnics*, Fifth Edition, Prentice Hall, 1998.

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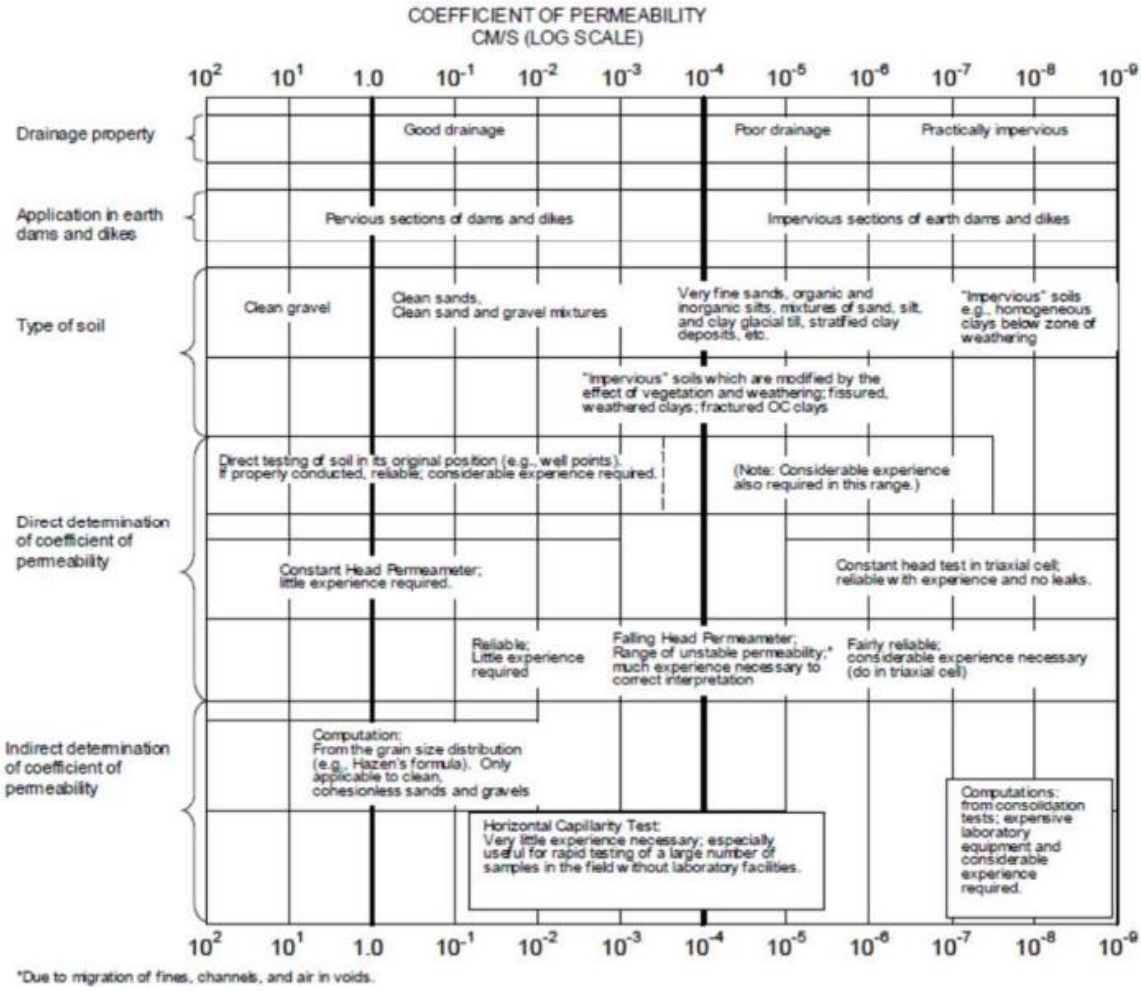

Figure 90. Range of hydraulic conductivity values based on soil type.

FHWA Circular 5 Figure 90

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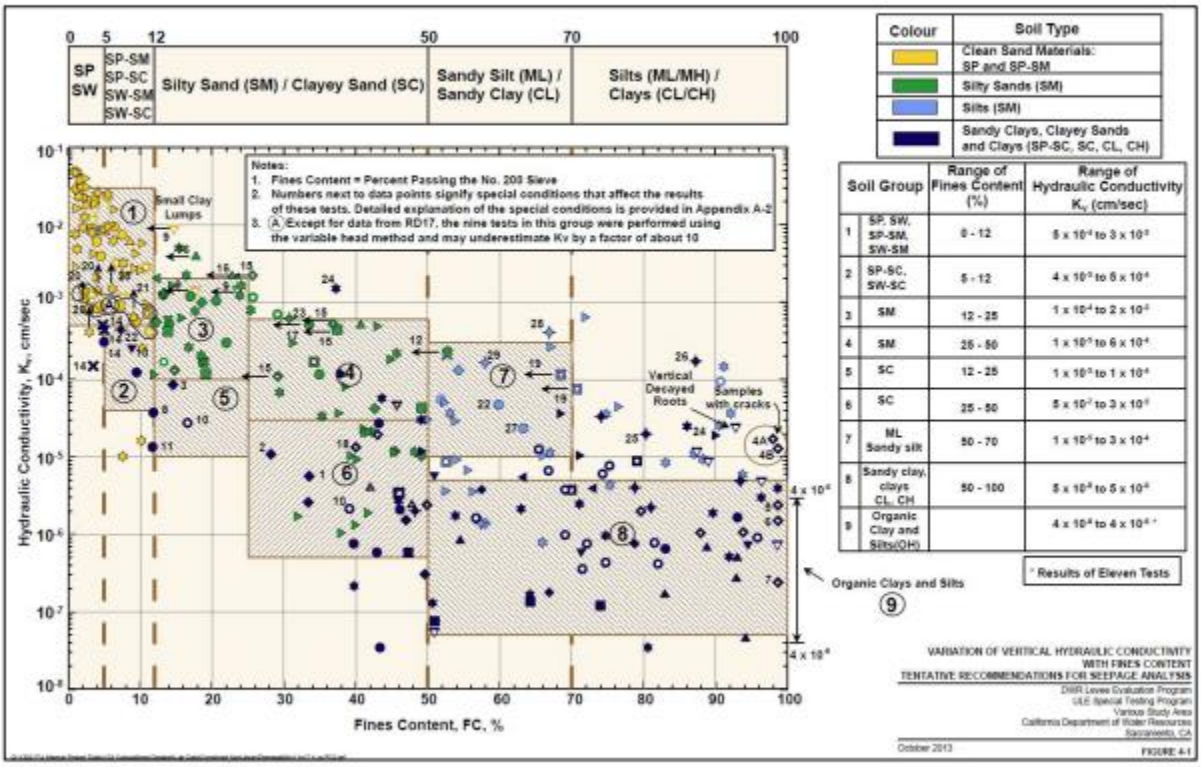

Figure 2-1. Variations of Vertical Hydraulic Conductivity Values with Fines Content (Tentative Ranges) Developed by CA DWR (URS 2015).

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Colour	Soil Type
	Clean Sand Materials: SP and SP-SM
	Silty Sands (SM)
	Silts (SM)
	Sandy Clays, Clayey Sands and Clays (SP-SC, SC, CL, CH)

Soil Group		Range of Fines Content (%)	Range of Hydraulic Conductivity K_v (cm/sec)
1	SP, SW, SP-SM, SW-SM	0 - 12	5×10^{-4} to 3×10^{-2}
2	SP-SC, SW-SC	5 - 12	4×10^{-5} to 5×10^{-4}
3	SM	12 - 25	1×10^{-4} to 2×10^{-3}
4	SM	25 - 50	1×10^{-5} to 6×10^{-4}
5	SC	12 - 25	1×10^{-5} to 1×10^{-4}
6	SC	25 - 50	5×10^{-7} to 3×10^{-5}
7	ML Sandy silt	50 - 70	1×10^{-5} to 3×10^{-4}
8	Sandy clay, clays CL, CH	50 - 100	5×10^{-8} to 5×10^{-6}
9	Organic Clay and Silts(OH)		4×10^{-8} to 4×10^{-6} *

* Results of Eleven Tests

Organic Clays and Silts

9

VARIATION OF VERTICAL HYDRAULIC CONDUCTIVITY
WITH FINES CONTENT
TENTATIVE RECOMMENDATIONS FOR SEEPAGE ANALYSIS

DWR Levee Evaluation Program
ULE Special Testing Program
Various Study Area
California Department of Water Resources
Sacramento, CA

October 2013

FIGURE 4-1

Permeability test results

Borings	Depth	Soil type	K (cm/s)	K (ft/s)
FE-10	2.5'-3.0'	Silty clay with silt pockets	4.9E-07	1.6E-08
FE-11	21.5'-22.0'	Clay	7.0E-08	2.3E-09
FP-14	3.0'-3.5'	Silty clay	4.1E-08	1.3E-09

Silty clay with silt pockets reflects the best soil type for levee foundation blanket material. Considering irregular silt pockets leading higher permeability, let's say permeability of silty clay (blanket material) = 5E-08 ft/s

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Attachments: (List each attachment following the subject calculation)
None

Conclusions:

Based on the above preliminary assessment and available lab test data, the following values can be reasonably used in the seepage analyses using SEEP/W.

Material	K_x (cm/s), Lower Bound	K_x (ft/s), Lower Bound	K_x (cm/s), Upper Bound	K_x (ft/s), Upper Bound	K_x (ft/s), To Use
Embankment - (CL) - Levee	1.00E-07	3.28E-09	1.00E-06	3.28E-08	3.8E-08
Pervious Fill (Filter-Sand)	Considered same as sand				0.0008
Silty Clay (CL) – Foundation Blanket	1.5E-08	4.9E-10	5.00E-06	1.6E-07	8E-08
Sandy Silt	4.9E-07 (lower bound permeability assumed to be near to average silty clay permeability)	1.6E-08	1E-05	3.28E-05	1E-07
Sand	See below page for calculation				0.0008
Shale					1E-12

Document Check:	Name	Signature	Date
Originator:	**Pradip Adhikari**	**PA**	**06/09/2023**
Checker:	Kevin Kuhl	KK	06/09/2023
Backchecker:	Pradip Adhikari	PA	06/12/2023
Updater:	Pradip Adhikari	PA	06/12/2023
Verifier:	Kevin Kuhl	KK	06/12/2023

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Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	4/24/2023
Project:	040748 Hwy 22 to I-40	Tested by:	LLC
Location:	FE-10	Checked by:	
Sample:	3 2.5-3.0		

Sample Description: Brown fine ~~sandy silt with some clayey silt pockets~~ Silty clay

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.271	2.886	in.	WW	270.36	600.16
2	2.275	2.886	in.	DW	242.85	513.21
3	2.277	2.886	in.	TW	110.30	111.01
Average	2.274	2.886	in.	Water Content	20.75%	21.62%

Sample Weight =	489.39	g
Sample Cross Area =	6.54	sq.in.
Sample Volume =	14.88	cu.in.
Wet Unit Weight =	125.31	lbs/cu.ft.
Dry Unit Weight =	103.77	lbs/cu.ft.

Test Conditions:

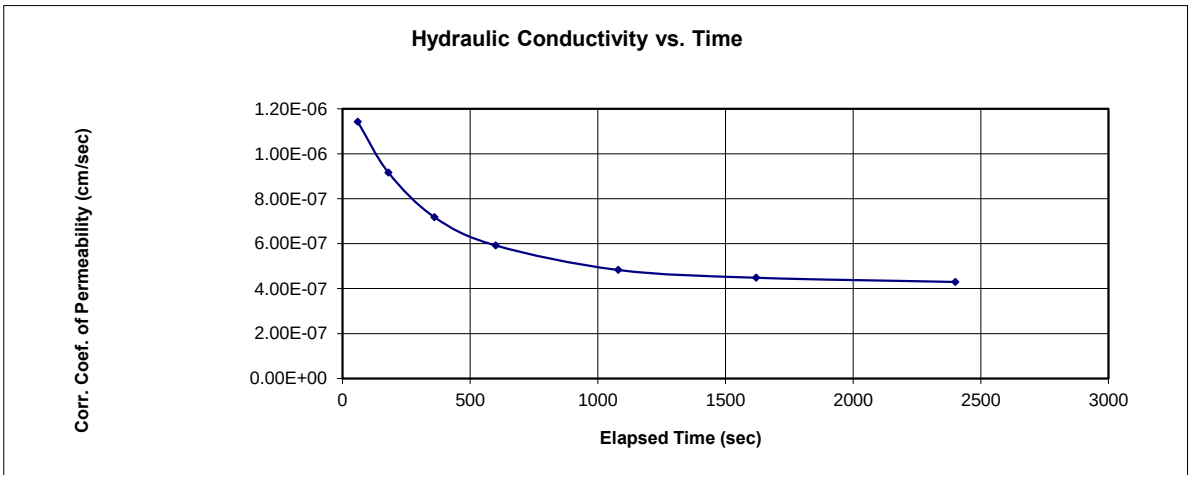
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 1.10 cm Pipette = 19.0 cm Test Cell # 1

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(°C)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
8	50	21	19.0	initial			
8	51	21	15.7	60	3.30	1.17E-06	1.14E-06
8	53	21	12.1	180	6.90	9.39E-07	9.16E-07
8	56	21	9.5	360	9.50	7.36E-07	7.18E-07
9	0	21	7.5	600	11.50	6.07E-07	5.92E-07
9	8	21	5.2	1080	13.80	4.95E-07	4.83E-07
9	17	21	3.6	1620	15.40	4.59E-07	4.48E-07
9	30	21	2.5	2400	16.50	4.40E-07	4.30E-07
						Mean:	**4.9E-07**



Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	4/1/2023
Project:	040748 Hwy 22 to I-40	Tested by:	LLC
Location:	Crawford County, AR	Checked by:	
Sample:	FE-11, 21.5'-22'		

Sample Description: Brown silty clay with fine sand

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.543	2.869	in.	WW	210.37	601.36
2	2.543	2.869	in.	DW	195.83	521.64
3	2.543	2.869	in.	TW	112.20	109.86
Average	2.543	2.869	in.	Water Content	17.39%	19.36%

Sample Weight =	526.21	g
Sample Cross Area =	6.46	sq.in.
Sample Volume =	16.44	cu.in.
Wet Unit Weight =	121.94	lbs/cu.ft.
Dry Unit Weight =	103.88	lbs/cu.ft.

Test Conditions:

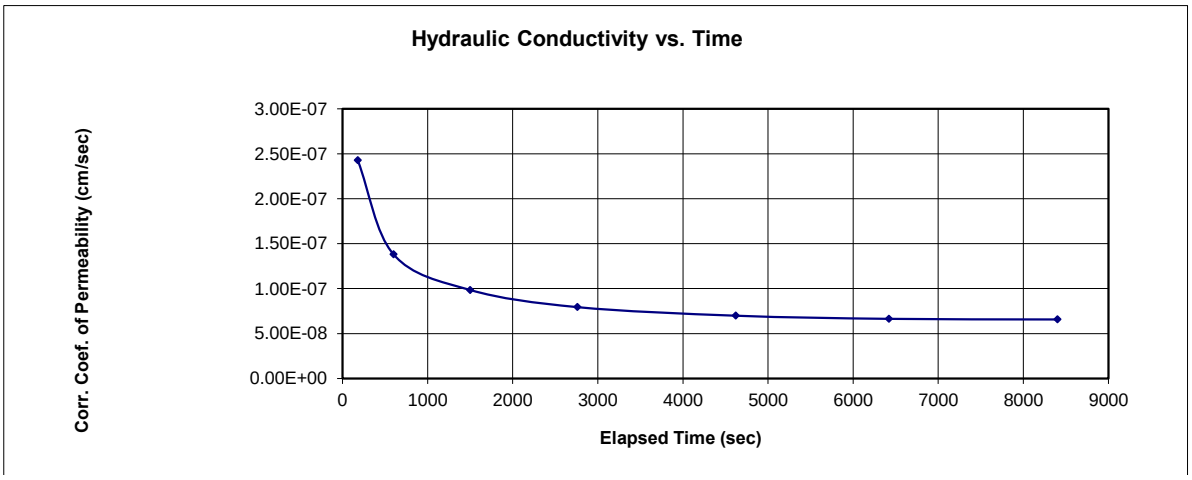
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 1.00 cm Pipette = 19.4 cm Test Cell # 2

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(^oC)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
6	10	22	19.4	initial			
6	13	21	17.4	180	2.00	2.49E-07	2.43E-07
6	20	21	15.8	600	3.60	1.41E-07	1.38E-07
6	35	21	13.5	1500	5.90	1.01E-07	9.85E-08
6	56	21	11.4	2760	8.00	8.14E-08	7.94E-08
7	27	21	9.0	4620	10.40	7.16E-08	6.99E-08
7	57	21	7.2	6420	12.20	6.80E-08	6.64E-08
8	30	21	5.6	8400	13.80	6.73E-08	6.57E-08
						Mean:	**7.0E-08**



Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	4/25/2023
Project:	040748 Hwy 22 to I-40	Tested by:	LLC
Location:	FP-14	Checked by:	
Sample:	4 3-3.5		

Sample Description: Brown silty clay

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.254	2.832	in.	WW	340.12	563.26
2	2.251	2.832	in.	DW	293.80	468.34
3	2.255	2.832	in.	TW	110.05	110.05
Average	2.253	2.832	in.	Water Content	25.21%	26.49%

Sample Weight =	450.29	g
Sample Cross Area =	6.30	sq.in.
Sample Volume =	14.19	cu.in.
Wet Unit Weight =	120.86	lbs/cu.ft.
Dry Unit Weight =	96.52	lbs/cu.ft.

Test Conditions:

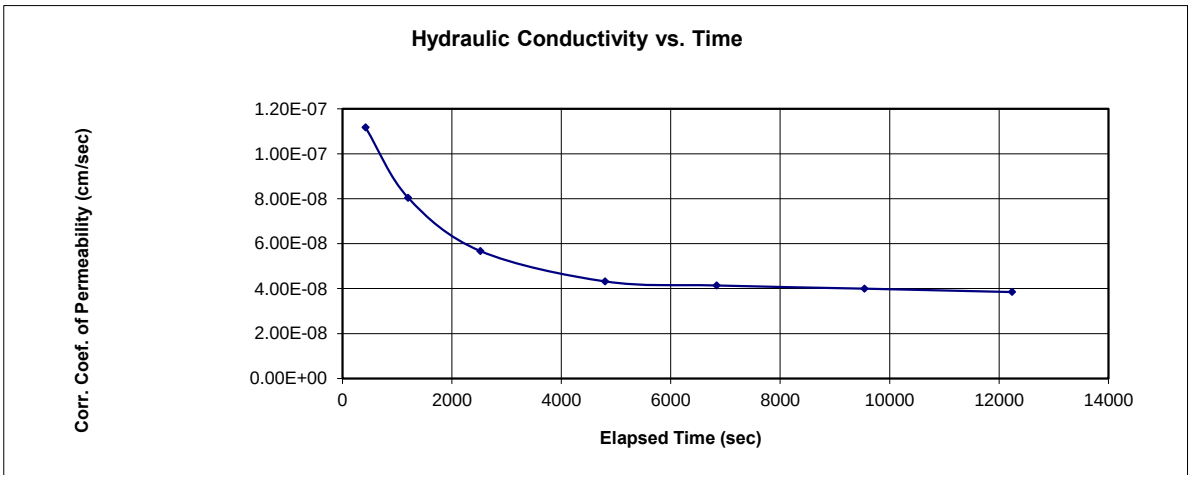
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 1.00 cm Pipette = 19.1 cm Test Cell # 2

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(^oC)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
7	10	21	19.1	initial			
7	17	21	16.8	420	2.30	1.14E-07	1.12E-07
7	30	21	14.7	1200	4.40	8.24E-08	8.04E-08
7	52	21	13.0	2520	6.10	5.81E-08	5.67E-08
8	30	21	11.0	4800	8.10	4.43E-08	4.32E-08
9	4	21	9.1	6840	10.00	4.24E-08	4.14E-08
9	49	21	7.2	9540	11.90	4.10E-08	4.00E-08
10	34	21	5.9	12240	13.20	3.94E-08	3.85E-08
						Mean:	**4.1E-08**



Sandy Silt

Permeability with Flexible Wall Permeameter

(ASTM D-5084)

Job No.:	21-071	Tested Date:	5/6/2022
Project:	040748 I-49	Tested by:	LLC
Location:	Crawford County, Arkansas	Checked by:	JDF
Sample:	R-13 S-6 & S-7 Comp, 9-15 ft		
Sample Description:	Reddish tan fine sandy SILT		

Sample Data

	Height	Diameter			Initial Moisture	Final Moisture
1	2.820	2.860	in.	WW	243.68	684.29
2	2.820	2.858	in.	DW	219.96	573.90
3	2.820	2.858	in.	TW	110.85	110.77
Average	2.820	2.859	in.	Water Content	21.74%	23.84%

Sample Weight =	570.95	g
Sample Cross Area =	6.42	sq.in.
Sample Volume =	18.10	cu.in.
Wet Unit Weight =	120.17	lbs/cu.ft.
Dry Unit Weight =	98.71	lbs/cu.ft.

Test Conditions:

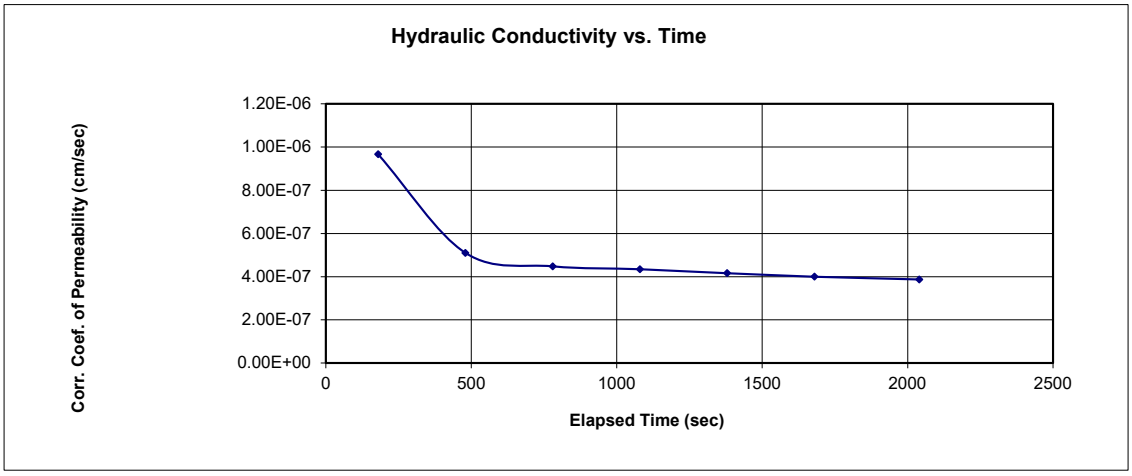
Cell Pressure, psi =	100
Back Pressure, psi =	95
Eff. Conf. Pressure, psi =	5.0

Initial Permometer Readings:

Annulus = 0.50 cm Pipette = 26.5 cm Test Cell # 2

Note: Minimum four data point is required

Time		Temp	Pipette Reading	Elapsed Time	Reading Difference	Coefficient of Permeability	Corrected Coefficient of Permeability
hour	minute	(°C)	(cm)	(sec)	(cm)	(cm/sec)	(cm/sec)
8	3	21	26.5	initial			
8	6	21	17.8	180	8.70	9.90E-07	9.66E-07
8	11	21	15.2	480	11.30	5.22E-07	5.10E-07
8	16	21	12.1	780	14.40	4.59E-07	4.48E-07
8	21	21	9.4	1080	17.10	4.45E-07	4.34E-07
8	26	21	7.6	1380	18.90	4.26E-07	4.16E-07
8	31	21	6.3	1680	20.20	4.10E-07	4.00E-07
8	37	21	5.1	2040	21.40	3.97E-07	3.87E-07
						Mean:	**4.1E-07**



2.10.2 The differences between hydraulic conductivity measured field or in the laboratory remain a challenge to design of levee seepage measures. In general, in the Mississippi Valley, there is a long history of field testing correlated with in-situ confirmation of pore pressures and related flow volumes, such as from relief wells (DIVR 1110-1-400 Tables 1 and 4). In other parts of the country where there is less field-confirmed performance data, hydraulic conductivity is often estimated using laboratory tests. In general, the hydraulic conductivities from the laboratory tests are typically lower than field-estimated values, often by one or two orders of magnitude.

2.10.3 The difference between laboratory and field hydraulic conductivity values is more evident in semi-pervious to impervious blankets. The overall hydraulic conductivity of blanket layers is affected by natural and man-made defects (such as presence of fissures, root holes, former sand boil holes, and other perforations). According to USACE studies by Mansur and Kaufman (TM 3-424 1956), the back-calculations of field behavior showed that clay blankets had effective hydraulic conductivity much higher than predicted by laboratory tests (up to 1000 times) and were commonly just as pervious as silt blankets. Also, a significantly lower hydraulic conductivity of a blanket layer without considerations of these natural and man-made defects may artificially show a higher exit gradient in seepage analyses, as exit gradient depends on ratio of the horizontal to vertical hydraulic conductivity of the blanket ($k_{h(aquifer)}/k_{v(blanket)}$), among other factors.

DRAFT

those in the California Central Valley. The ranges may not be very reliable for estimating values for peats or organic materials.

2.10.5 Empirical equations such as Kozeny-Carman and Hazen equations have been modified recently to account for both relative density and grain size distributions of soils. These equations should be used to develop site-specific hydraulic conductivity values for levee projects. The site-specific values should be compared with values shown in Figure 2-1 to evaluate the reasonableness of selected values. A modified version of Kozeny-Carman equation, as proposed by Chapuis and Aubertin (2003a) requires a complete gradation curve (both sieve and hydrometer), as it accounts for the surface area of the particles. In absence of hydrometer tests, the estimated hydraulic conductivity value (k) could be higher, as the tail portion of the grain size distribution impacts the estimate. Chapuis (2004) provides a relationship for hydraulic conductivity values based on void ratio, e and d_{10} (mm) values, which is also considered a modification of original Hazen (1911) equation. This predictive equation (Chapuis 2004) was compared with published results for sand and gravel specimens, with an effective diameter d_{10} between 0.13 and 1.98 mm and a void ratio e between 0.4 and 1.5. The Chapuis (2004) equation is shown in Equation 2-1.

For sand

$$k(cm/s) = 2.4622\,[d_{10}^2 e^3/(1+e)]^{0.7825} \qquad (2\text{-}1)$$

Sand

K= 0.025 cm/sec
= 0.0008 ft/sec

where:

k = hydraulic conductivity (cm/s)
d_{10}= effective diameter (mm)
e = void ratio

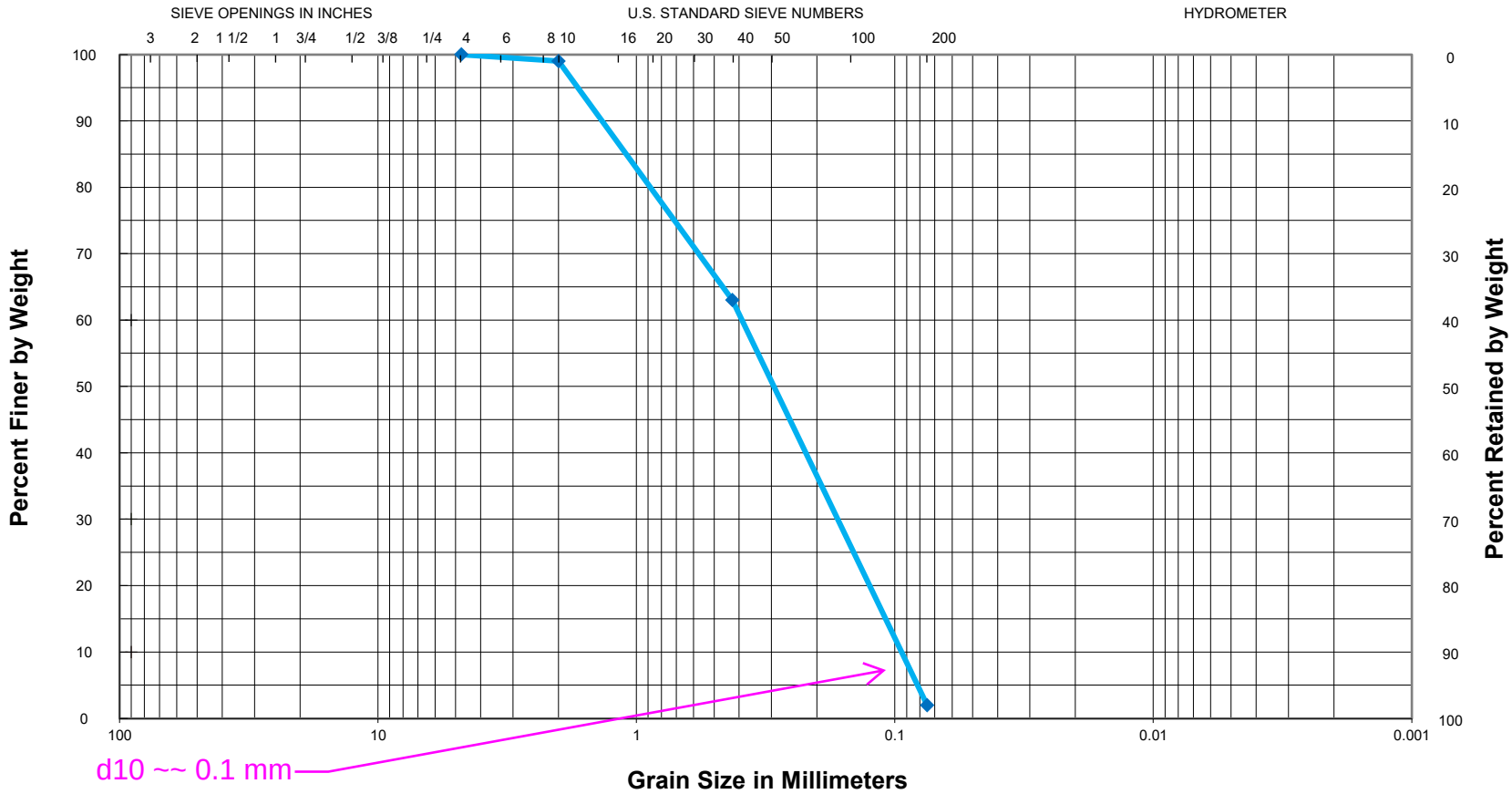
typical value of void ratio for sand 0.8

Sand

21-071

GRAIN SIZE CURVE

Grubbs, Hoskyn, Barton & Wyatt, INC.
CONSULTING ENGINEERS



GRAVEL		SAND			SILT OR CLAY
COARSE	FINE	COARSE	MEDIUM	FINE	

Sample: Boring R-14, 24-25 ft
Description: Reddish tan fine to medium SAND

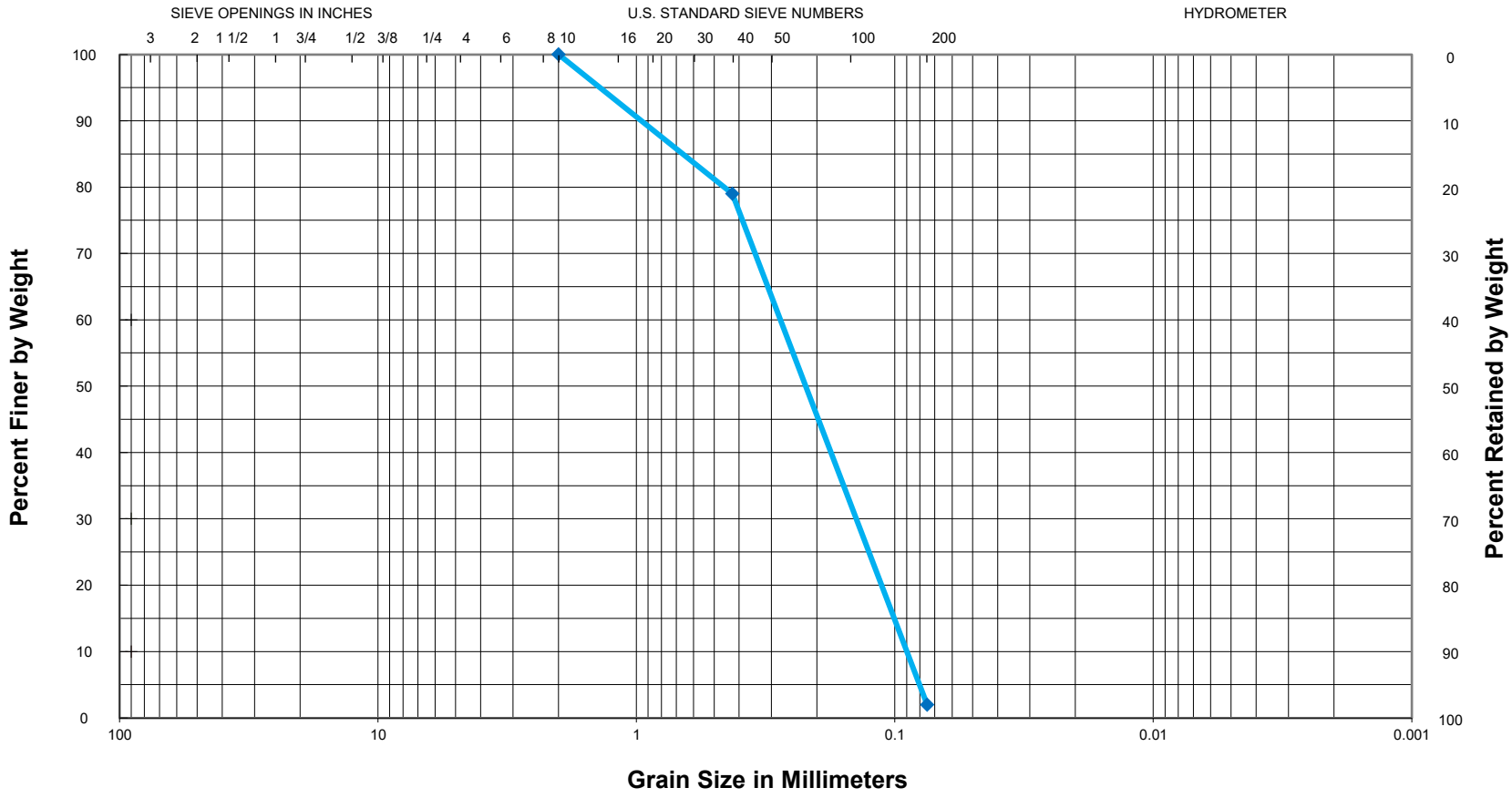
USCS Classification = SP
AASHTO Classification = A-3

Sand

21-071

GRAIN SIZE CURVE

Grubbs, Hoskyn, Barton & Wyatt, INC.
CONSULTING ENGINEERS



GRAVEL		SAND			SILT OR CLAY
COARSE	FINE	COARSE	MEDIUM	FINE	

Sample: Boring R-14, 44-45 ft
Description: Tan fine SAND

USCS Classification = SP
AASHTO Classification = A-3

SLOPE/W and SEEP/W Results Package

Project: I-49	Job No: 63136	Design Criteria Document:
Client: ARDOT	Discipline: Geotechnical	Calculation No: 0

Name or Description of Calculation: Steady State Seepage, Rapid Drawdown Slope Stability and Hydraulic gradient Calculation

Note: Unique QF 06 to be created for each revision of a calculation.

Calc. Rev. No.	Description of Change (i.e., Original Issue or description of changes since last revision)	Confirmation required with other deliverables (Y/N)	List Deliverables for which confirmation is required (NA if none) Add additional rows as necessary	Confirmation Verified by Originator of Calc for each deliverable listed (Y/N)
0	Original Issue			

Calculation Objective:

To perform steady state levee seepage, calculate exit gradient at levee landside toe, at drilled shaft location and at Gun Club Roadside ditch. Factor of Safety determination based average exit gradient in blanket material.

To perform rapid drawdown and steady state global slope stability on levee slopes.

Calculation Methodology/List of Assumptions:

1. Maximum allowed exit gradient at landside toe = 0.5 (EM 1110-2-1913)
2. Maximum allowed exit gradient at >150 feet from landside toe = 0.8
3. Maximum allowed exit gradient in the bottom of ditch beyond distance 150 ft from levee toe is 0.8. (EM 1110-2-1913)
4. Required factor of safety (FS) at levee landside toe = 0.84/0.5 = 1.68
5. Required factor of safety (FS) at 150 feet from levee landside toe = 0.84/0.8 = 1.05
6. Exit gradient at levee landside toe, drilled shaft location and Gun Club roadside ditch at existing condition and at proposed drilled shaft penetration conditions are calculated.
7. Global slope stability in steady state and rapid drawdown conditions.
8. Boundary condition on river side as total head of 408.6 ft. Boundary condition on the landside slopes and beyond as seepage face with 0 cubic feet/sec discharge.
9. Total head 408.6 ft to the left vertical face and land side boundary condition with 400 ft head to the right-side vertical face of the levee cross section.

References/Inputs:

1. “Calculation package levee profile and stratigraphy” dated 06/09/2023
2. “Levee Seepage Hydraulic conductivity package” dated 06/09/2023
3. EM 1110-2-1913 April 2022 Draft
4. EM 1110-2-569 Design Guidance for Levee UnderSeepage, May 2005

Attachments: (List each attachment following the subject calculation)

1. SEEP/W Results – Steady State Seepage for Design Water Surface Elevation (DWSE) and Project Levee Grade (PLG)
2. Steady State Global slope stability – DWSE, PLG
3. Rapid Drawdown Global slope stability – DWSE, PLG,
4. Normal Water level Global slope stability

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Conclusions:

Steady State Seepage Condition with proposed drilled shaft

Factor of Safety				
Scenario	Global slope stability	Seepage at Levee toe	Seepage at Drilled Shaft	Seepage at Gun Club Road - Ditch
Steady State DWSE	1.8	4.2	4.2	1.5
Steady State PLG	1.5	3.3	2.8	1.3

Rapid drawdown Global Slope Stability with proposed drilled shaft penetration

Scenario	Global Slope Stability FS
Rapid Drawdown DWSE	2.3 (levee riverside)
Rapid Drawdown PLG	2.2 (levee riverside)
Normal Water Level	2.3 (levee riverside)

Steady State Seepage Condition existing levee

Factor of Safety		
Scenario	Global slope stability	Seepage at Levee toe
Steady State DWSE	1.8	4.6
Steady State - Project Levee Grade	1.5	3.3

Rapid Drawdown Global Slope Stability existing levee

Scenario	Global Slope Stability FS
Rapid Drawdown DWSE	2.3 (levee riverside)
Rapid Drawdown PLG	2.2 (levee riverside)
Normal Water Level	2.3 (levee riverside)

See Analysis below pages.

Document Check:	**Name**	**Signature**	**Date**
Originator:	**Pradip Adhikari**	**PA**	**06/09/2023**
Checker:	**Kevin Kuhl**	**KK**	**06/09/2023**
Backchecker:	Pradip Adhikari	PA	06/12/2023
Updater:	Pradip Adhikari	PA	06/12/2023
Verifier:	Kevin Kuhl	KK	06/12/2023

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Table 7-2. Minimum Factors of Safety – Levee Slope Stability.

Type of Slope and Loading	Applicable Stability Conditions and Required Factors of Safety (FS)		
	Case I End-of-Construction[a]	Case II Sudden Drawdown[b]	Case III Flood
New or Existing Levees			
Normal water levels	1.3	--	--
Design Water Surface Elevation	--	1.0 to 1.2	1.4[c]
Project Levee Grade	--	1.0	1.3[e]
Other Embankments and dikes[d]	1.3[f,g]	1.0 to 1.2[g]	1.4[d,g]

[a] Both Total stress (undrained analysis) and effective stress (drained analysis) are required for Case III. The minimum factors of safety are required for both conditions. The governing condition will control the design

[b] Sudden drawdown analyses: FS = 1.0 applies to drawdown from Project Levee Grade and drawdown from DWSE levels when the DWSE is unlikely to persist for long periods preceding drawdown. FS = 1.2 applies to DWSE levels, likely to persist for long periods prior to drawdown.

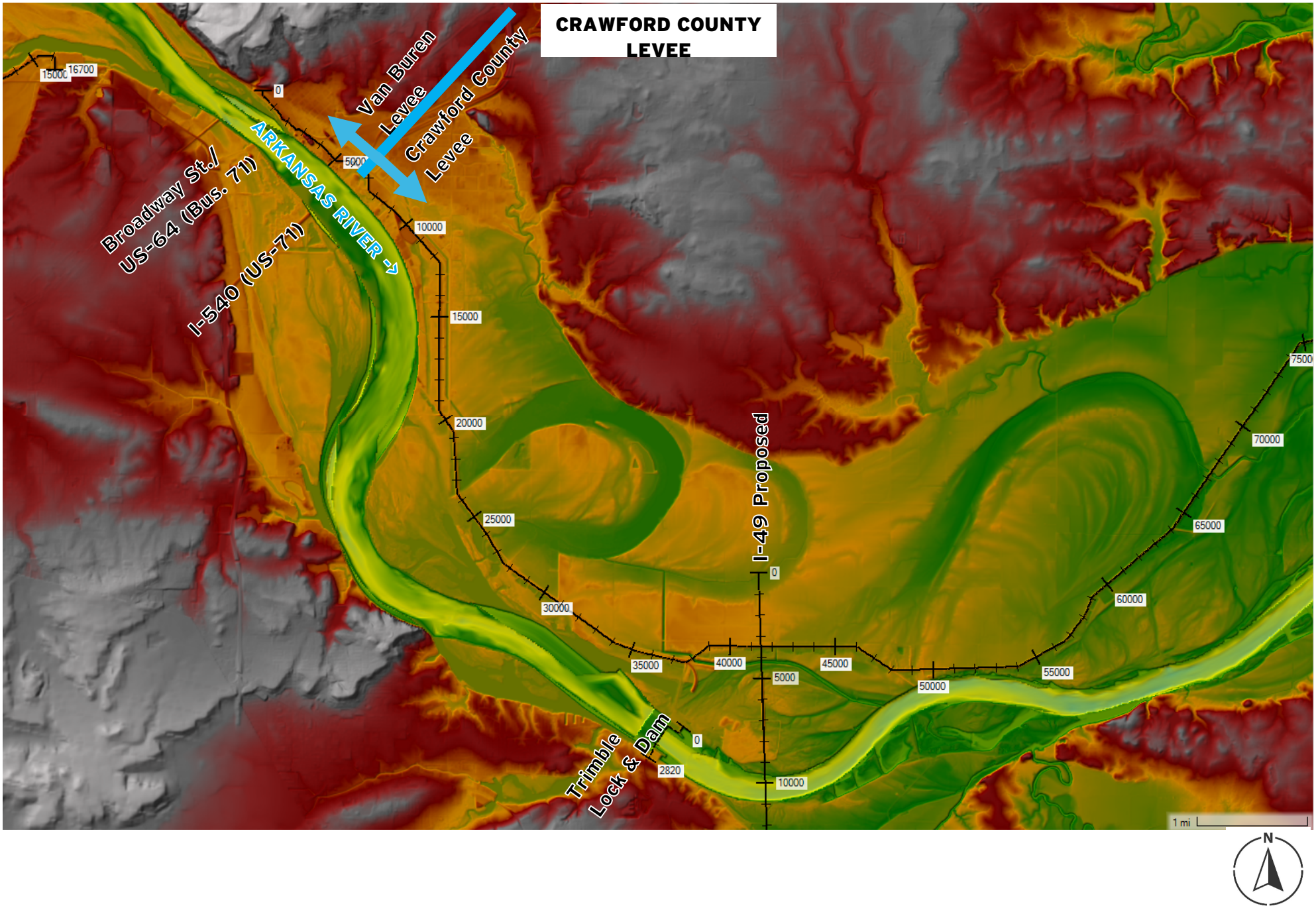
[c] For new levees founded on normally- to slightly over-consolidated fine-grained soils, undrained shear strengths represent existing conditions prior to construction. For existing levees, undrained shear strengths represent existing conditions at the time of analysis. Future consolidation and associated strength gain may be considered during risk analyses.

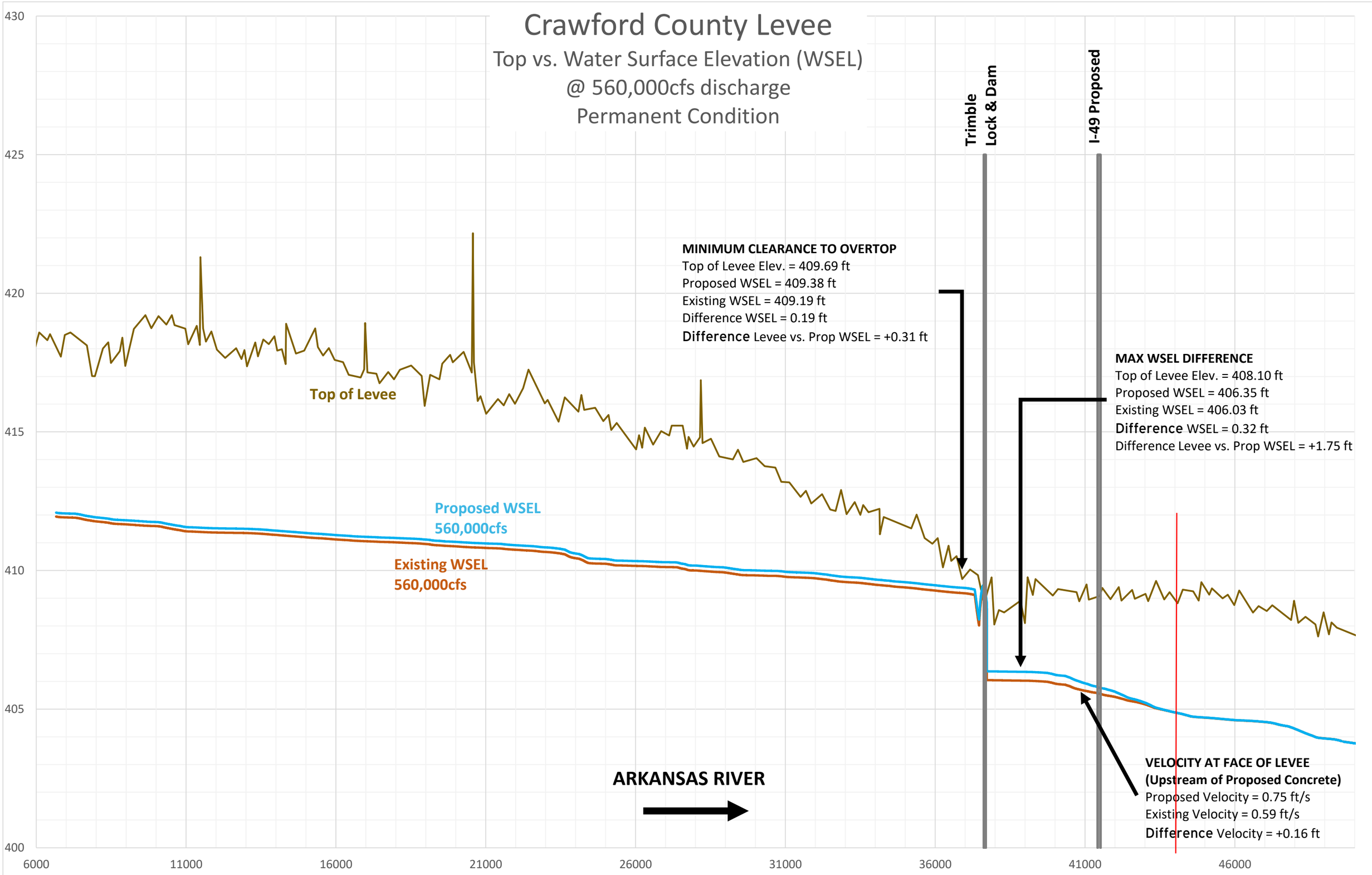
[d] Applies also to non-flood loading. For existing slopes where either sliding or large deformation has occurred previously and back analyses have been performed to establish design shear strengths, lower factors of safety may be considered. In such cases, probabilistic analyses may be useful in supporting a deviation requesting use of lower factors of safety for design.

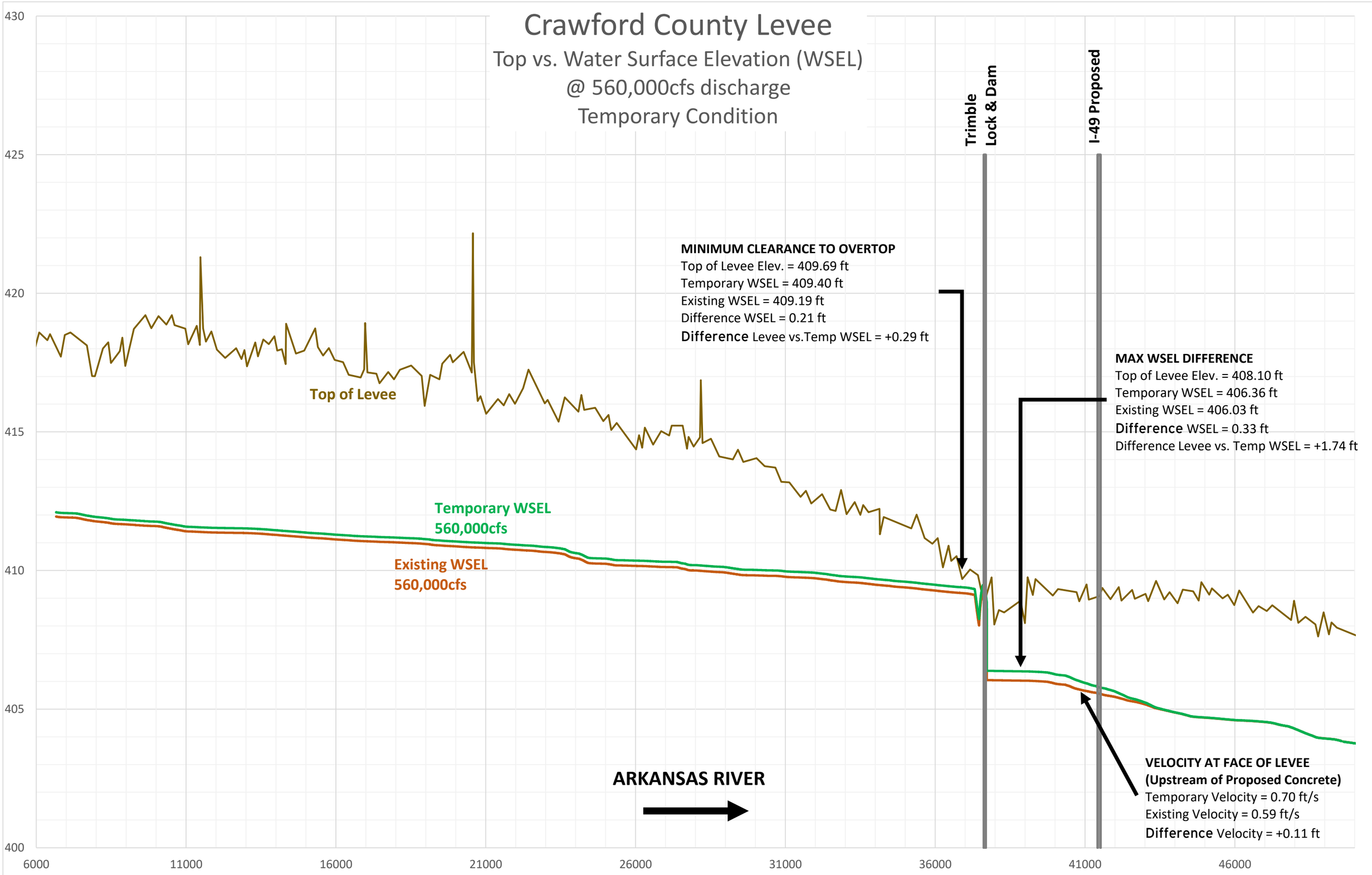
[e] Includes slopes that affect the stability of a levee, such as those which are part of cofferdams, retention dikes, stockpiles, navigation channels, breakwater, adjacent river banks, and excavation slopes.

[f] Temporary excavated slopes are sometimes designed for only short-term stability with the knowledge that long-term stability is not adequate. Special care is required in design of temporary slopes, which do not have adequate stability for the long-term (steady seepage) condition.

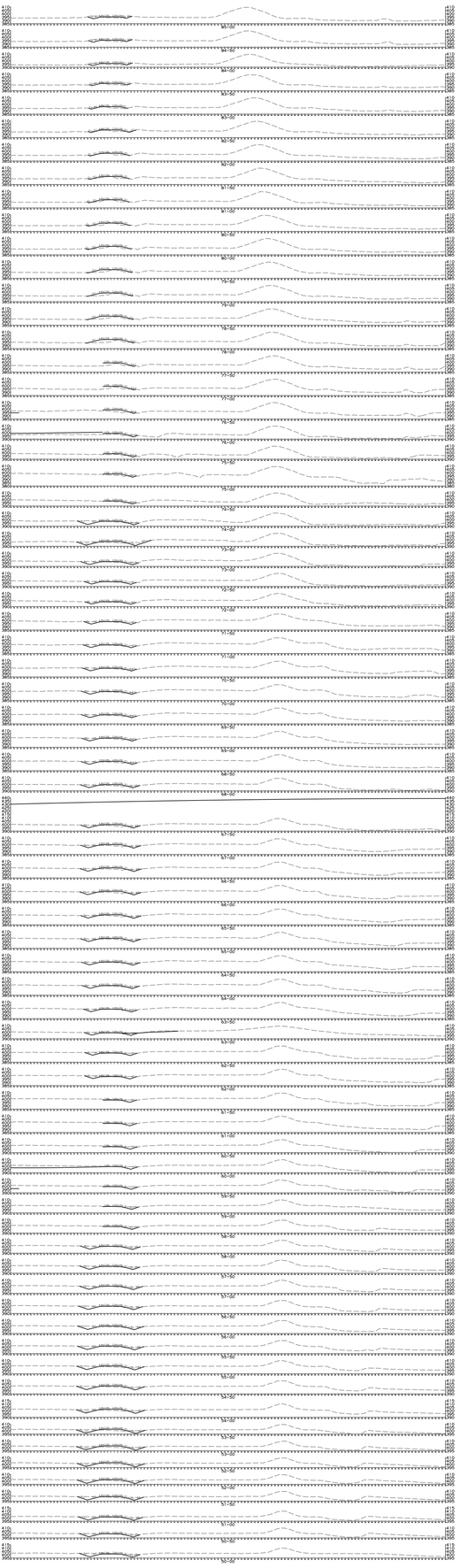
[g] Lower factors of safety may be appropriate when the consequences of failure in terms of safety, environmental damage, and economic losses are small. See Chapter 1 for information on deviations.

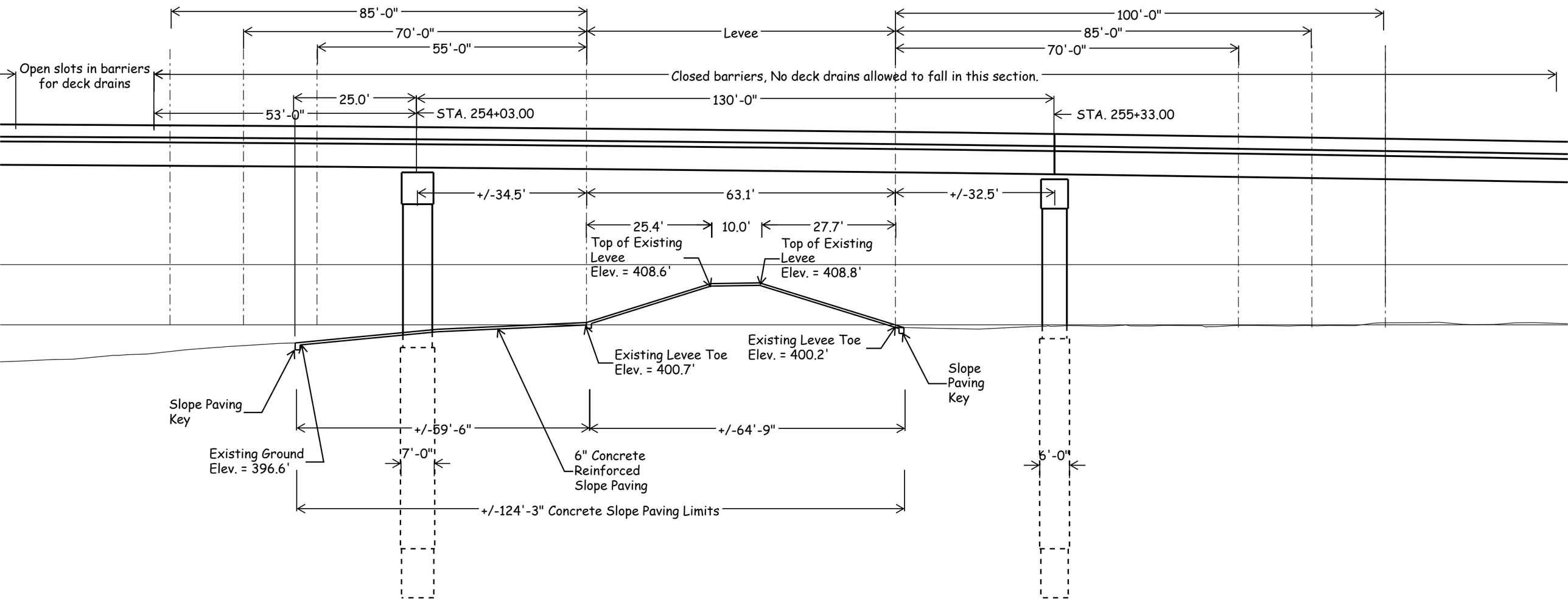

CRAWFORD COUNTY LEVEE
Van Buren Levee
Crawford County Levee
ARKANSAS RIVER
Broadway St./ US-64 (Bus. 71)
I-540 (US-71)
I-49 Proposed
Trimble Lock & Dam
15000
16700
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
50000
55000
60000
65000
70000
7500
0
5000
10000
0
2820
1 mi
N


Crawford County Levee
Top vs. Water Surface Elevation (WSEL)
@ 560,000cfs discharge
Permanent Condition
Trimble Lock & Dam
I-49 Proposed
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 409.69 ft
Proposed WSEL = 409.38 ft
Existing WSEL = 409.19 ft
Difference WSEL = 0.19 ft
Difference Levee vs. Prop WSEL = +0.31 ft
MAX WSEL DIFFERENCE
Top of Levee Elev. = 408.10 ft
Proposed WSEL = 406.35 ft
Existing WSEL = 406.03 ft
Difference WSEL = 0.32 ft
Difference Levee vs. Prop WSEL = +1.75 ft
Top of Levee
Proposed WSEL
560,000cfs
Existing WSEL
560,000cfs
ARKANSAS RIVER
VELOCITY AT FACE OF LEVEE
(Upstream of Proposed Concrete)
Proposed Velocity = 0.75 ft/s
Existing Velocity = 0.59 ft/s
Difference Velocity = +0.16 ft
430
425
420
415
410
405
400
6000
11000
16000
21000
26000
31000
36000
41000
46000


Crawford County Levee
Top vs. Water Surface Elevation (WSEL)
@ 560,000cfs discharge
Temporary Condition
430
425
420
415
410
405
400
6000
11000
16000
21000
26000
31000
36000
41000
46000
Trimble Lock & Dam
I-49 Proposed
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 409.69 ft
Temporary WSEL = 409.40 ft
Existing WSEL = 409.19 ft
Difference WSEL = 0.21 ft
Difference Levee vs.Temp WSEL = +0.29 ft
MAX WSEL DIFFERENCE
Top of Levee Elev. = 408.10 ft
Temporary WSEL = 406.36 ft
Existing WSEL = 406.03 ft
Difference WSEL = 0.33 ft
Difference Levee vs. Temp WSEL = +1.74 ft
Top of Levee
Temporary WSEL
560,000cfs
Existing WSEL
560,000cfs
ARKANSAS RIVER
VELOCITY AT FACE OF LEVEE
(Upstream of Proposed Concrete)
Temporary Velocity = 0.70 ft/s
Existing Velocity = 0.59 ft/s
Difference Velocity = +0.11 ft

I-49 centerline close to station 68+00

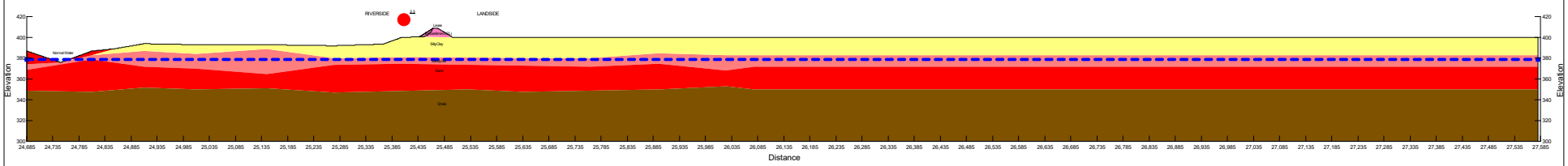




Cross section of Levee looking west

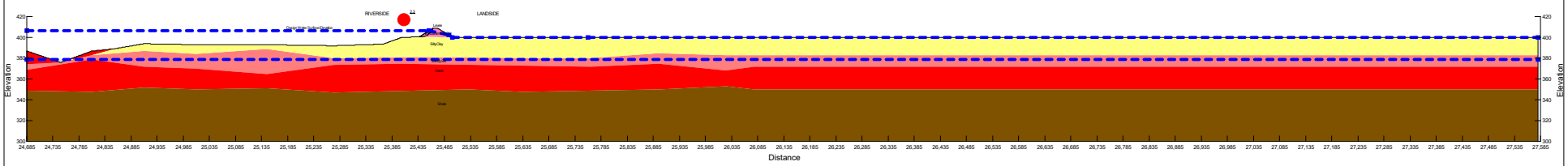
Existing Levee Analyses Results

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0	1
	Sand	Mohr-Coulomb	120	0	32	0	1
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0	1
	Shale	Mohr-Coulomb	160	0	40	0	1
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0	1



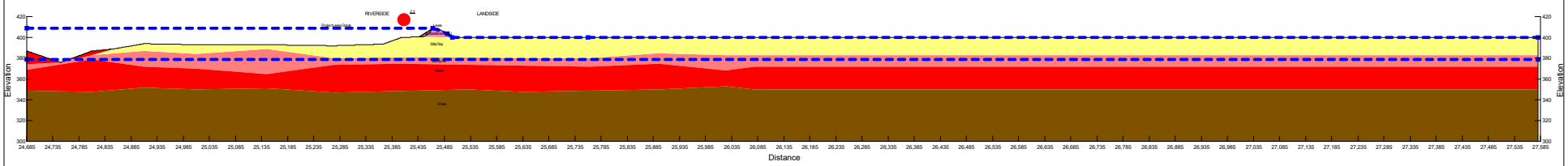
HNTB	Project: I-49	
	Analysis Description: Existing Levee Slope Stability - Normal Water Level	
	Designer/Author: PA	Station
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)	Cohesion R (psf)	Phi R (°)	Piezometric Surface	Piezometric Surface After Drawdown
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0	150	22	1	2
	Sand	Mohr-Coulomb	120	0	32	0	0	0	1	2
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0	850	18	1	2
	Shale	Mohr-Coulomb	160	0	40	0	2,000	30	1	2
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0	300	20	1	2



HNTB	Project: I-49	
	Analysis Description: Existing Levee Rapid Drawdown Slope Stability - DWSE	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)	Cohesion R (psf)	Phi R (°)	Piezometric Surface	Piezometric Surface After Drawdown
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0	150	22	1	2
	Sand	Mohr-Coulomb	120	0	32	0	0	0	1	2
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0	850	18	1	2
	Shale	Mohr-Coulomb	160	0	40	0	2,000	30	1	2
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0	300	20	1	2



HNTB	Project: I-49	
	Analysis Description: Existing Levee Rapid Drawdown Slope Stability - Project Levee Grade	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Hydraulic Material Model	Sat Kx (ft/sec)	Ky'/Kx' Ratio
	Embankment (CL) - RDD	Saturated Only	3.8e-08	0.25
	Sand	Saturated Only	0.0008	1
	Sandy Silt - RDD	Saturated Only	1e-07	0.25
	Shale	Saturated Only	1e-12	1
	Silty Clay - RDD	Saturated Only	8e-08	0.25

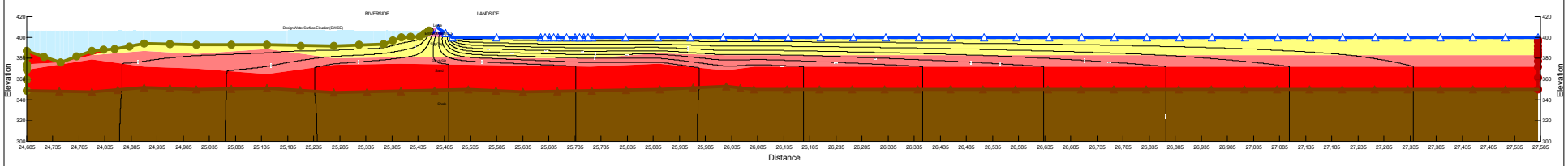
Max allowed exit gradient (iexit)
at levee landside toe = 0.5

Required FS
at levee landside toe = 0.84/0.5 = 1.68

exit gradient at levee toe (iexit)
= (403.5-400)/(400-380)
= 0.18

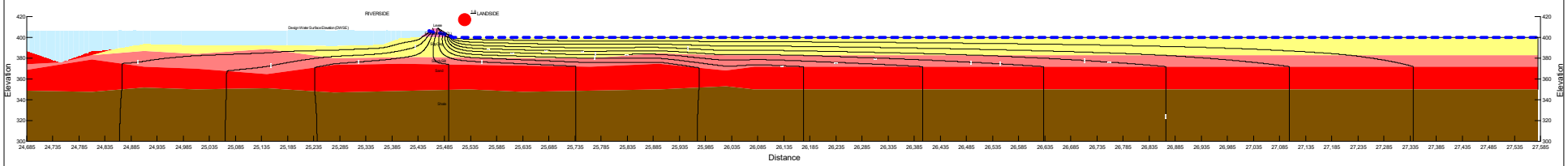
critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.18 = 4.6



HNTB	Project: I-49	
	Analysis Description: Existing Levee Steady State Seepage Analysis - DWSE	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0
	Sand	Mohr-Coulomb	120	0	32	0
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0
	Shale	Mohr-Coulomb	160	0	40	0
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0



HNTB	*Project* I-49	
	Analysis Description Existing Levee Steady State Slope Stability - DWSE	
	Designer/Author PA	*Station*
Project Number 63136	*Date* 06/09/2023	*File Name* Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Hydraulic Material Model	Sat Kx (ft/sec)	Ky'/Kx' Ratio
	Embankment (CL) - RDD	Saturated Only	3.8e-08	0.25
	Sand	Saturated Only	0.0008	1
	Sandy Silt - RDD	Saturated Only	1e-07	0.25
	Shale	Saturated Only	1e-12	1
	Silty Clay - RDD	Saturated Only	8e-08	0.25

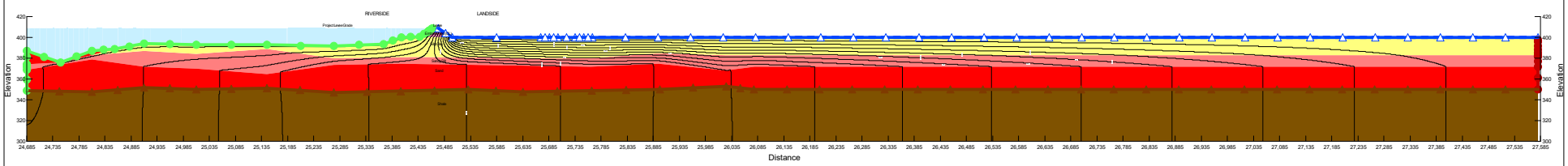
Max allowed exit gradient (iexit)
at levee landside toe = 0.5

Required FS
at levee landside toe = 0.84/0.5 = 1.68

exit gradient at levee toe (iexit)
= (405-400)/(400-380)
= 0.25

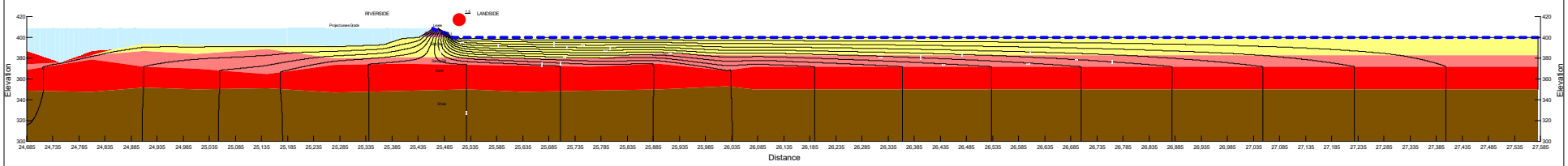
critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.25 = 3.3



HNTB	Project: I-49	
	Analysis Description: Existing Levee Steady State Seepage - Project Levee Grade	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

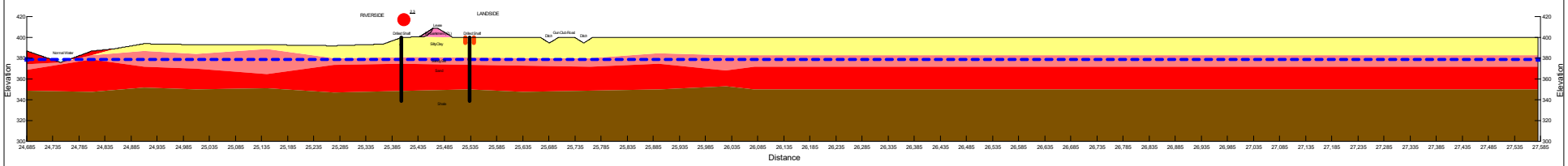
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0
	Sand	Mohr-Coulomb	120	0	32	0
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0
	Shale	Mohr-Coulomb	160	0	40	0
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0



HNTB	Project: I-49	
	Analysis Description: Existing Levee Steady State Slope Stability - Project Levee Grade	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

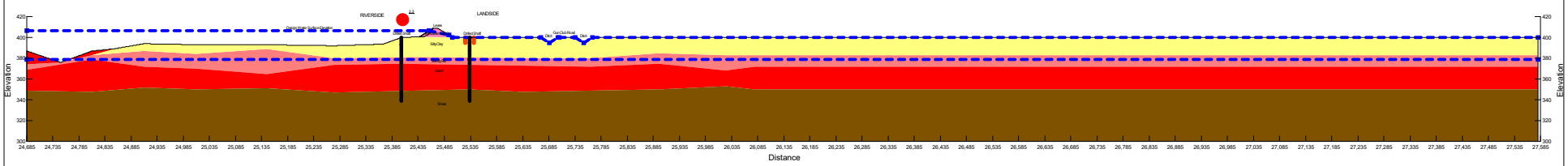
Proposed Levee Analyses with drilled shaft and ditch

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)	Piezometric Surface
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0	1
	Filter-sand	Mohr-Coulomb	120	0	30	0	1
	Sand	Mohr-Coulomb	120	0	32	0	1
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0	1
	Shale	Mohr-Coulomb	160	0	40	0	1
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0	1



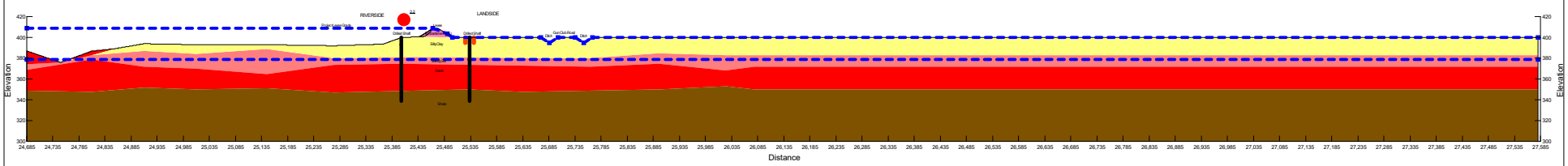
HNTB	Project: I-49	
	Analysis Description: Proposed Levee Slope Stability with Drilled Shaft Penetration - Normal Water Level	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)	Cohesion R (psf)	Phi R (°)	Piezometric Surface	Piezometric Surface After Drawdown
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0	150	22	1	2
	Filter-sand	Mohr-Coulomb	120	0	30	0	0	0	1	2
	Sand	Mohr-Coulomb	120	0	32	0	0	0	1	2
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0	850	18	1	2
	Shale	Mohr-Coulomb	160	0	40	0	2,000	30	1	2
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0	300	20	1	2



HNTB	Project: I-49	
	Analysis Description: Proposed Levee Rapid Drawdown Slope Stability with Drilled Shaft Penetration - DWSE	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)	Cohesion R (psf)	Phi R (°)	Piezometric Surface	Piezometric Surface After Drawdown
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0	150	22	1	2
	Filter-sand	Mohr-Coulomb	120	0	30	0	0	0	1	2
	Sand	Mohr-Coulomb	120	0	32	0	0	0	1	2
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0	850	18	1	2
	Shale	Mohr-Coulomb	160	0	40	0	2,000	30	1	2
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0	300	20	1	2



HNTB	Project: I-49	
	Analysis Description: Proposed Levee Rapid Drawdown Slope Stability with Drilled Shaft Penetration - Project Levee Grade	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Hydraulic Material Model	Sat Kx (ft/sec)	Ky'/Kx' Ratio
	Embankment (CL) - RDD	Saturated Only	3.8e-08	0.25
	Filter-sand	Saturated Only	0.0008	1
	Sand	Saturated Only	0.0008	1
	Sandy Silt - RDD	Saturated Only	1e-07	0.25
	Shale	Saturated Only	1e-12	1
	Silty Clay - RDD	Saturated Only	8e-08	0.25

Max allowed exit gradient (iexit)
at levee landside toe = 0.5

Required FS
at levee landside toe = 0.84/0.5 = 1.68

Max allowed exit gradient (iexit)
at >150 ft from levee landside toe = 0.8

Required FS
at ditch = 0.84/0.8 = 1.05

exit gradient at levee toe (iexit)
= (404-400)/(400-380)
= 0.2

critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.2 = 4.2

exit gradient at
bottom of sand filter (iexit)
= (403-400)/(395-380)
= 0.2

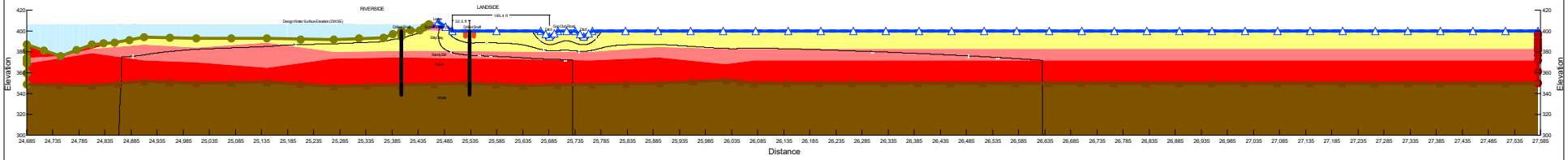
critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.2 = 4.2

exit gradient at ditch (iexit)
= (402.5-394.5)/(394.5-380)
= 0.55

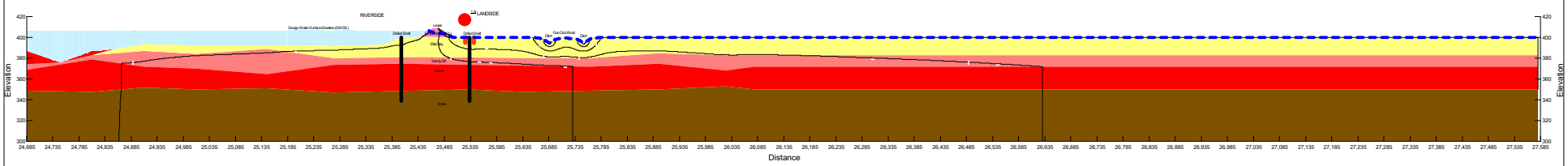
critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.55 = 1.5



HNTB	Project: I-49		
	Analysis Description: Proposed Levee Steady State Seepage Analysis with Drilled Shaft Penetration - DWSE		
	Designer/Author: PA	Station	
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz	

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0
	Filter-sand	Mohr-Coulomb	120	0	30	0
	Sand	Mohr-Coulomb	120	0	32	0
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0
	Shale	Mohr-Coulomb	160	0	40	0
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0



HNTB	*Project* I-49	
	Analysis Description Proposed Levee Steady State Slope Stability with Drilled Shaft Penetration- DWSE	
	Designer/Author PA	*Station*
Project Number 63136	*Date* 06/09/2023	*File Name* Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Hydraulic Material Model	Sat Kx (ft/sec)	Ky'/Kx' Ratio
	Embankment (CL) - RDD	Saturated Only	3.8e-08	0.25
	Filter-sand	Saturated Only	0.0008	1
	Sand	Saturated Only	0.0008	1
	Sandy Silt - RDD	Saturated Only	1e-07	0.25
	Shale	Saturated Only	1e-12	1
	Silty Clay - RDD	Saturated Only	8e-08	0.25

Max allowed exit gradient (iexit)
at levee landside toe = 0.5

Required FS
at levee landside toe = 0.84/0.5 = 1.68

Max allowed exit gradient (iexit)
at >150 ft from levee landside toe = 0.8

Required FS
at ditch = 0.84/0.8 = 1.05

exit gradient at levee toe (iexit)
= (405-400)/(400-380)
= 0.25

critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.25 = 3.3

exit gradient at
bottom of sand filter (iexit)
= (404.5-400)/(395-380)
= 0.3

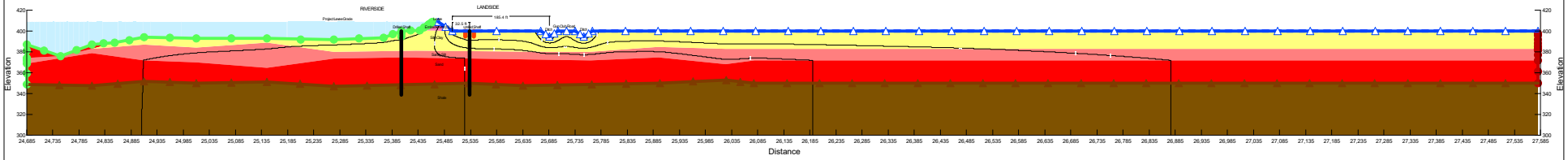
critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.3 = 2.8

exit gradient at ditch (iexit)
= (403.5-394.5)/(394.5-380)
= 0.62

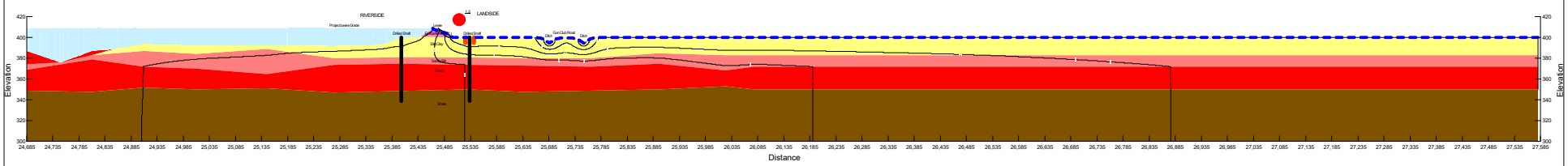
critical gradient (icrit)
= (115-62.4)/62.4
= 0.84

FS = icrit/iexit = 0.84/0.62 = 1.35



HNTB	*Project* I-49	
	Analysis Description Proposed Levee Steady State Seepage with Drilled Shaft Penetration- Project Levee Grade	
	Designer/Author PA	*Station*
Project Number 63136	*Date* 06/09/2023	*File Name* Levee UnderSeepage and Rapid Drawdown_20230609.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Phi-B (°)
	Embankment (CL) - RDD	Mohr-Coulomb	125	0	28	0
	Filter-sand	Mohr-Coulomb	120	0	30	0
	Sand	Mohr-Coulomb	120	0	32	0
	Sandy Silt - RDD	Mohr-Coulomb	110	0	30	0
	Shale	Mohr-Coulomb	160	0	40	0
	Silty Clay - RDD	Mohr-Coulomb	120	100	28	0



HNTB	Project: I-49	
	Analysis Description: Proposed Levee Steady State Slope Stability with Drilled Shaft - Project Levee Grade	
	Designer/Author: PA	Station:
Project Number: 63136	Date: 06/09/2023	File Name: Levee UnderSeepage and Rapid Drawdown_20230609.gsz

APPENDIX D
Bridge Abutment stability and Settlement Analysis

Project: I-49	Job No: 63136	Design Criteria Document:
Client: ArDOT	Discipline: Geotechnical	Calculation No: 2

Name or Description of Calculation: Bridge 1 end slopes

Note: Unique QF 06 to be created for each revision of a calculation.

Calc. Rev. No.	Description of Change (i.e., Original Issue or description of changes since last revision)	Confirmation required with other deliverables (Y/N)	List Deliverables for which confirmation is required (NA if none) Add additional rows as necessary	Confirmation Verified by Originator of Calc for each deliverable listed (Y/N)
0	Original			
1	Revision			

Calculation Objective:

Bridge 1 North and South approach end slopes stability.

Calculation Methodology/List of Assumptions:

1. Minimum factor of safety requirement for end slope is 1.5. (AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.)

FIGURE 4.4.8.2.2A Relationship Between Elastic Modulus and Uniaxial Compressive Strength fo Modified after Deere (1968)

or near a slope by limiting equilibrium methods of analysis which employ the Modified Bishop, simplified Janbu, Spenser or other generally accepted methods of slope stability analysis. Where soil and rock parameters and ground water levels are based on in-situ and/or laboratory tests, the minimum factor of safety shall be 1.3 (or 1.5 where abutments are supported above a slope). Otherwise, the minimum factor of safety shall be 1.5 (or 1.8 where abutments are supported above a retaining wall).

4.4.10 Dynamic/Seismic Design

Refer to Division I-A and Lam and Martin (1986a; 1986b) for guidance regarding the design of footings subjected to dynamic and seismic loads.

4.4.11 Structural Design

4.4.11.1 Loads and Reactions

4.4.11.1.1 Action of Loads and R

Footings shall be considered as u
downward forces, due to the superimp
by an upward pressure exerted by the
als and distributed over the area of th
mined by the eccentricity of the resulta
forces. Where piles are used under fo
reaction of the foundation shall be co
of concentrated loads applied at the pil
being assumed to carry the computed
footing load.

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2. **Designed end slope is not meeting the AASHTO stability requirement, therefore south approach end slope is changed to 3H to 1V from 2H to 1V along with 3 feet of undercut as shown in SLOPE/W result. No change required for north approach end slope.**
3. South approach end slope is stabilized with rock fill – class 7 material up to 3 feet below existing ground. Undercut extends 4 ft north and 71 ft south from toe of slope.
4. 100-year flood elevation i.e, 402.67 ft is used for the water table.
5. Reference borings for south approach end slope are FB-4, FB-5 and R-2, while for the north approach end slope is R-9.
6. Strength parameters are written in boring logs.

References/Inputs:

Boring logs
Strength parameters
AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets
Relevant Lab test results, boring R-2 for south approach and R-9 for north approach.
NAVFAC correlation for undrained shear strength and N value

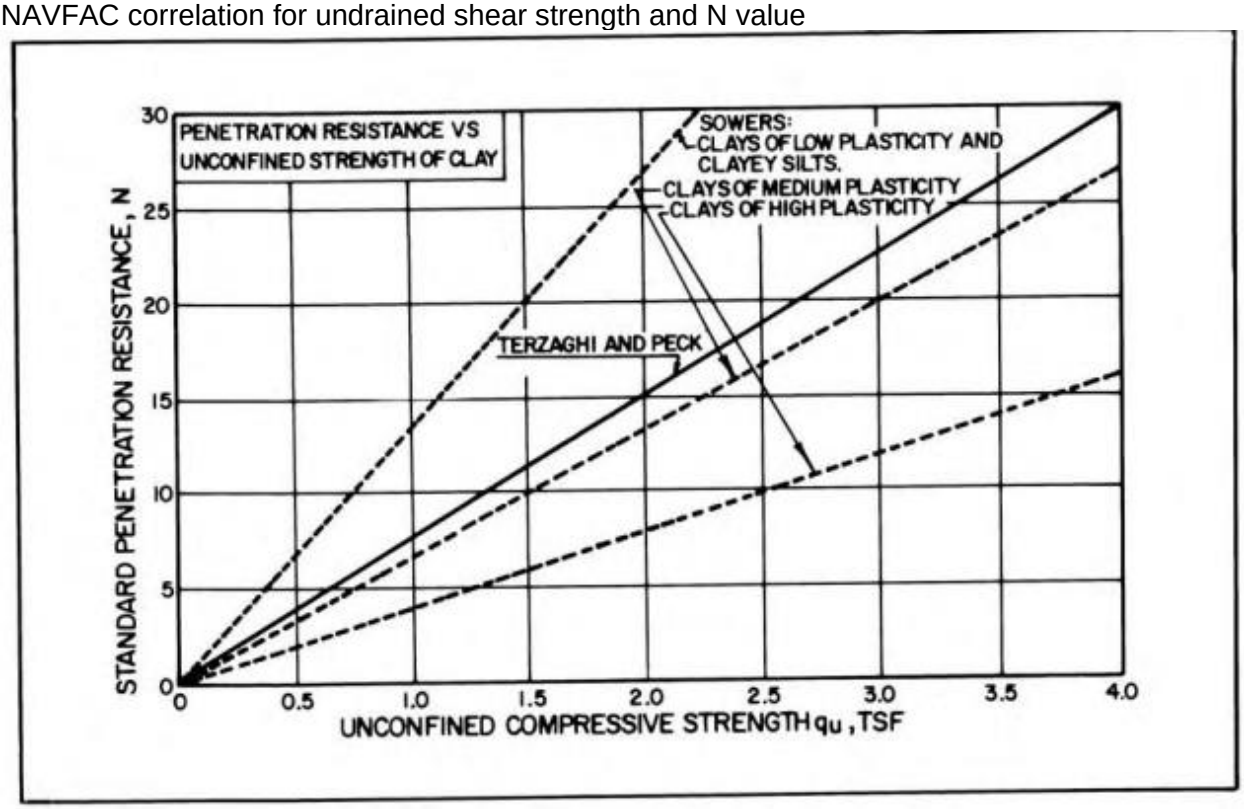

FIGURE 4
Correlations of Standard Penetration Resistance

Correlations with N values of cohesionless soils, after Bowles, 1997.

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Description	Relative Density, *Dr* (%)	Friction Angle, φ'(Deg.)	N Value
Very loose	Less than 15	25 - 28	< 4
Loose	15 - 60	29 - 32	4 - 10
Medium	60 - 75	33 - 35	10 - 30
Dense	75 - 90	36 - 40	30 - 50
Very dense	Over 90	41 - 45	Over 50

Correlations with N values of cohesionless soils, after Bowles, 1997.

Attachments: (List each attachment following the subject calculation)
Boring logs
AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets

Conclusions:

Results are in below table:

End slopes	South approach end slope		North approach end slope	
	Long term (Drained)	Short term (Undrained)	Long term (Drained)	Short term (Undrained)
2H:1V	-	-	3.3	3.8
3H:1V with 3 feet undercut	1.6	1.5	-	-

Document Check:	Name	Signature	Date
Originator:	Pradip Adhikari	PA	04/21/2023
Checker:	Michael DeStigter	MJLD	04/26/2023
Backchecker:	Pradip Adhikari	PA	06/05/2023
Updater:	Pradip Adhikari	PA	06/05/2023
Verifier:	Michael De Stigter	MJLD	06/07/2023

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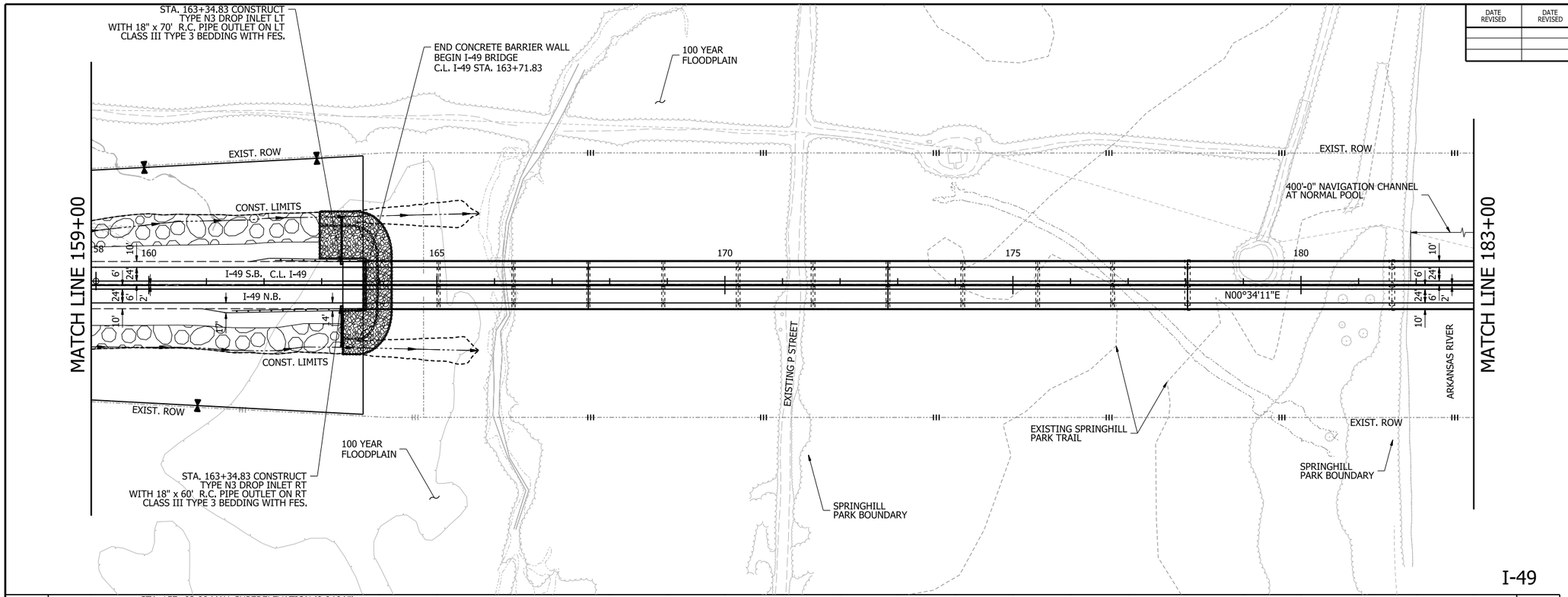
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	74	230
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

I-49

STA. 157+02.00 MAX. SUPERELEVATION (0.046 '/')
STA. 160+52.00 END SUPERELEVATION

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
159+00	164+77	LT.	5' CHAIN LINK	578
159+00	164+77	RT.	5' CHAIN LINK	578

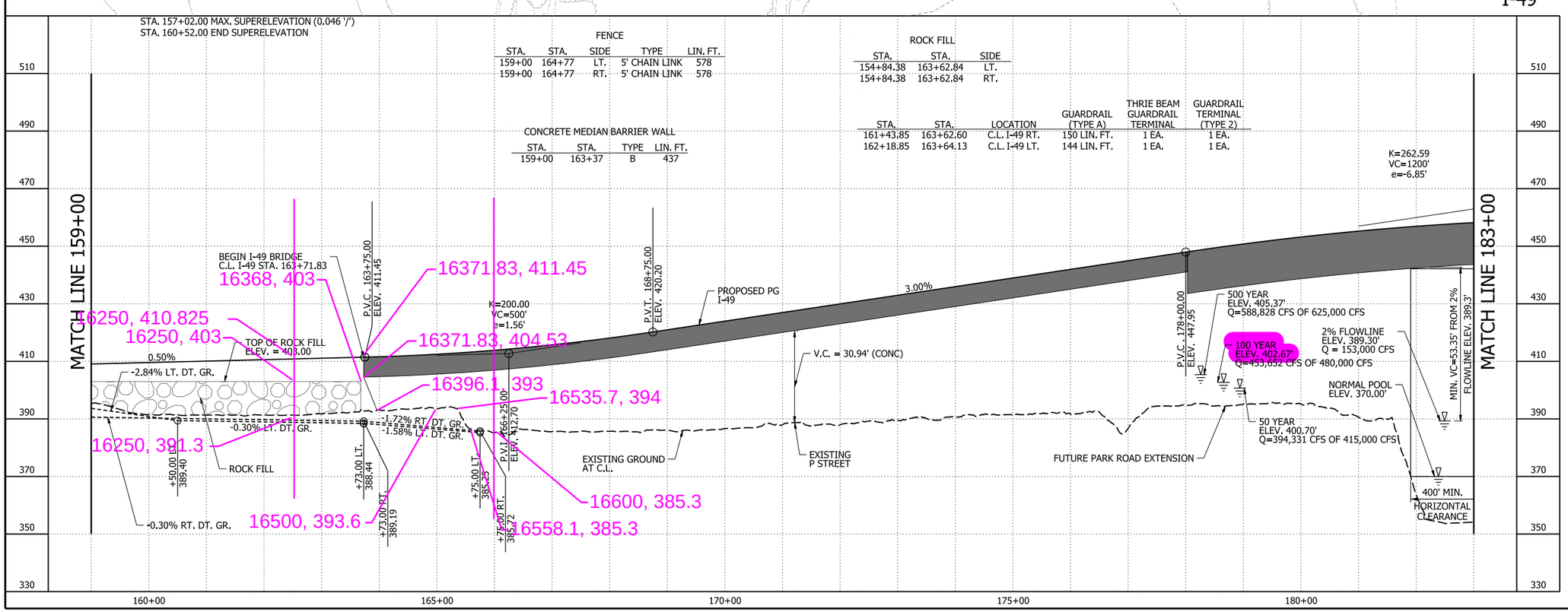
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
159+00	163+37	B	437

ROCK FILL

STA.	STA.	SIDE
154+84.38	163+62.84	LT.
154+84.38	163+62.84	RT.

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
161+43.85	163+62.60	C.L. I-49 RT.	150 LIN. FT.	1 EA.	1 EA.
162+18.85	163+64.13	C.L. I-49 LT.	144 LIN. FT.	1 EA.	1 EA.



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- BRIDGE
- PAVEMENT REMOVAL

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

I-49
PLAN AND PROFILE SHEETS

2/28/2023 10:01:03 AM
R040901_12_PP_004.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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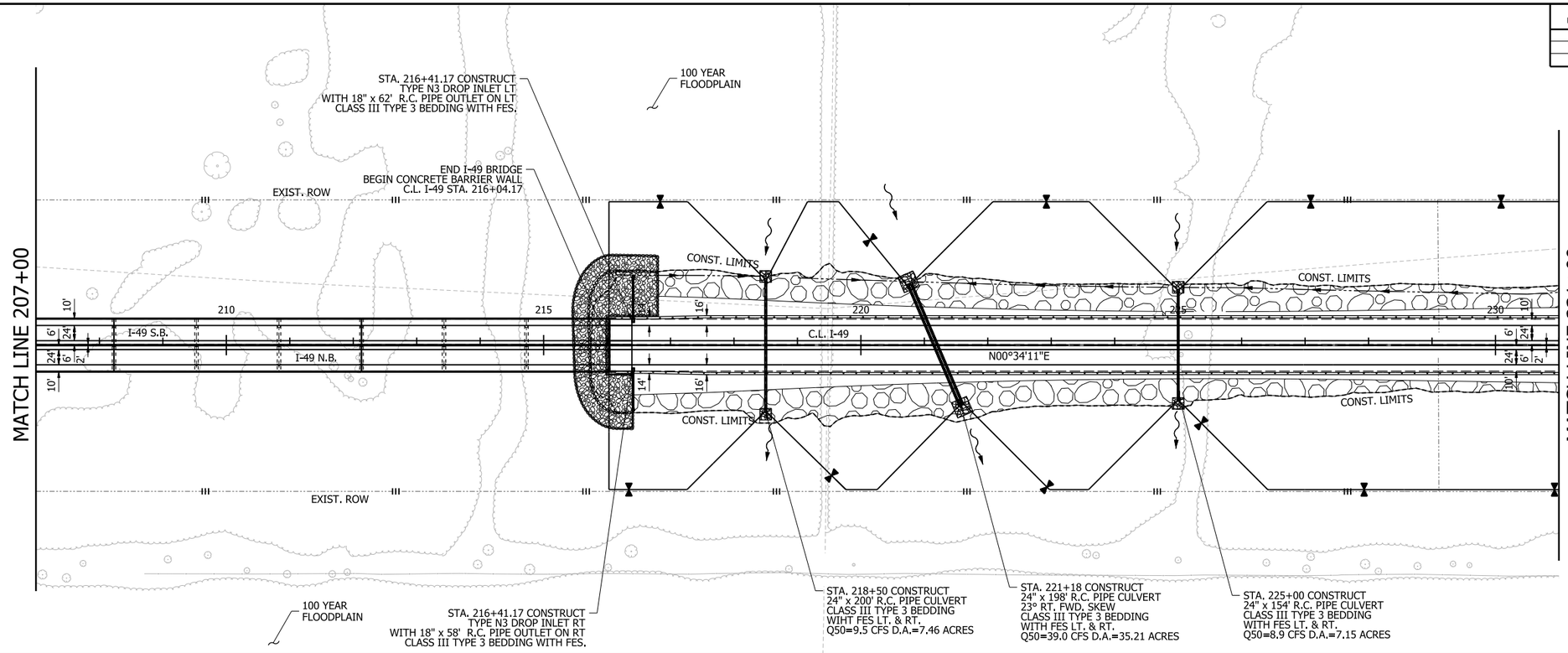
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



I-49

HORIZ. SCALE IN FEET: 0 100 200 300 400 — 1"=200'

VERT. SCALE IN FEET: 0 20 40 60 80 — 1"=40'

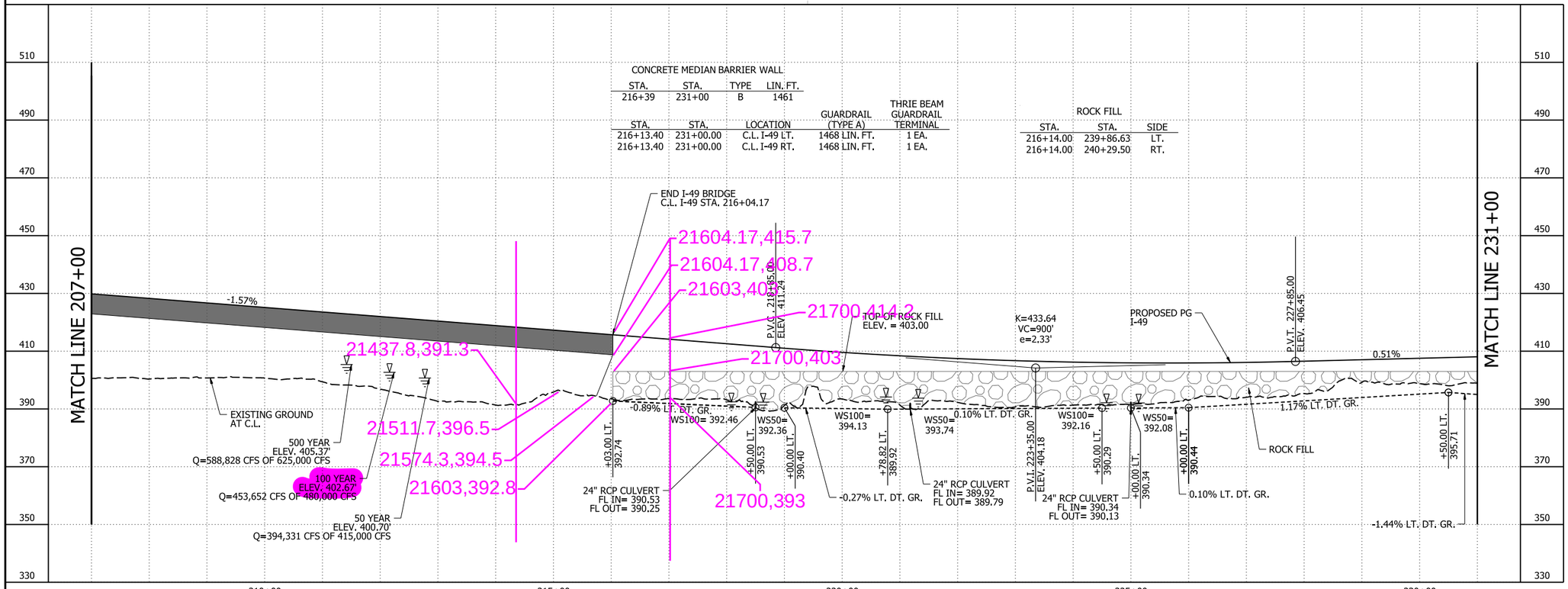
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
216+39	231+00	B	1461

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL
216+13.40	231+00.00	C.L. I-49 LT.	1468 LIN. FT.	1 EA.
216+13.40	231+00.00	C.L. I-49 RT.	1468 LIN. FT.	1 EA.

ROCK FILL

STA.	STA.	SIDE
216+14.00	239+86.63	LT.
216+14.00	240+29.50	RT.



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- BRIDGE
- PAVEMENT REMOVAL

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

I-49
PLAN AND PROFILE SHEETS

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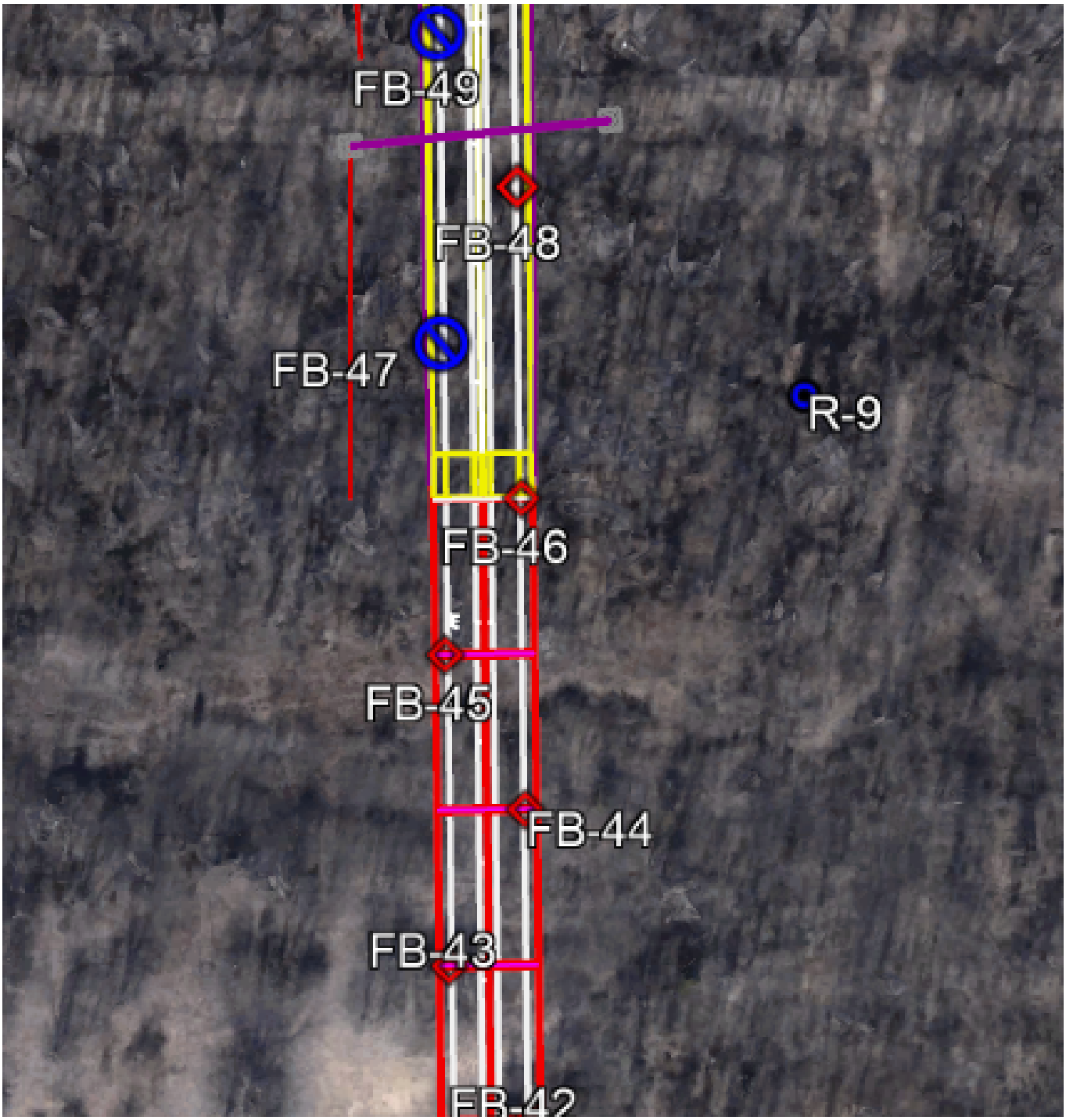
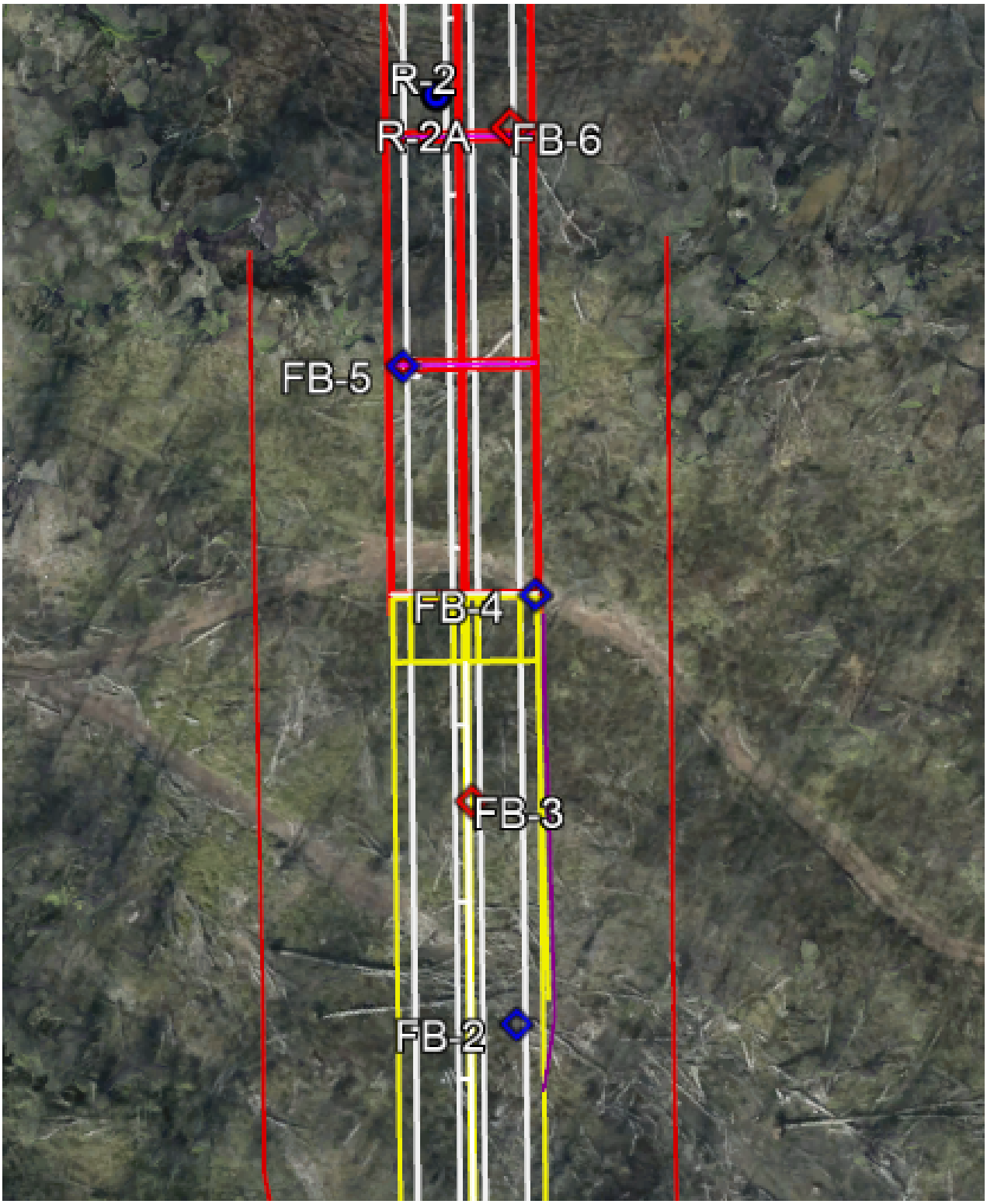
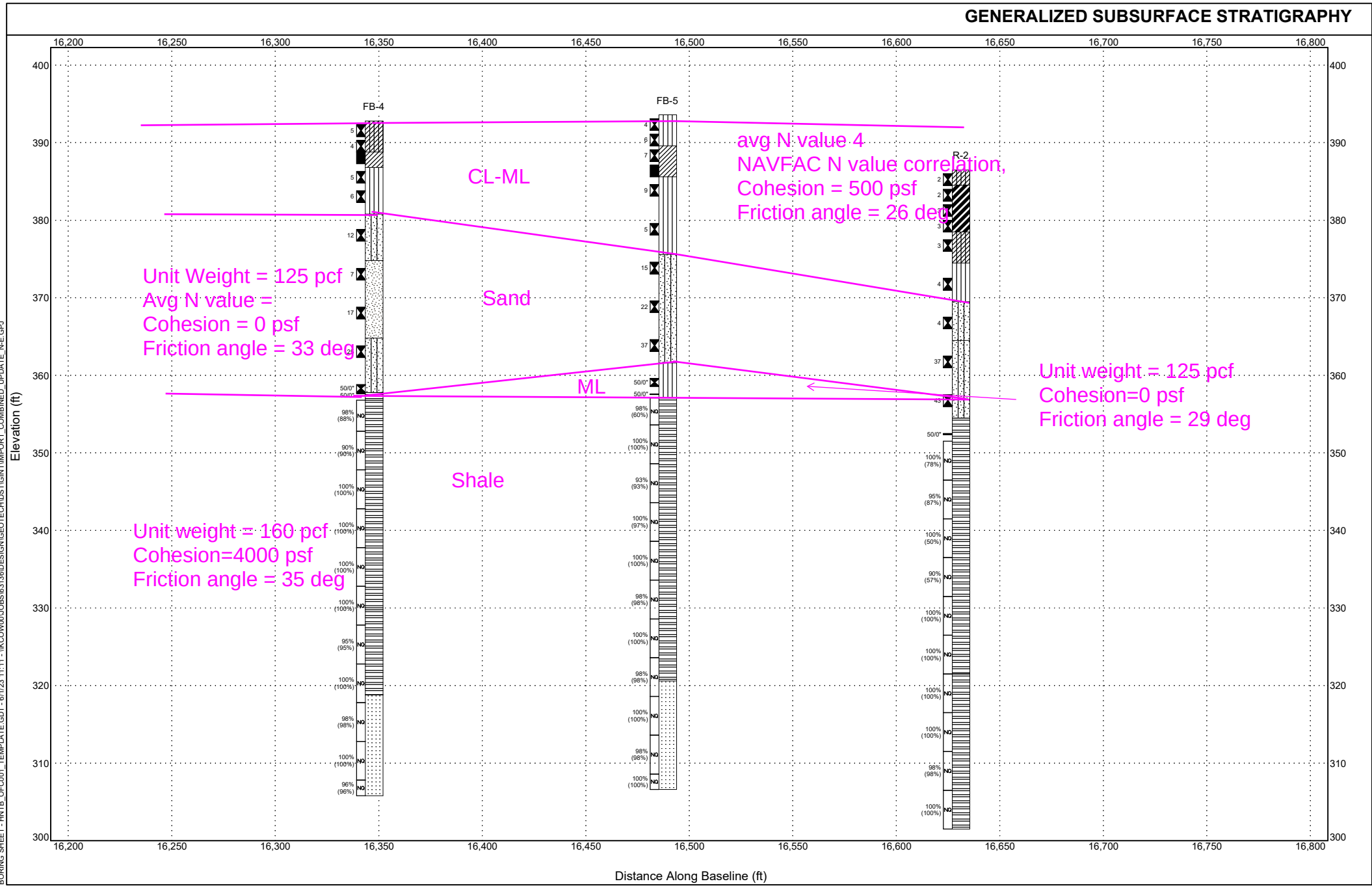
Used Boring R-9
Others borings logs are not available at this time



Used Borings FB-4, FB-5 and R-2



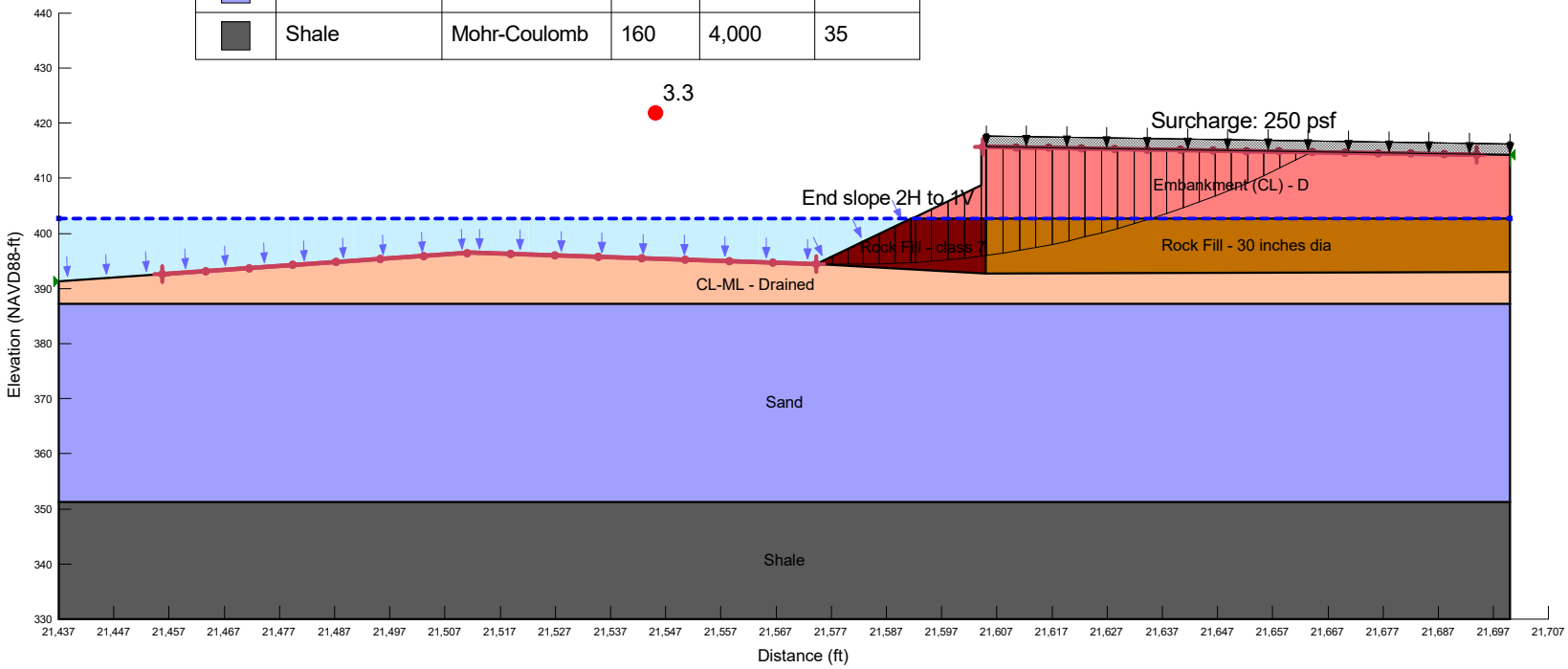
South approach end slopes



Only one boring for north approach end slope, i.e. R-9. Therefore refer to the boring log for the stratigraphy

North Approach End slope SLOPE/W results

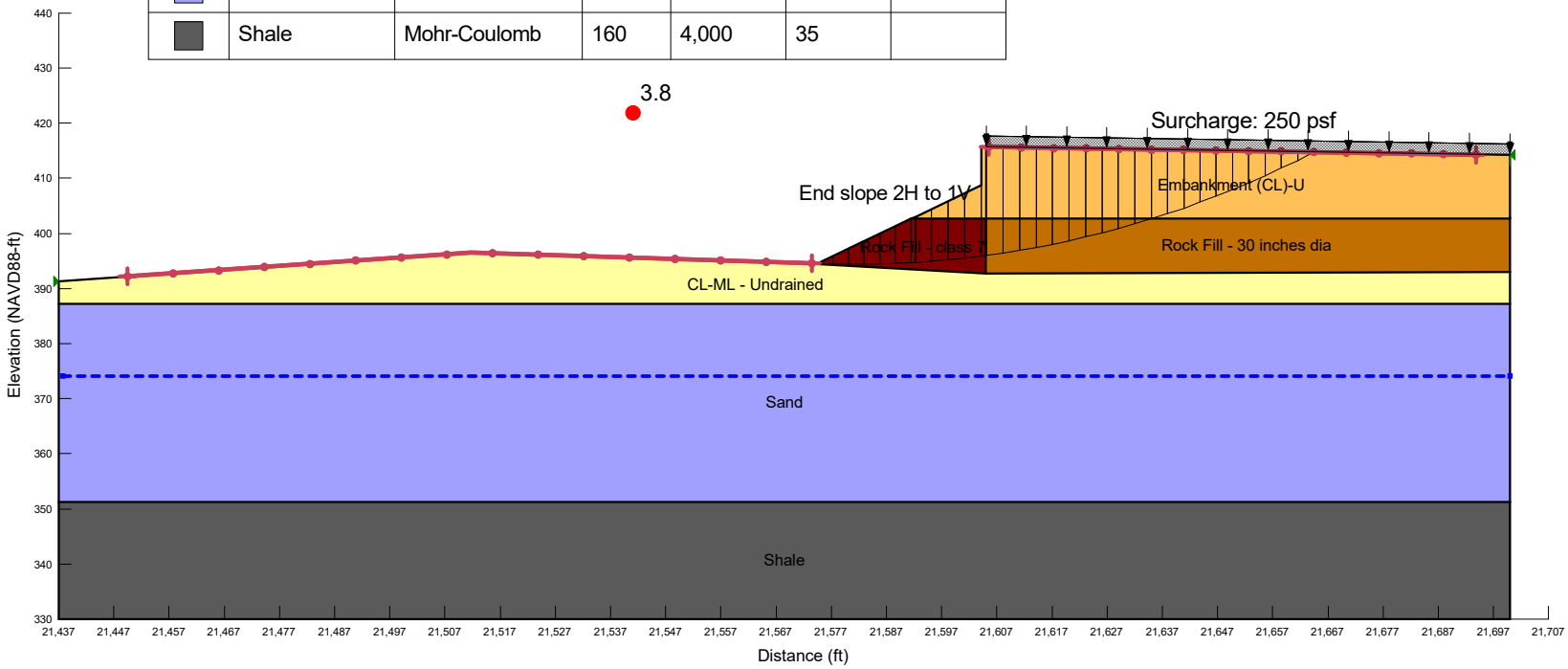
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL-ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Rock Fill - class 7	Mohr-Coulomb	135	0	40
	Sand	Mohr-Coulomb	125	0	33
	Shale	Mohr-Coulomb	160	4,000	35



	Project I-49 Crawford County		
	Analysis Description Bridge 1 North End Slopes Long Term		
	Designer/Author **AWW/PA**	*Station* 216+04.17	
Project Number 63136	*Date* 06/05/2023	*File Name* 1_North Approach End slope_20230605.gsz	

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_North Approach End slope_20230605.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL-ML - Undrained	Undrained (Phi=0)	120			500
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Rock Fill - class 7	Mohr-Coulomb	135	0	40	
	Sand	Mohr-Coulomb	125	0	33	
	Shale	Mohr-Coulomb	160	4,000	35	

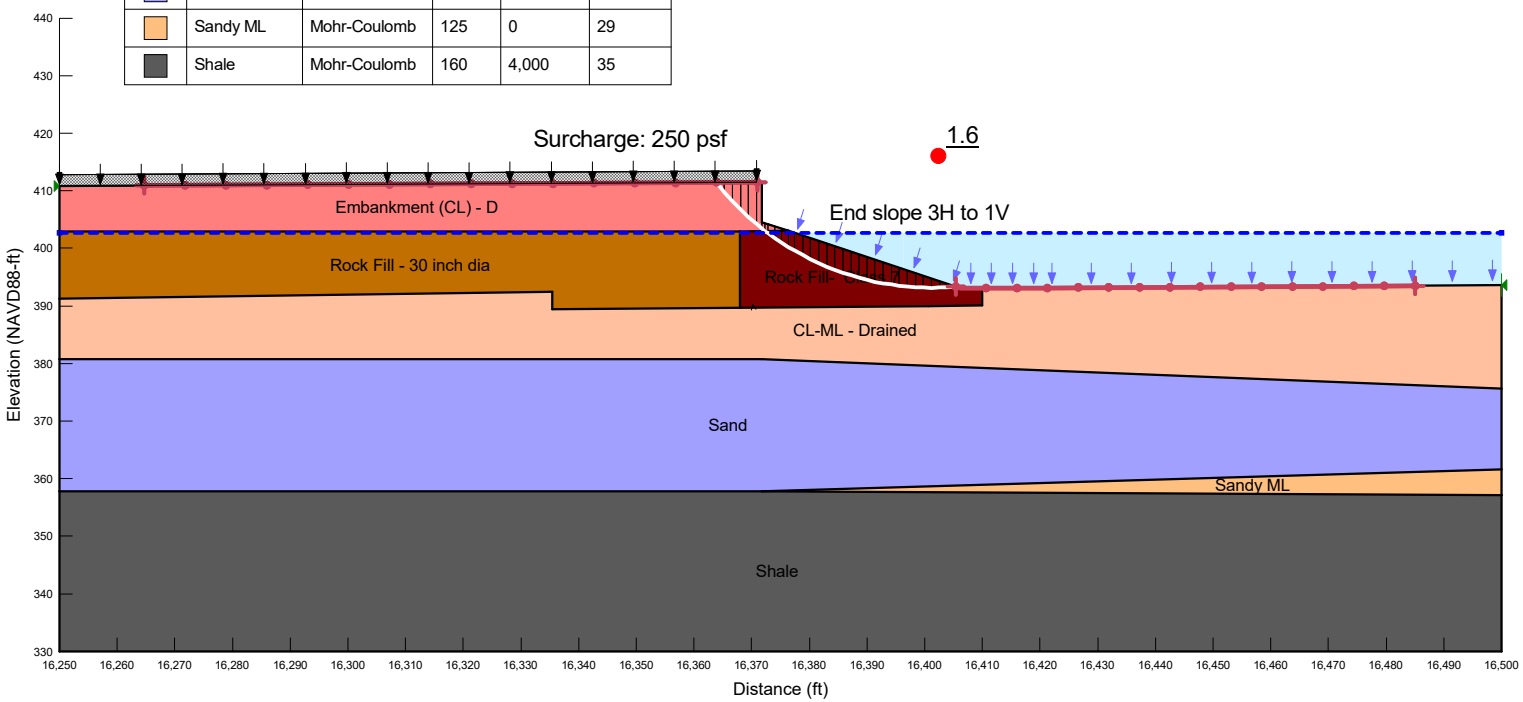


ARDOT HNTB	*Project* I-49 Crawford County		
	Analysis Description Bridge 1 North End Slopes Short Term		
	Designer/Author **AWW/PA**	*Station* 216+04.17	
Project Number 63136	*Date* 06/05/2023	*File Name* 1_North Approach End slope_20230605.gsz	

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_North Approach End slope_20230605.gsz

South Approach End slope SLOPE/W results

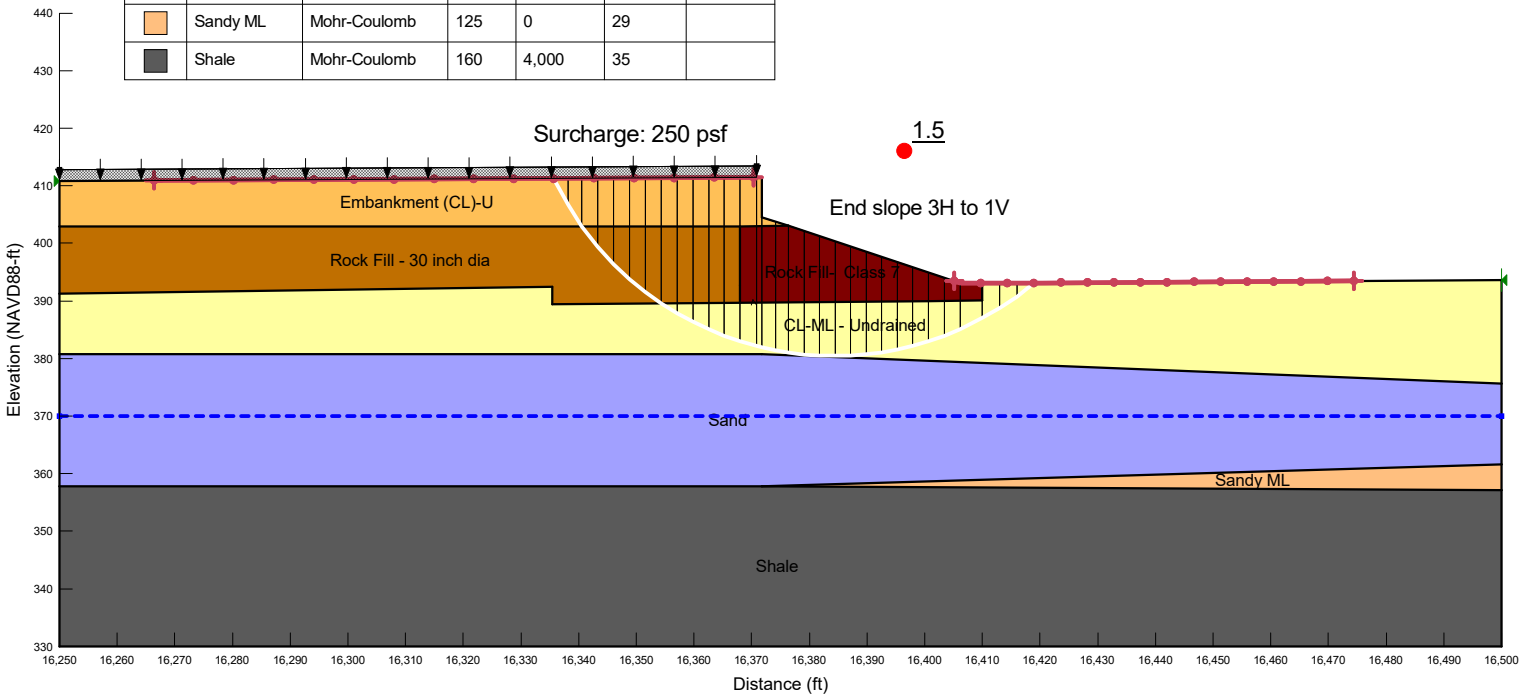
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL-ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inch dia	Mohr-Coulomb	145	0	40
	Rock Fill- Class 7	Mohr-Coulomb	135	0	40
	Sand	Mohr-Coulomb	125	0	33
	Sandy ML	Mohr-Coulomb	125	0	29
	Shale	Mohr-Coulomb	160	4,000	35



Project: I-49 Crawford County		
Analysis Description: Bridge 1 South End Slopes — Long Term		
Designer/Author: **AWW/PA**	Station: 163+75	
Project Number: 63136	Date: 06/05/2023	File Name: 1_South Approach End slope_20230605.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_South Approach End slope_20230605.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL-ML - Undrained	Undrained (Phi=0)	120			500
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	Rock Fill - 30 inch dia	Mohr-Coulomb	145	0	40	
	Rock Fill- Class 7	Mohr-Coulomb	135	0	40	
	Sand	Mohr-Coulomb	125	0	33	
	Sandy ML	Mohr-Coulomb	125	0	29	
	Shale	Mohr-Coulomb	160	4,000	35	



Project	I-49 Crawford County	
Analysis Description	Bridge 1 South End Slopes	Short Term
Designer/Author	AWW/PA	Station 163+75
Project Number 63136	Date 06/05/2023	File Name 1_South Approach End slope_20230605.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_South Approach End slope_20230605.gsz

Boring for North Approach End slope

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55

LOCATION: 35-35187° N -94.27980° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 393.2	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan fine sandy silt (ML)	2		Lets say average N value is 4 From NAVFAC N value Qu correlation, cohesion = 500 psf Friction angle = 26 deg			
			- very loose to loose below 2 ft	4					
5			EL 387.2	4		-NON-PLASTIC-	53		
			Medium dense tan silty fine sand (SM)	19		Unit weight = 125 pcf Cohesion=0 psf Friction angle = 33 deg from Bowles 1997			
			- with some coarse gravel below 8 ft	11					
10									
15			Medium dense tan fine sand w/trace silt (SP)	11			2		
			Medium dense reddish tan and tan fine to medium sand w/occasional fine to coarse gravel (SP)	29					
20									
			- dense at 24 to 29 ft	32					
25									
			- medium dense below 29 ft	23			4		
30									
			- with some coarse sand below 32 ft	23					

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55

LOCATION: 35-35187° N -94.27980° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
40				27					
			EL 351.2						
45			Moderately hard dark gray weathered shale w/close, very thin gray fine-grained sandstone partings, horizontal bedding	25/0"					
			Moderately hard dark gray shale w/very close, very thin gray fine-grained sandstone partings, horizontal bedding			Unit weight = 160 pcf Cohesion=4000 psf Friction angle = 35 deg		100	90
50					164	q_u= 4840 psi, TUW= 166 pcf		87	80
55								88	72
60			Low hardness to moderately hard dark gray shale, slightly weathered w/multiple fractures and occasional very thin gray fine-grained sandstone partings, horizontal bedding w/occasional pyrite inclusions		165	q_u= 3560 psi, TUW= 167 pcf		70	50
65			Moderately hard dark gray shale w/some very thin gray fine-grained sandstone partings, horizontal bedding		160	q_u= 5330 psi, TUW= 163 pcf		93	90

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55 LOCATION: 35-35187° N -94.27980° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard light gray fine-grained sandstone w/some very thin dark gray shale partings, horizontal bedding - with occasional plant fossils from 72 to 80 ft		167	q_u= 4050 psi, TUW= 170 pcf		95	95
75								100	100
80					163	q_u= 6840 psi, TUW= 165 pcf		100	93
			- with near-vertical fracture at 81.9 to 82.2 ft						
85								100	100
					166	q_u= 8280 psi, TUW= 168 pcf			
90			- with less shale below 90 ft					100	100
			- with occasional quartz vein below 94 ft						
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
100									

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Borings for South Approach End slope

21-071

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 33.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 392.8	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft brown clayey silt (CL-ML)	5 4					
5			Firm brown silty clay w/silt seams						
			Loose reddish tan silt (ML), slightly sandy	5 6					
10			EL 380.8						
			Medium dense reddish tan silty fine sand (SM)	12					
15			- water at 16.4 ft						
			Loose reddish tan fine to medium sand (SP), slightly silty	7					
20			- medium dense below 22 ft						
25				17					
			Medium dense tan silty fine sand (SM)	25					
30				19					

Lets say average N value is 5
From N value Qu correlation, cohesion = 700 psf
Based on lab test from nearest boring R-2, Average Su=300 psf.
Consider Su = 500 psf for the analysis
Friction angle = 26 deg

DRAFT

Unit weight = 125 pcf
Cohesion=0 psf
Friction angle = 33 deg from Bowles 1997

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 33.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued) EL 357.8	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray weathered shale	50/2"					
			Moderately hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding					98	88
40			Unit weight = 160 pcf Cohesion=4000 psf Friction angle = 35 deg					90	90
45								100	100
50								100	100
55								100	100
60			Moderately hard dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	100
65			Moderately hard dark gray shale, horizontal bedding					95	95

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 33.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	100
75			Moderately hard light gray fine-grained sandstone w/interbedded very close, very thin, dark gray shale partings, horizontal bedding					98	98
80								100	100
85								96	96
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by DT. NOTE 3: Logged by DRM.						
95									
100									

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-5

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA to 20 ft /Wash to 37 ft /NQ Core LOCATION: 35.33737°N, -94.28060°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 393.6	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft reddish brown clayey silt (ML)	4 6					
5			Firm reddish brown silty clay (CL) w/silt seams	7					
10			Loose reddish tan fine sandy silt (ML)	9					
15			EL 375.6	5					
20			Medium dense tan silty fine sand (SM)	15					
25				22					
30			- dense with some fine to coarse gravel below 28 ft EL 361.6	37					
			Medium dense brown silt (ML), slightly sandy	10		Unit weight = 125 pcf Cohesion=0 psf Friction angle = 29 deg			

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-17-23

DEPTH TO WATER IN BORING: 18.9 ft

DATE: 2/17/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-5

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA to 20 ft /Wash to 37 ft /NQ Core LOCATION: 35.33737°N, -94.28060°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			EL 357.1	50/1"					
			Moderately hard dark gray shale w/some gray fine-grained sandstone partings, horizontal bedding					98	60
40								100	100
45								93	93
50			- with high-angle shear at 51.5 ft					100	96
55								100	100
60								98	98
65			- with less sandstone partings below 64 ft					100	100

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-17-23

DEPTH TO WATER IN BORING: 18.9 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-5

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in HSA to 20 ft /Wash to 37 ft /NQ Core LOCATION: 35.33737°N, -94.28060°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								98	98
75			Moderately hard light gray sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
80								98	98
85								100	100
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by D.T. NOTE 3: Logged by DRM.						
95									
100									

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-17-23

DEPTH TO WATER IN BORING: 18.9 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

21-071

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-2

040748 Hwy 22 to I-40 (Arkansas River)
Sebastian County, Arkansas

TYPE: 3.25 in. HSA 35 ft /NQ Core - CME55

LOCATION: 35.33776° N -94.28053° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 386.5	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very soft reddish tan clayey silt (CL-ML)	2					
			- tube samples taken at 2 to 6 ft	2					
5			Very soft reddish brown clay w/occasional clayey silt layers (CH)	3		Su = 220 psf and 340 psf from lab test at 3 ft and 4 ft. Lets consider average of 300 psf			
			- clayey silt layer at 4.5 to 5.5 ft	3					
			EL 378.5						
10			Very soft brownish gray clayey silt w/clay seams (CL-ML)	3					
15			Very loose to loose reddish tan fine sandy silt (ML)	4					
			EL 369.5						
20			Very loose to loose reddish tan silty fine sand (SM)	4					
25			Dense tannish gray fine to medium sand w/occasional fine gravel (SM-SP)	37		-NON-PLASTIC-	6		
30				43					
			EL 354.5						
35			Moderately hard dark gray shale, slightly weathered w/some very thin gray fine-grained sandstone partings, horizontal bedding	50/1.5"				100	78
40					159	q_u= 1400 psi, TUW= 164 pcf		95	87

COMPLETION DEPTH: 85.0 ft
DATE: 3-15-22

DEPTH TO WATER IN BORING: 34 ft

DATE: 3/14/2022

RECRQDN200-2 21-071_SEBASTIAN COUNTY.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-2

040748 Hwy 22 to I-40 (Arkansas River)
Sebastian County, Arkansas

TYPE: 3.25 in. HSA 35 ft /NQ Core - CME55 LOCATION: 35.33776° N -94.28053° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- more weathered and fractured below 45 ft		158	q_u= 1780 psi, TUW= 163 pcf		100	50
50								90	57
55								100	100
60			Moderately hard to hard dark gray shale w/occasional very thin gray fine-grained sandstone partings, horizontal bedding					100	100
			- sandstone partings more frequent below 63 ft		155	q_u= 1320 psi, TUW= 161 pcf		100	100
65			Hard dark gray shale w/interbedded very thin gray fine-grained sandstone partings, horizontal bedding					100	100
70					163	q_u= 4030 psi, TUW= 165		100	100
75								98	98
80			Moderately hard dark gray shale w/occasional very thin gray fine-grained sandstone partings, horizontal bedding - near vertical fracture at 82 ft, 83.5 ft and 84.5 ft		162	q_u= 3240 psi, TUW= 165 pcf		100	100
85			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						

COMPLETION DEPTH: 85.0 ft
DATE: 3-15-22

DEPTH TO WATER IN BORING: 34 ft

DATE: 3/14/2022

RECRQDN200-2 21-071_SEBASTIAN COUNTY.GPJ 6-3-22

Project: I-49	Job No: 63136	Design Criteria Document:
Client: ArDOT	Discipline: Geotechnical	Calculation No: 1

Name or Description of Calculation: Bridge 1 side slopes

Note: Unique QF 06 to be created for each revision of a calculation.

Calc. Rev. No.	Description of Change (i.e., Original Issue or description of changes since last revision)	Confirmation required with other deliverables (Y/N)	List Deliverables for which confirmation is required (NA if none) Add additional rows as necessary	Confirmation Verified by Originator of Calc for each deliverable listed (Y/N)
0	Original			
1	Revision			

Calculation Objective:

Bridge 1 North and South approach side slopes stability.

Calculation Methodology/List of Assumptions:

1. NAVFAC correlation of Standard Penetration Resistance

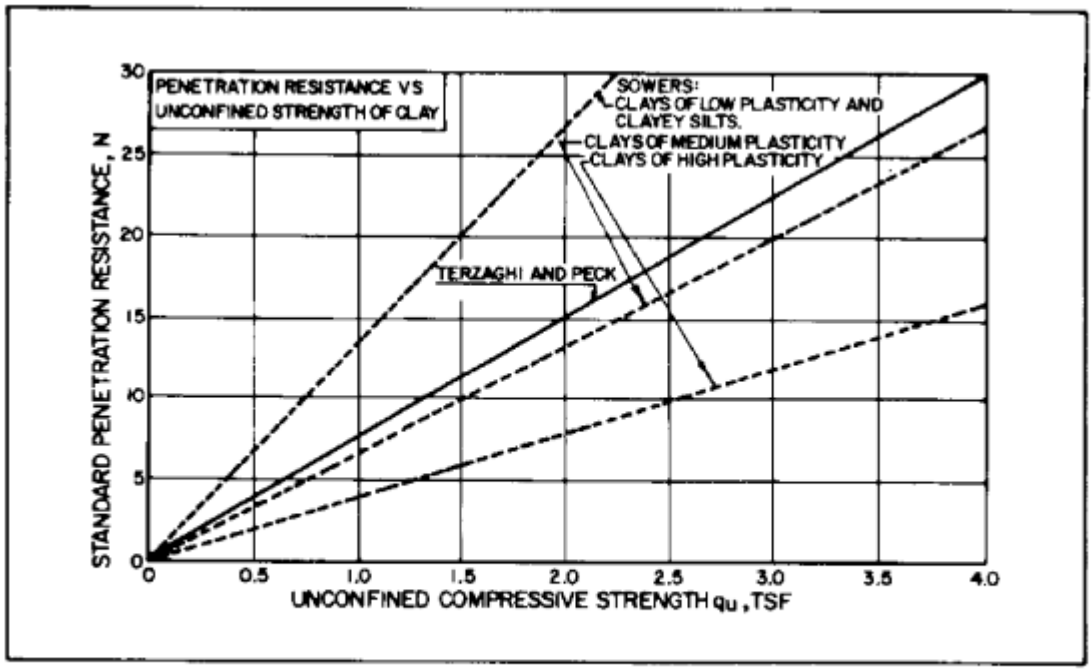


FIGURE 4
Correlations of Standard Penetration Resistance

2. Correlations with N values of cohesionless soils, after Bowles, 1997.

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Description	Relative Density, *Dr* (%)	Friction Angle, φ'(Deg.)	N Value
Very loose	Less than 15	25 - 28	< 4
Loose	15 - 60	29 - 32	4 - 10
Medium	60 - 75	33 - 35	10 - 30
Dense	75 - 90	36 - 40	30 - 50
Very dense	Over 90	41 - 45	Over 50

Correlations with N values of cohesionless soils, after Bowles, 1997.

3. Minimum factor of safety requirement for side slope is 1.3. (AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.)

FIGURE 4.4.8.2.2A Relationship Between Elastic Modulus and Uniaxial Compressive Strength fo Modified after Deere (1968)

or near a slope by limiting equilibrium methods of analysis which employ the Modified Bishop, simplified Janbu, Spenser or other generally accepted methods of slope stability analysis. Where soil and rock parameters and ground water levels are based on in-situ and/or laboratory tests, the minimum factor of safety shall be 1.3 (or 1.5 where abutments are supported above a slope). Otherwise, the minimum factor of safety shall be 1.5 (or 1.8 where abutments are supported above a retaining wall).

4.4.10 Dynamic/Seismic Design

Refer to Division I-A and Lam and Martin (1986a; 1986b) for guidance regarding the design of footings subjected to dynamic and seismic loads.

4.4.11 Structural Design

4.4.11.1 Loads and Reactions

4.4.11.1.1 Action of Loads and R

Footings shall be considered as u
downward forces, due to the superimp
by an upward pressure exerted by the
als and distributed over the area of th
mined by the eccentricity of the resulta
forces. Where piles are used under fo
reaction of the foundation shall be co
of concentrated loads applied at the pil
being assumed to carry the computed
footing load.

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4. 100-year flood elevation (402.67 ft) is used for the water table.
5. Reference boring for north approach side slope is FB-46.
6. Reference boring for south approach side slope is FB-4.

References/Inputs:
Boring logs

For Strength parameters, refer to "Calculation package_Bridge 1 end slopes stability CLEAN" dated 06/05/2023.

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AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets

Attachments: (List each attachment following the subject calculation)
Boring logs for stratigraphy
AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets

Conclusions:

Results are in below table:

Side slopes	South approach side slope		North approach side slope	
	Long term (Drained)	Short term (Undrained)	Long term (Drained)	Short term (Undrained)
3H:1V (Left to right slip surface)	1.9	1.6	1.9	1.6
3H:1V (Right to left slip surface)	1.9	1.7	1.9	1.6

Document Check:	Name	Signature	Date
Originator:	Pradip Adhikari	PA	04/21/2023
Checker:	Michael De Stigter	MJLD	05/10/2023
Backchecker:	Pradip Adhikari	PA	06/05/2023
Updater:	Pradip Adhikari	PA	06/05/2023
Verifier:	Michael De Stigter	MJLD	06/07/2023

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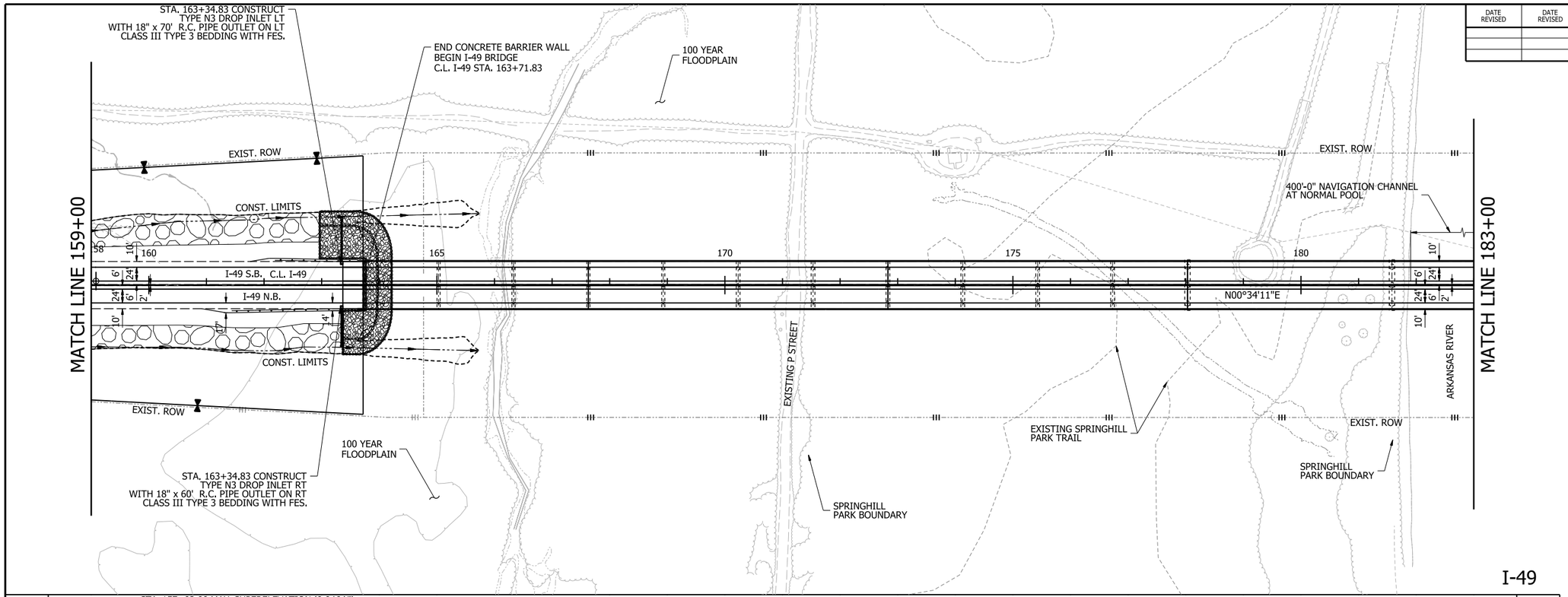
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	74	230
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

I-49

STA. 157+02.00 MAX. SUPERELEVATION (0.046 '/')
STA. 160+52.00 END SUPERELEVATION

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
159+00	164+77	LT.	5' CHAIN LINK	578
159+00	164+77	RT.	5' CHAIN LINK	578

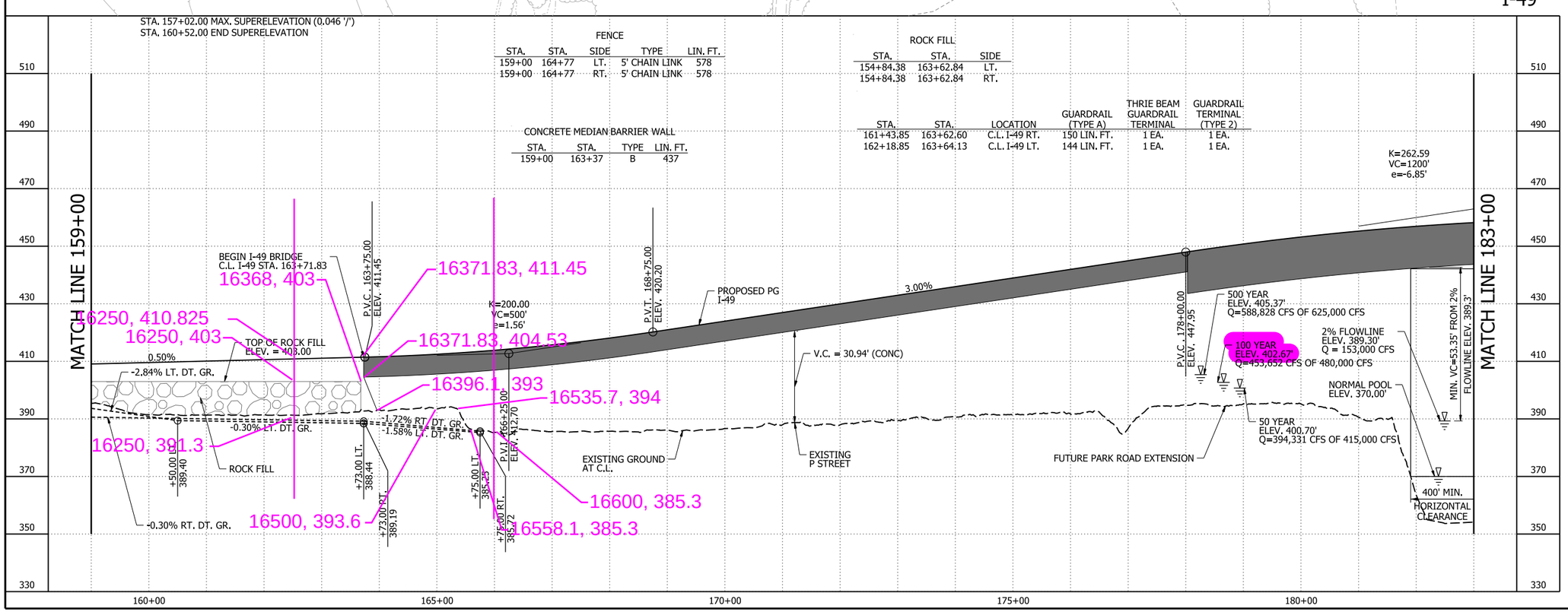
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
159+00	163+37	B	437

ROCK FILL

STA.	STA.	SIDE
154+84.38	163+62.84	LT.
154+84.38	163+62.84	RT.

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
161+43.85	163+62.60	C.L. I-49 RT.	150 LIN. FT.	1 EA.	1 EA.
162+18.85	163+64.13	C.L. I-49 LT.	144 LIN. FT.	1 EA.	1 EA.



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- BRIDGE
- PAVEMENT REMOVAL

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

I-49
PLAN AND PROFILE SHEETS

2/28/2023 10:01:03 AM
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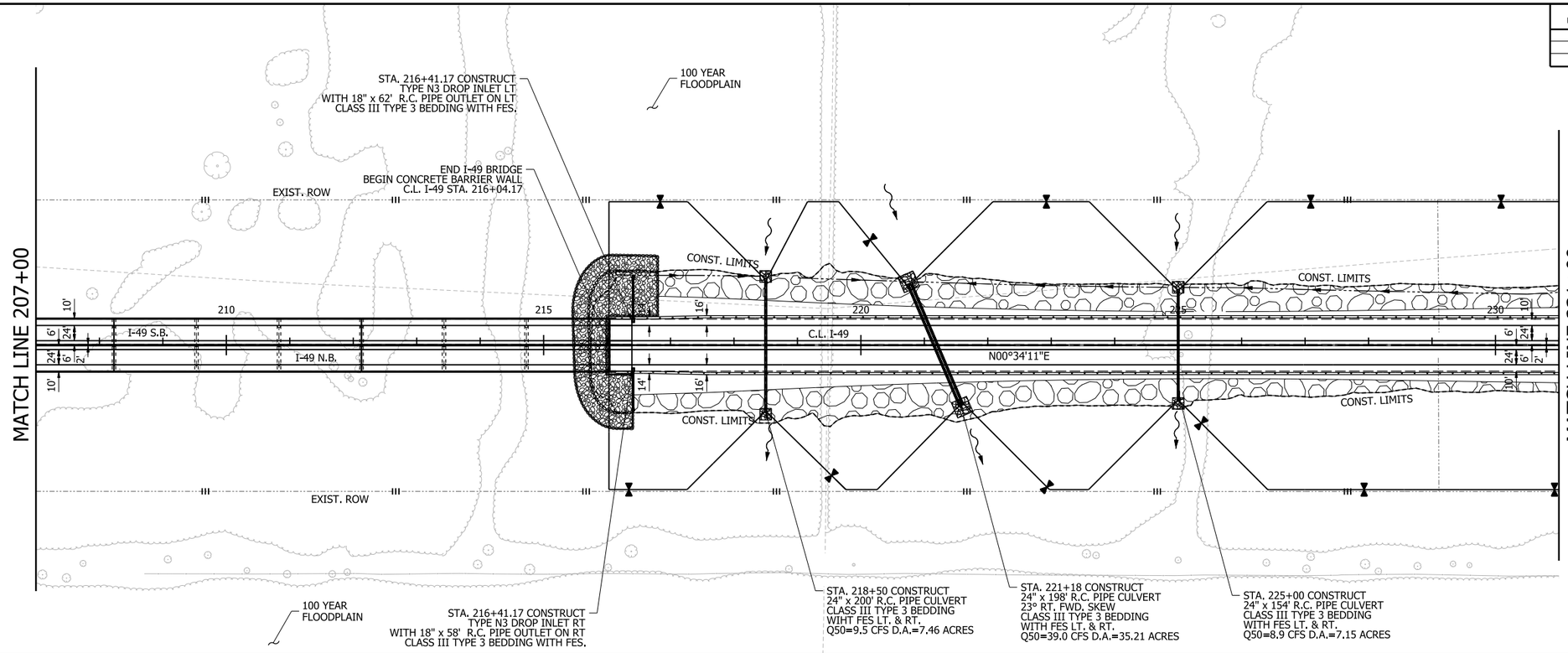
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	76	230
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



I-49

HORIZ. SCALE IN FEET: 0 100 200 300 400 — 1"=200'

VERT. SCALE IN FEET: 0 20 40 60 80 — 1"=40'

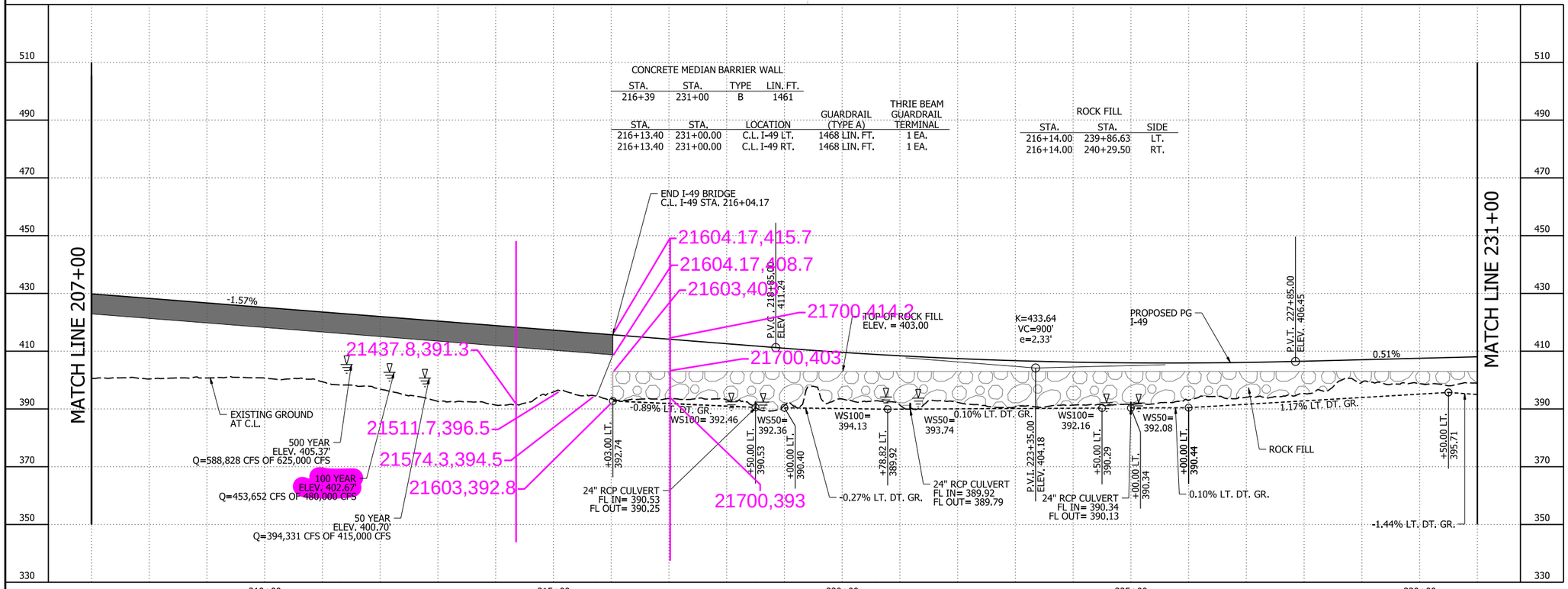
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
216+39	231+00	B	1461

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL
216+13.40	231+00.00	C.L. I-49 LT.	1468 LIN. FT.	1 EA.
216+13.40	231+00.00	C.L. I-49 RT.	1468 LIN. FT.	1 EA.

ROCK FILL

STA.	STA.	SIDE
216+14.00	239+86.63	LT.
216+14.00	240+29.50	RT.



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- BRIDGE
- PAVEMENT REMOVAL

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

I-49
PLAN AND PROFILE SHEETS

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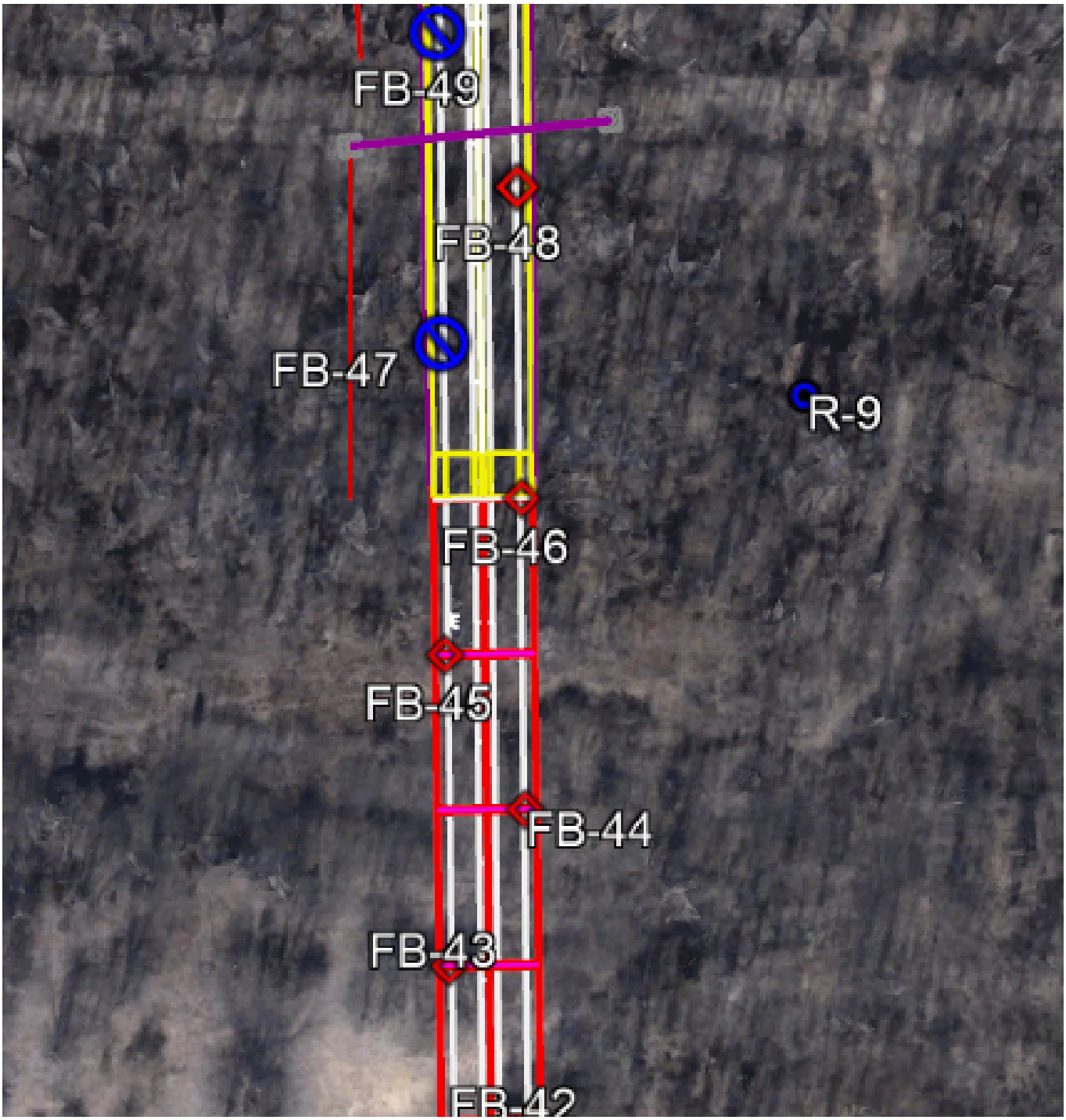
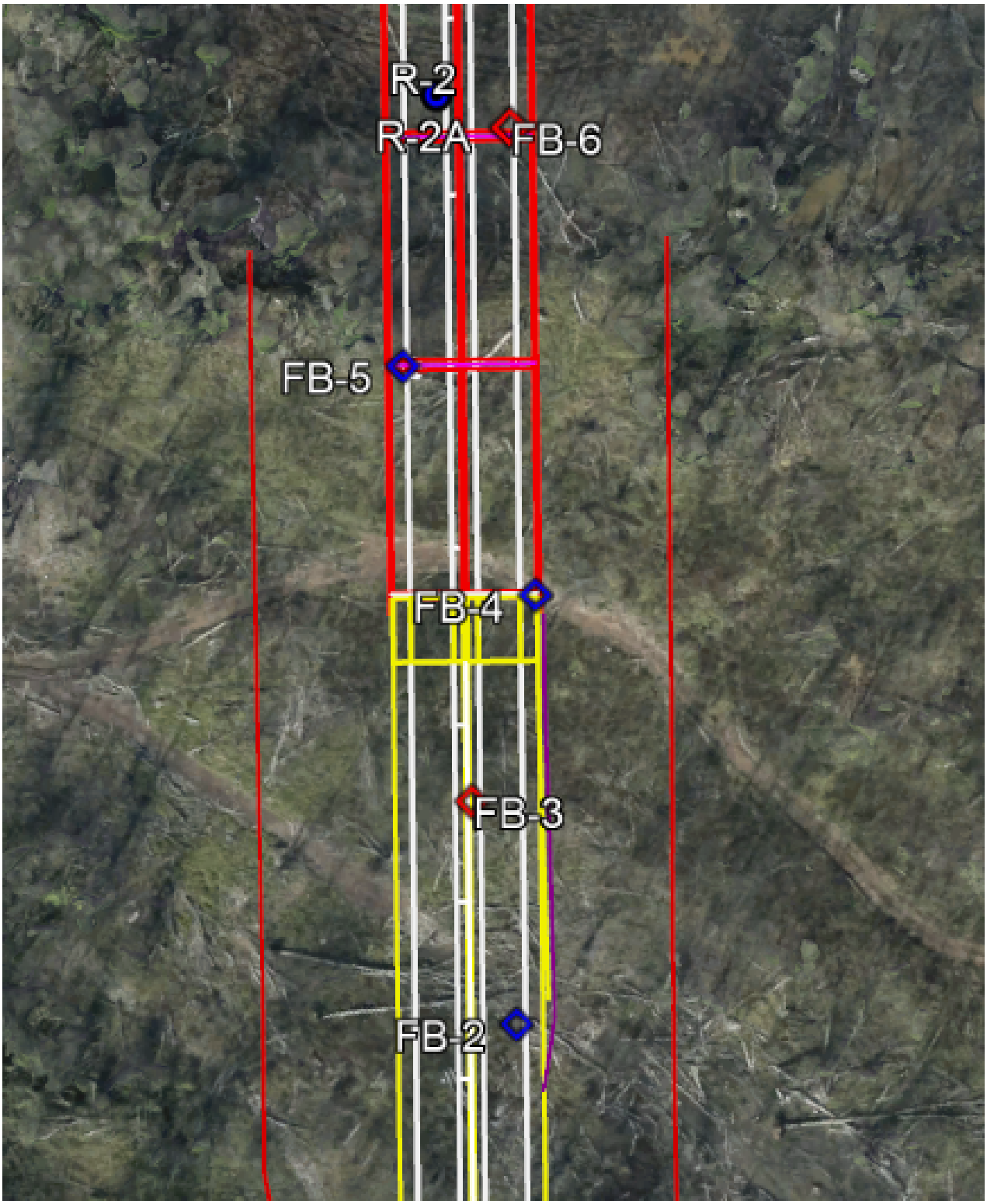
Used Boring R-9
Others borings logs are not available at this time

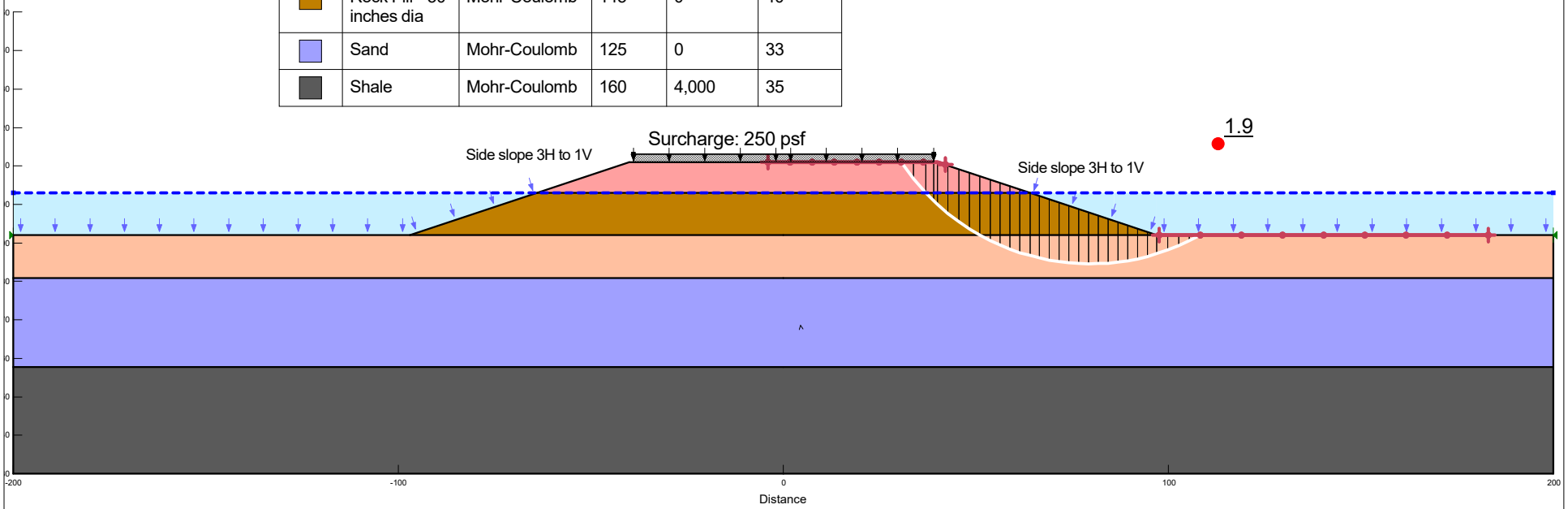


Used Borings FB-4, FB-5 and R-2



SLOPE/W North Approach Side slope

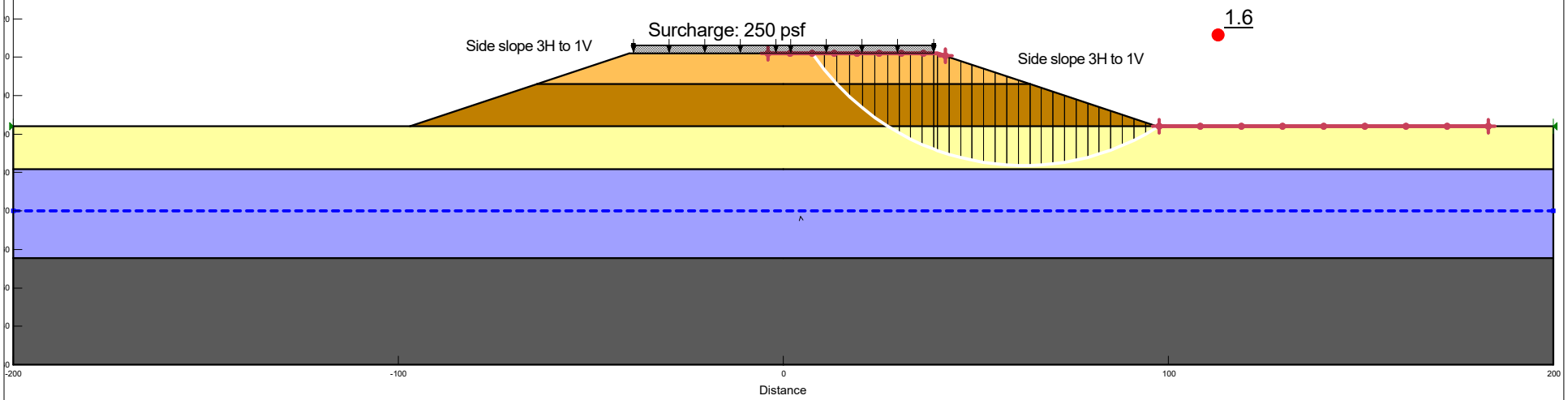
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL-ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	33
	Shale	Mohr-Coulomb	160	4,000	35



Project	I-49 Crawford County	
Analysis Description	Bridge 1 North Approach Side Slopes Long Term	
Designer/Author	PA	Station 219+00
Project Number 63136	Date 06/05/2023	File Name 1_North Approach side slope_20230605.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_North Approach side slope_20230605.gsz

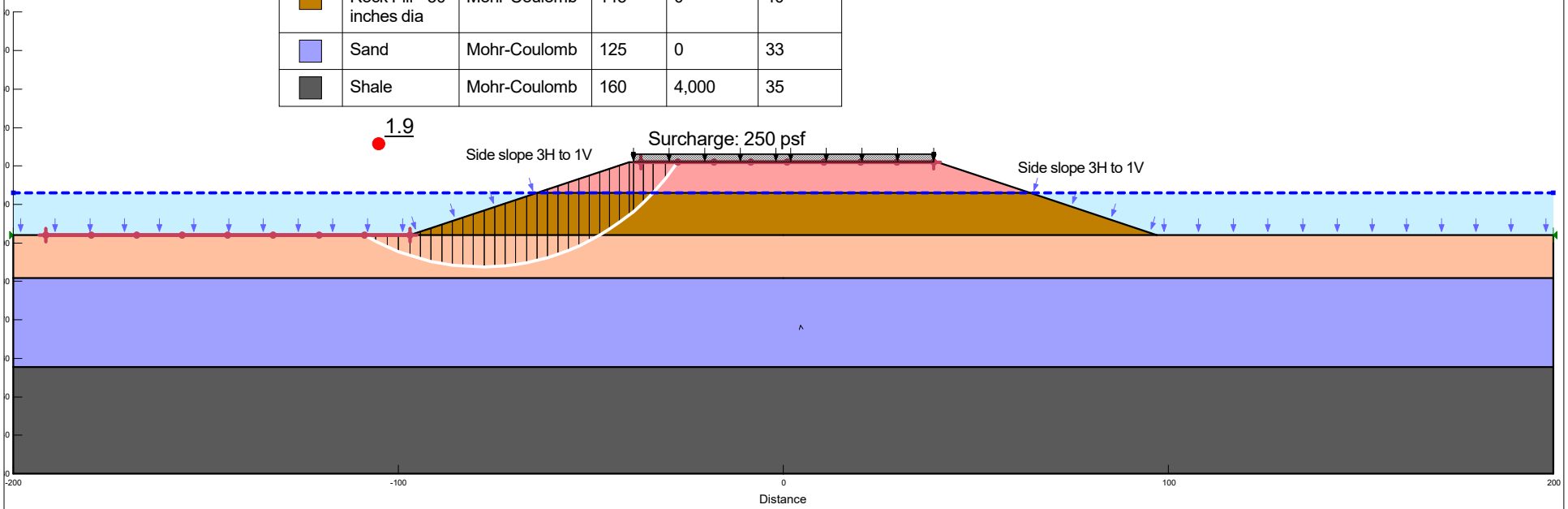
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL-ML - Undrained	Undrained (Phi=0)	120			500
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Sand	Mohr-Coulomb	125	0	33	
	Shale	Mohr-Coulomb	160	4,000	35	



	Project: I-49 Crawford County	
	Analysis Description: Bridge 1 North Approach Side Slopes Short Term	
	Designer/Author: PA	Station: 219+00
Project Number: 63136	Date: 06/05/2023	File Name: 1_North Approach side slope_20230605.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_North Approach side slope_20230605.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL-ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	33
	Shale	Mohr-Coulomb	160	4,000	35



Project	I-49 Crawford County	
Analysis Description	Bridge 1 North Approach Side Slopes	Long Term
Designer/Author	PA	Station 219+00
Project Number 63136	Date 06/05/2023	File Name 1_North Approach side slope_20230605.gsz

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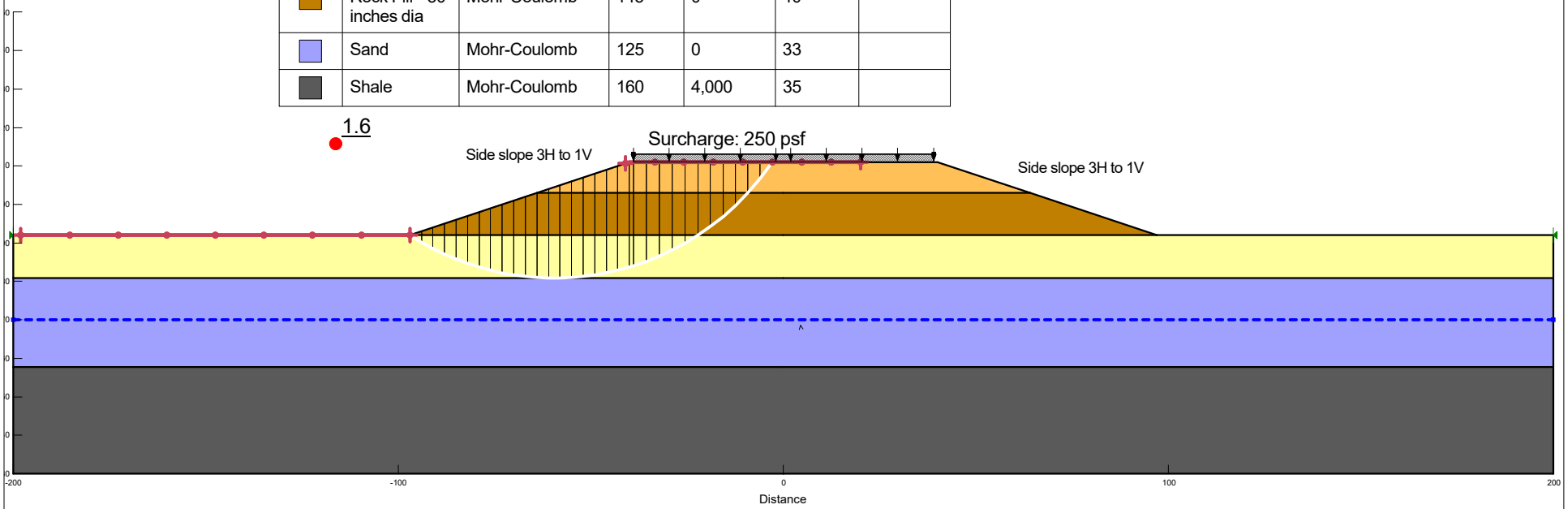
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL-ML - Undrained	Undrained (Phi=0)	120			500
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Sand	Mohr-Coulomb	125	0	33	
	Shale	Mohr-Coulomb	160	4,000	35	

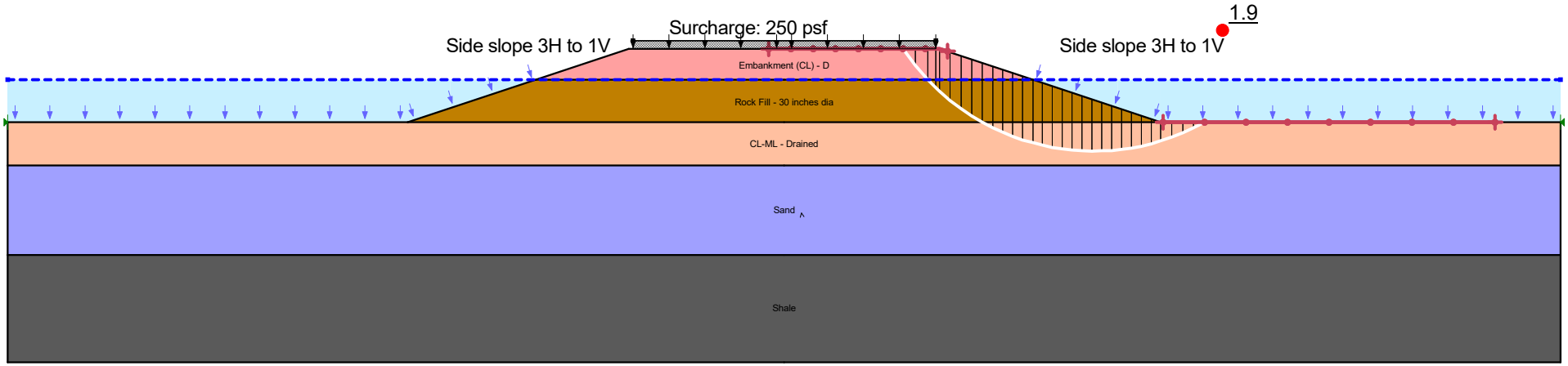


	Project I-49 Crawford County	
	Analysis Description Bridge 1 North Approach Side Slope Short Term	
	Designer/Author **PA**	*Station* 219+00
Project Number 63136	*Date* 06/05/2023	*File Name* 1_North Approach side slope_20230605.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_North Approach side slope_20230605.gsz

SLOPE/W South Approach Side slope

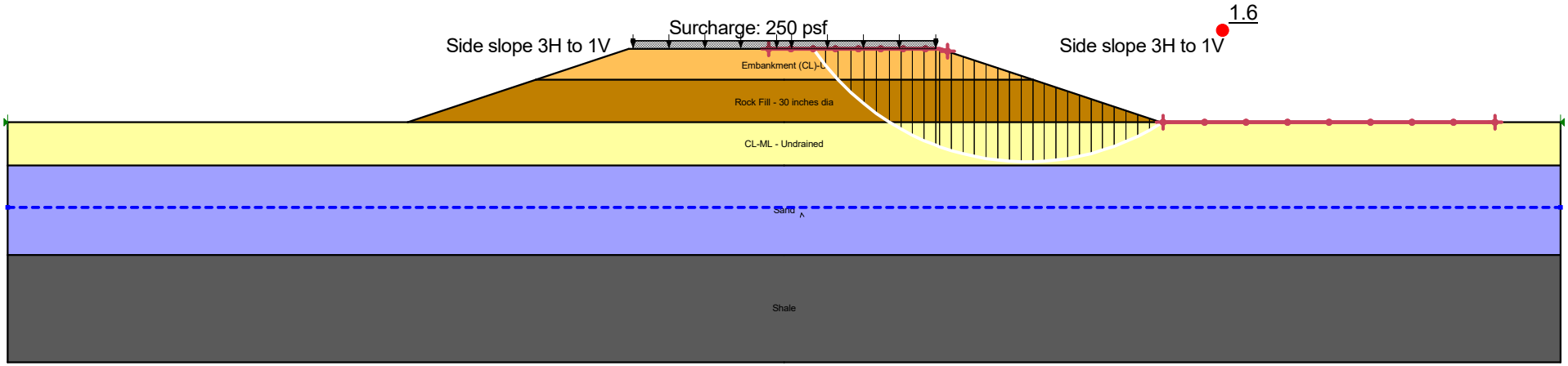
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL-ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	33
	Shale	Mohr-Coulomb	160	4,000	35



	Project: I-49 Crawford County		
	Analysis Description: Bridge 1 South Approach Side Slopes	Long Term	
	Designer/Author: PA	Station: 163+20	
Project Number: 63136	Date: 06/05/2023	File Name: 1_South Approach side slope_20230605.gsz	

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_South Approach side slope_20230605.gsz

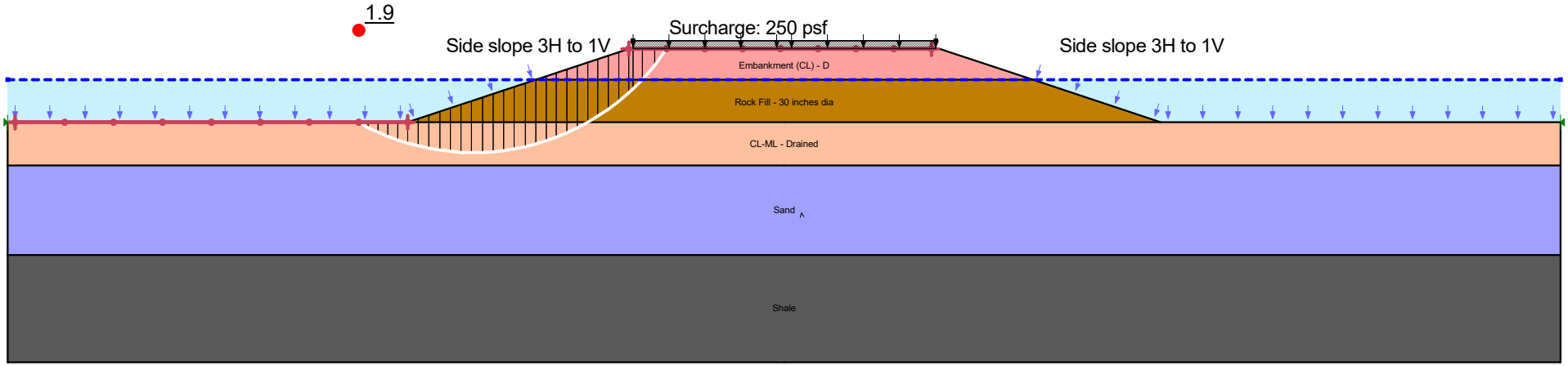
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL-ML - Undrained	Undrained (Phi=0)	120			500
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Sand	Mohr-Coulomb	125	0	33	
	Shale	Mohr-Coulomb	160	4,000	35	



	Project: I-49 Crawford County		
	Analysis Description: Bridge 1 South Approach Side Slopes — Short Term		
	Designer/Author: PA	Station: 163+20	
Project Number: 63136	Date: 06/05/2023	File Name: 1_South Approach side slope_20230605.gsz	

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_South Approach side slope_20230605.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL-ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	33
	Shale	Mohr-Coulomb	160	4,000	35



Project	I-49 Crawford County		
Analysis Description	Bridge 1 South Approach Side Slopes	Long Term	
Designer/Author	PA	Station	163+20
Project Number 63136	Date 06/05/2023	File Name	1_South Approach side slope_20230605.gsz

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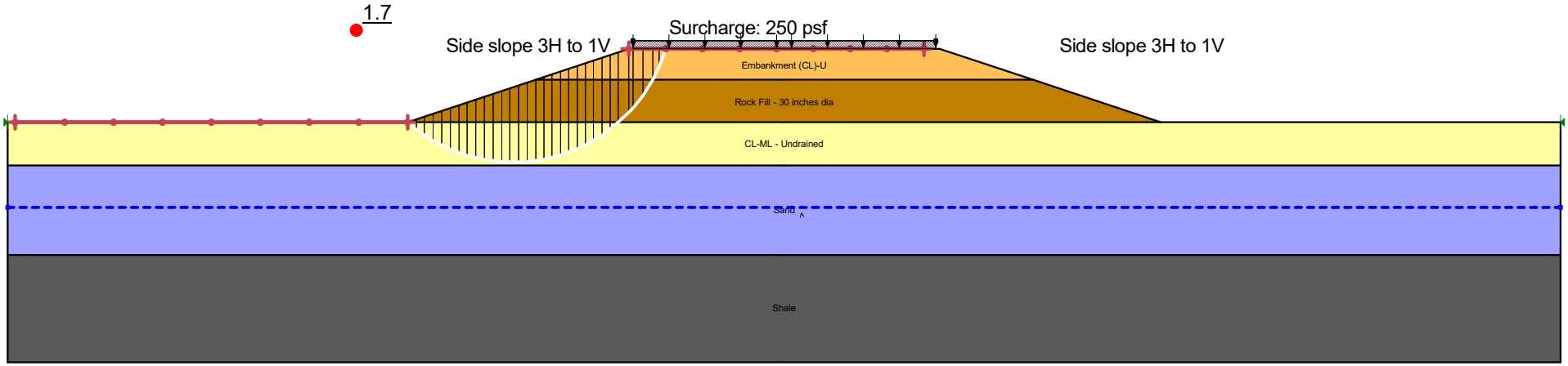
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL-ML - Undrained	Undrained (Phi=0)	120			500
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Sand	Mohr-Coulomb	125	0	33	
	Shale	Mohr-Coulomb	160	4,000	35	



Project	I-49 Crawford County		
Analysis Description	Bridge 1 South Approach Side Slopes Short Term		
Designer/Author	PA	Station	163+20
Project Number 63136	Date 06/05/2023	File Name	1_South Approach side slope_20230605.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 1SB-NB Final\1_South Approach side slope_20230605.gsz

Boring for North Approach Side slope

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55

LOCATION: 35-35187° N -94.27980° E

SURF. EL: 393.2

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT – WATER CONTENT – LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose reddish tan fine sandy silt (ML)	2					
			- very loose to loose below 2 ft	4					
5			EL 387.2	4		-NON-PLASTIC-	53		
			Medium dense tan silty fine sand (SM)	19					
10			- with some coarse gravel below 8 ft	11					
15			Medium dense tan fine sand w/trace silt (SP)	11			2		
20			Medium dense reddish tan and tan fine to medium sand w/occasional fine to coarse gravel (SP)	29					
25			- dense at 24 to 29 ft	32					
30			- medium dense below 29 ft	23			4		
			- with some coarse sand below 32 ft	23					

Lets say average N value is 4
From NAVFAC N value Qu correlation, cohesion = 500 psf
Friction angle = 26 deg

Unit weight = 125 pcf
Cohesion=0 psf
Friction angle = 33 deg, Bowles 1997

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55

LOCATION: 35-35187° N -94.27980° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
40				27					
			EL 351.2						
45			Moderately hard dark gray weathered shale w/close, very thin gray fine-grained sandstone partings, horizontal bedding	25/0"					
			Moderately hard dark gray shale w/very close, very thin gray fine-grained sandstone partings, horizontal bedding			Unit weight = 160 pcf Cohesion=4000 psf Friction angle = 35 deg		100	90
50					164	q_u= 4840 psi, TUW= 166 pcf		87	80
55								88	72
60			Low hardness to moderately hard dark gray shale, slightly weathered w/multiple fractures and occasional very thin gray fine-grained sandstone partings, horizontal bedding w/occasional pyrite inclusions		165	q_u= 3560 psi, TUW= 167 pcf		70	50
65			Moderately hard dark gray shale w/some very thin gray fine-grained sandstone partings, horizontal bedding		160	q_u= 5330 psi, TUW= 163 pcf		93	90

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-9

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 18 ft /Wash 45 ft /NQ Core - CME-55 LOCATION: 35-35187° N -94.27980° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard light gray fine-grained sandstone w/some very thin dark gray shale partings, horizontal bedding - with occasional plant fossils from 72 to 80 ft		167	q_u= 4050 psi, TUW= 170 pcf		95	95
75								100	100
80					163	q_u= 6840 psi, TUW= 165 pcf		100	93
			- with near-vertical fracture at 81.9 to 82.2 ft						
85								100	100
					166	q_u= 8280 psi, TUW= 168 pcf			
90			- with less shale below 90 ft					100	100
			- with occasional quartz vein below 94 ft						
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
100									

COMPLETION DEPTH: 95.0 ft
DATE: 4-1-22

DEPTH TO WATER IN BORING: 19.1 ft

DATE: 3/31/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Boring for South Approach Side slope

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 33.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 392.8	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft brown clayey silt (CL-ML)	5 4					
5			Firm brown silty clay w/silt seams						
			Loose reddish tan silt (ML), slightly sandy	5 6					
10			EL 380.8						
			Medium dense reddish tan silty fine sand (SM)	12					
15			- water at 16.4 ft						
			Loose reddish tan fine to medium sand (SP), slightly silty	7					
20			- medium dense below 22 ft						
25				17					
			Medium dense tan silty fine sand (SM)	25					
30				19					

Lets say average N value is 5
From N value Qu correlation, cohesion = 700 psf
Based on lab test from nearest boring R-2, Average Su=300 psf.
Consider Su = 500 psf for the analysis
Friction angle = 26 deg

DRAFT

Unit weight = 125 pcf
Cohesion=0 psf
Friction angle = 33 deg

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 33.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued) EL 357.8	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard dark gray weathered shale	50/2"					
			Moderately hard dark gray shale w/occasional gray fine-grained sandstone partings, horizontal bedding					98	88
40			Unit weight = 160 pcf Cohesion=4000 psf Friction angle = 35 deg					90	90
45								100	100
50								100	100
55								100	100
60			Moderately hard dark gray shale w/interbedded very close, very thin gray fine-grained sandstone partings, horizontal bedding					100	100
65			Moderately hard dark gray shale, horizontal bedding					95	95

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-4

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA to 25 ft /Wash 37 ft /NQ Core-Diedrich D-50 LOCATION: 33.336983°N, -94.280346°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	100
75			Moderately hard light gray fine-grained sandstone w/interbedded very close, very thin, dark gray shale partings, horizontal bedding					98	98
80								100	100
85								96	96
90			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by DT. NOTE 3: Logged by DRM.						
95									
100									

DRAFT

COMPLETION DEPTH: 87.0 ft
DATE: 2-18-23

DEPTH TO WATER IN BORING: 16.4 ft

DATE: 2/17/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 2-21-23

Project: I-49	Job No: 63136	Design Criteria Document:
Client: ArDOT	Discipline: Geotechnical	Calculation No: 2

Name or Description of Calculation: Bridge 16 end slopes

Note: Unique QF 06 to be created for each revision of a calculation.

Calc. Rev. No.	Description of Change (i.e., Original Issue or description of changes since last revision)	Confirmation required with other deliverables (Y/N)	List Deliverables for which confirmation is required (NA if none) Add additional rows as necessary	Confirmation Verified by Originator of Calc for each deliverable listed (Y/N)
0	Original			
1	Revision			
2	Revision			

Calculation Objective:

Bridge 16 North and South approach end slopes stability.

Calculation Methodology/List of Assumptions:

1. Minimum factor of safety requirement for end slope is 1.5. (AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.)

FIGURE 4.4.8.2.2A Relationship Between Elastic Modulus and Uniaxial Compressive Strength fo Modified after Deere (1968)

or near a slope by limiting equilibrium methods of analysis which employ the Modified Bishop, simplified Janbu, Spenser or other generally accepted methods of slope stability analysis. Where soil and rock parameters and ground water levels are based on in-situ and/or laboratory tests, the minimum factor of safety shall be 1.3 (or 1.5 where abutments are supported above a slope). Otherwise, the minimum factor of safety shall be 1.5 (or 1.8 where abutments are supported above a retaining wall).

4.4.10 Dynamic/Seismic Design

Refer to Division I-A and Lam and Martin (1986a; 1986b) for guidance regarding the design of footings subjected to dynamic and seismic loads.

4.4.11 Structural Design

4.4.11.1 Loads and Reactions

4.4.11.1.1 Action of Loads and R

Footings shall be considered as u downward forces, due to the superimp by an upward pressure exerted by the als and distributed over the area of th mined by the eccentricity of the resulta forces. Where piles are used under fo reaction of the foundation shall be co of concentrated loads applied at the pil being assumed to carry the computed footing load.

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2. **Designed end slope is not meeting the AASHTO stability requirement, therefore north approach end slope is changed to 3H to 1V from 1.57 H to 1 V and south approach end slope is changed to 3H to 1V from 2H to 1V.**

3. Both north and south approach end slopes are stabilized with rock fill – class 7 material where abutment footing are (see slope/w profile for details). Rock fill – 30 inchers diameter used behind the abutment. Then elevation of rock fill is same as 100 – year flood elevation.
4. 100-year flood elevation (402.67 ft) is used for the water table.
5. Reference borings for north approach end slope are FB-79 through 81, R-14 and R-15.
6. Reference borings for south approach end slope are FB-66, FB-67 and R-12

References/Inputs:
Boring logs
Strength parameters
AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets
Relevant Lab test results from boring R-14 and R-15
NAVFAC correlations of standard penetration resistance

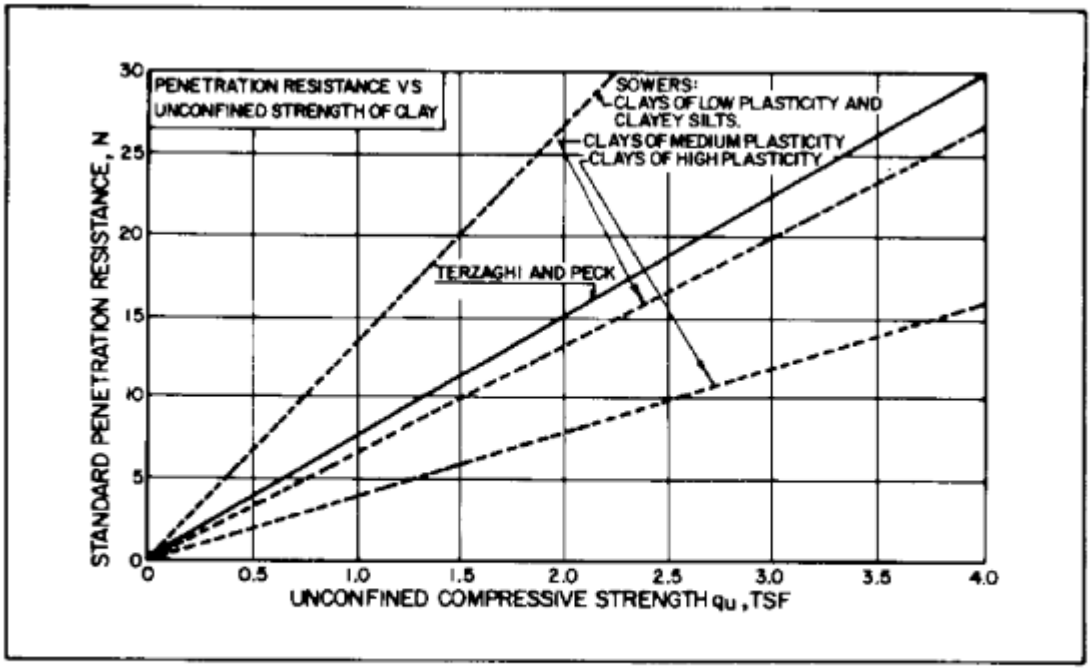

FIGURE 4
Correlations of Standard Penetration Resistance

Correlations of friction angle with N values of cohesionless soils, after Bowles 1997

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Description	Relative Density, *Dr* (%)	Friction Angle, φ'(Deg.)	N Value
Very loose	Less than 15	25 - 28	< 4
Loose	15 - 60	29 - 32	4 - 10
Medium	60 - 75	33 - 35	10 - 30
Dense	75 - 90	36 - 40	30 - 50
Very dense	Over 90	41 - 45	Over 50

Correlations with N values of cohesionless soils, after Bowles, 1997.

Attachments: (List each attachment following the subject calculation)
Boring logs and strength parameters
AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets
Stratigraphy and strength parameters

Conclusions:

Results are in below table:

End slopes	South approach end slope		North approach end slope	
	Long term (Drained)	Short term (Undrained)	Long term (Drained)	Short term (Undrained)
3H:1V	1.5	1.8	1.5	1.7

Document Check:	Name	Signature	Date
Originator:	Pradip Adhikari	PA	04/21/2023
Checker:	Michael De Stigter	MJLD	04/26/2023
Backchecker:	Pradip Adhikari	PA	06/05/2023
Updater:	Pradip Adhikari	PA	06/05/2023
Verifier:	Michael De Stigter	MJLD	06/07/2023

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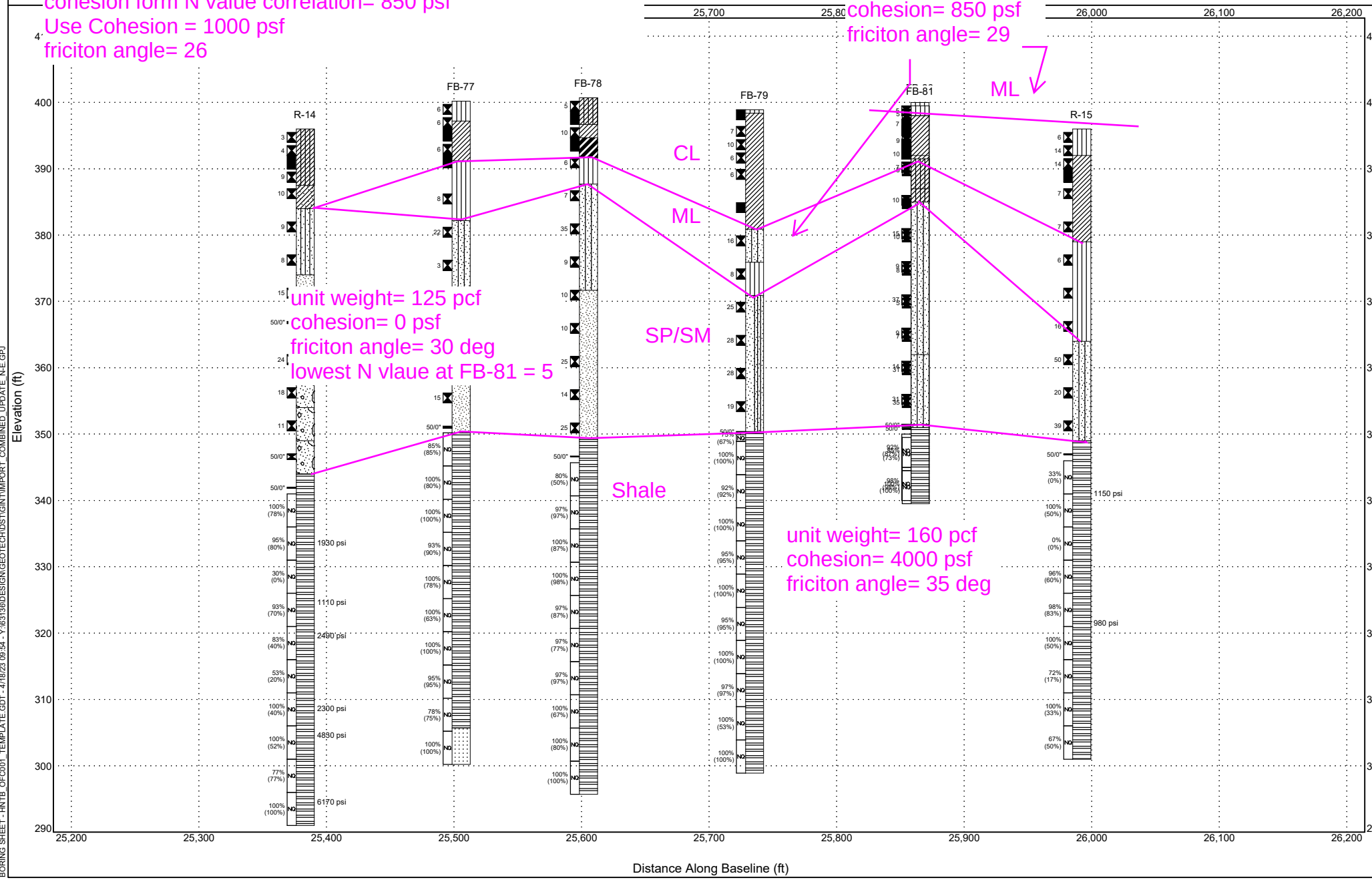
Su from UCS for CL = 1300 psf for R-14 and 2900 psf for R-15
ave. N value = 7
unit weight= 120 pcf
cohesion form N value correlation= 850 psf
Use Cohesion = 1000 psf
friciton angle= 26

ave. N value = 7
unit weight= 125 pcf
cohesion= 850 psf
friciton angle= 29

ML

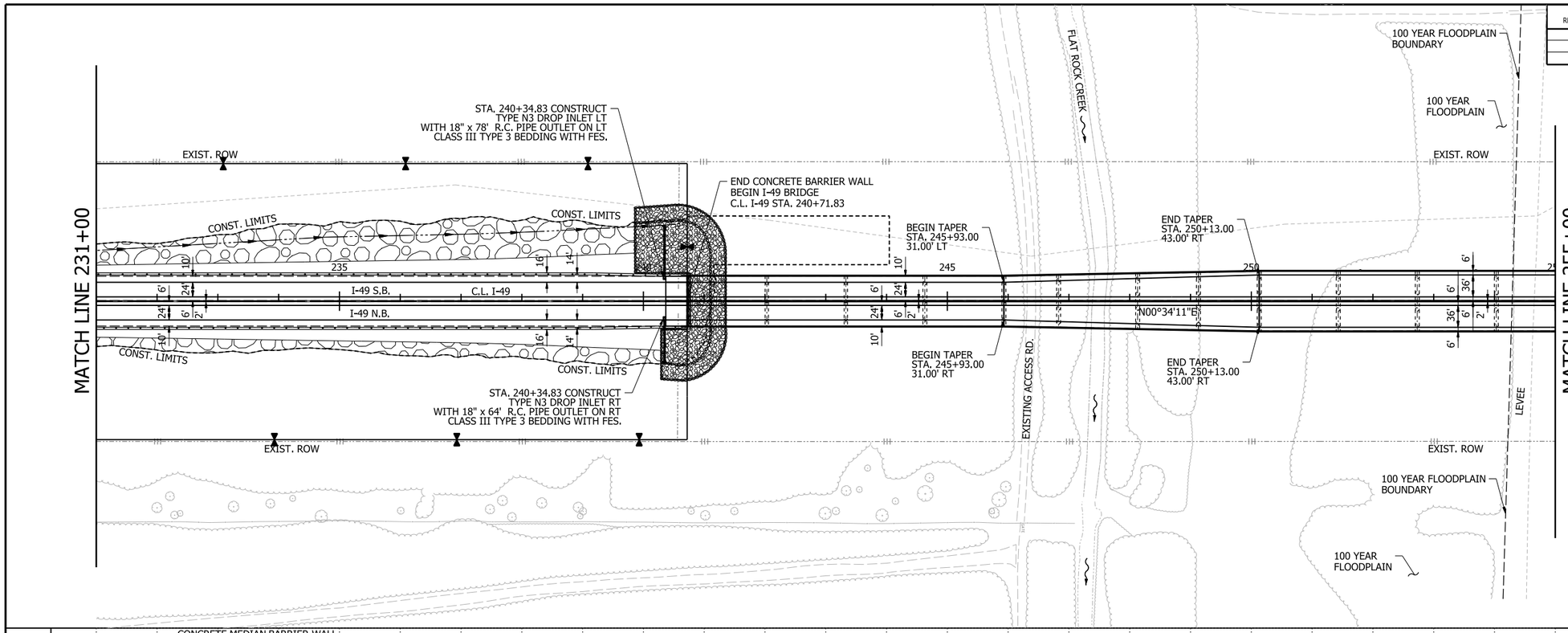
RALIZED SUBSURFACE STRATIGRAPHY



BORING SHEET - HNTB_OFC001_TEMPLATE.GDT - 4/18/23 09:54 - Y:\63136\DESIGN\GEOTECH\DST\GINT\IMPORT_COMBINED_UPDATE_N-E.GPJ

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	77	230
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



HORIZ. SCALE IN FEET: 1"=200'

VERT. SCALE IN FEET: 1"=40'

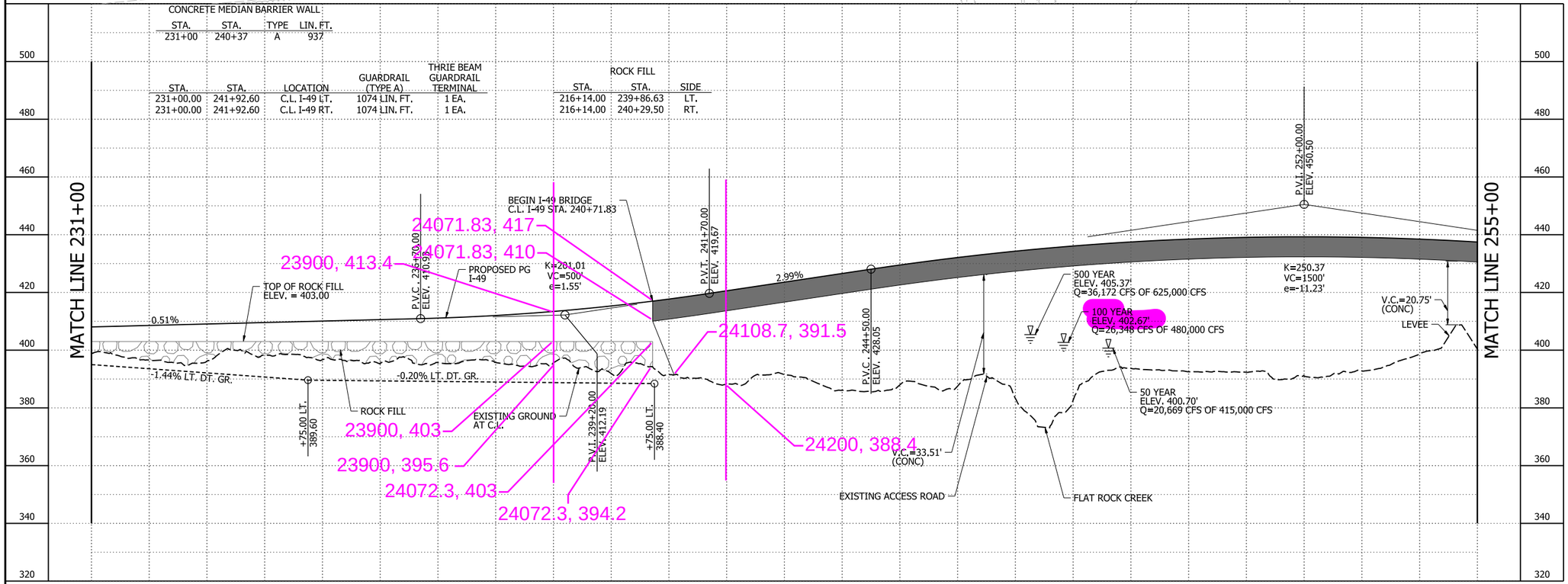
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
231+00	240+37	A	937

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL
231+00.00	241+92.60	C.L. I-49 LT.	1074 LIN. FT.	1 EA.
231+00.00	241+92.60	C.L. I-49 RT.	1074 LIN. FT.	1 EA.

ROCK FILL

STA.	STA.	SIDE
216+14.00	239+86.63	LT.
216+14.00	240+29.50	RT.



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- BRIDGE
- PAVEMENT REMOVAL

NOTES:

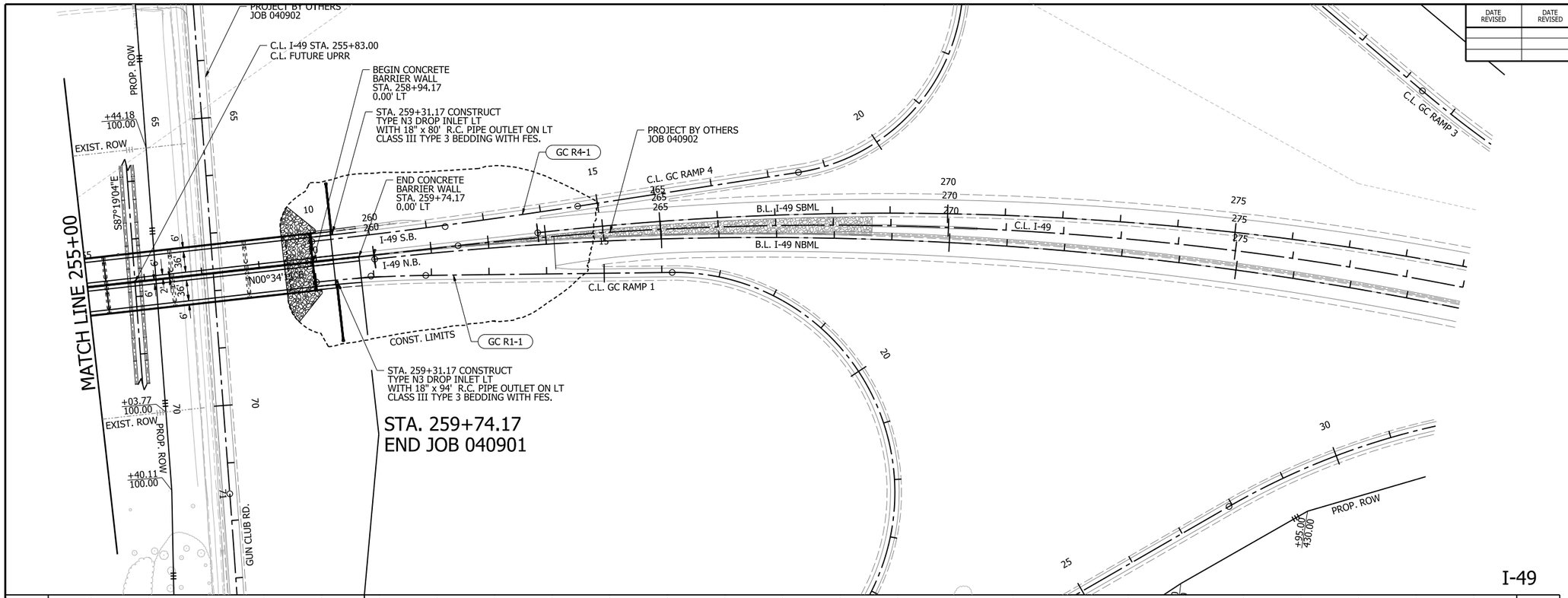
1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

I-49
PLAN AND PROFILE SHEETS

2/28/2023 10:02:15 AM
R040901_12_PP_007.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	78	230
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

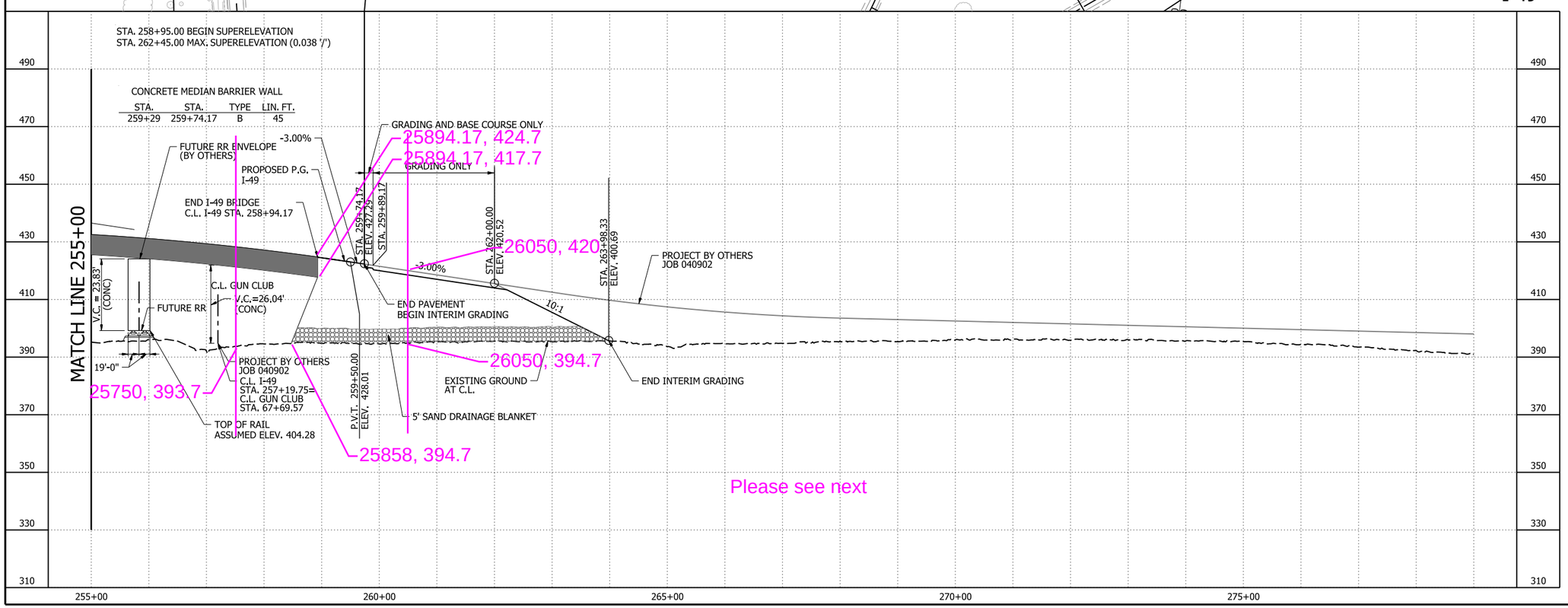
0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- BRIDGE
- PAVEMENT REMOVAL

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.



Please see next

I-49
PLAN AND PROFILE SHEETS

2/28/2023 11:28:54 AM
R040901_12_PP_008.dgn

ARKANSAS DEPARTMENT OF TRANSPORTATION

LORIE TUDOR, P.E. - DIRECTOR

PRELIMINARY DESIGN SCHEMATIC

I-49 PROJECT
CRAWFORD AND SEBASTIAN COUNTIES

I-49
FROM HIGHWAY 22 TO INTERSTATE 40
JOB NO. 040748

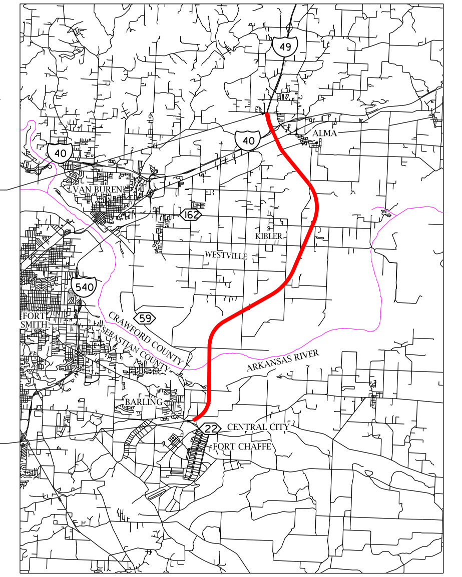
PROJECT LENGTH - 14.4 MILES

ROADWAY TYPE	DESIGN SPEED
MAIN LANES	70 MPH
SYSTEM RAMPS	50 MPH*
SERVICE RAMPS (DIAGONAL)	50 MPH
SERVICE RAMPS (LOOP)	30 MPH
CROSS STREETS	40 MPH
FRONTAGE ROADS	40 MPH
LOCAL SERVICE ROADS	30 MPH

*POTENTIAL DESIGN EXCEPTION FOR REDUCED HORIZONTAL STOPPING SIGHT DISTANCE ON BRIDGES.

I-49 PROJECT
HIGHWAY CLASSIFICATION
URBAN FREEWAY

CRAWFORD AND SEBASTIAN COUNTY
NOT TO SCALE



PRELIMINARY SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.

NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

DATE APPROVED

DATE SUBMITTED

DATE REVISED

0 100 200
HORIZONTAL

0 20 40
VERTICAL

DATE: JANUARY 2023
PREPARED BY HNTB
UNDER THE SUPERVISION OF:
JOSIAH BELVEAL, P.E.

LICENSE NO. 19907

TABLE OF CONTENTS:

	ROLL
PLAN/PROFILE	1-8
PROFILES	9-10

ROLL 2 OF 10

HNTB Corporation
The HNTB Companies
Engineers Architects Planners

LEGEND

- Main Lanes
- System Ramps
- Cross Streets
- Frontage Roads
- Service Ramps (Diagonal/Loop)
- Steel or Concrete Bridge Structure
- Steel Bridge Structure
- Existing Roadway to Remain
- 100 Year Floodplain
- Bridge Substructure
- Proposed Storm Drain
- Sidewalks
- Driveway / Local Service Roads
- Cemetery
- Existing STATE ROW
- Proposed ROW
- Proposed COA
- Temporary Construction Easement
- Road Shoulder
- Proposed Construction Limits Cut
- Proposed Construction Limits Fill
- Proposed Centerline / Baseline
- Proposed Retaining Wall
- Concrete Barrier
- Guardrail
- Property Line
- Pavement Removal
- Gas Well
- Gas Line
- Wire Rope Safety Fence

ARKANSAS DEPARTMENT OF TRANSPORTATION

LORIE TUDOR, P.E. - DIRECTOR

PRELIMINARY DESIGN SCHEMATIC

I-49 PROJECT
CRAWFORD AND SEBASTIAN COUNTIES

I-49
FROM HIGHWAY 22 TO INTERSTATE 40
JOB NO. 040748

PROJECT LENGTH - 14.4 MILES

I-49 PROJECT
HIGHWAY CLASSIFICATION
URBAN FREEWAY

PRELIMINARY SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.

NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

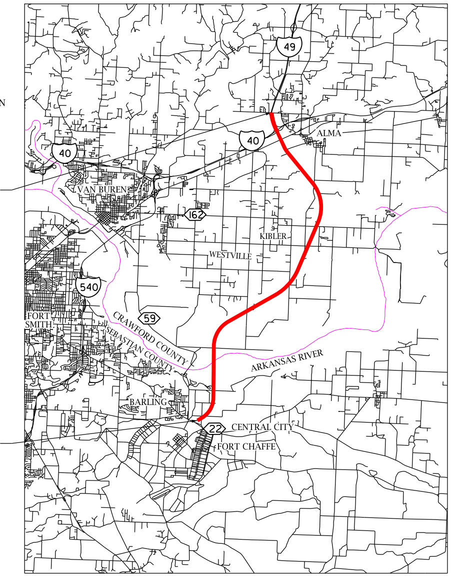
DATE: JANUARY 2023
PREPARED BY HNTB
UNDER THE SUPERVISION OF:
JOSIAH BELVEAL, P.E.

LICENSE NO. 19907

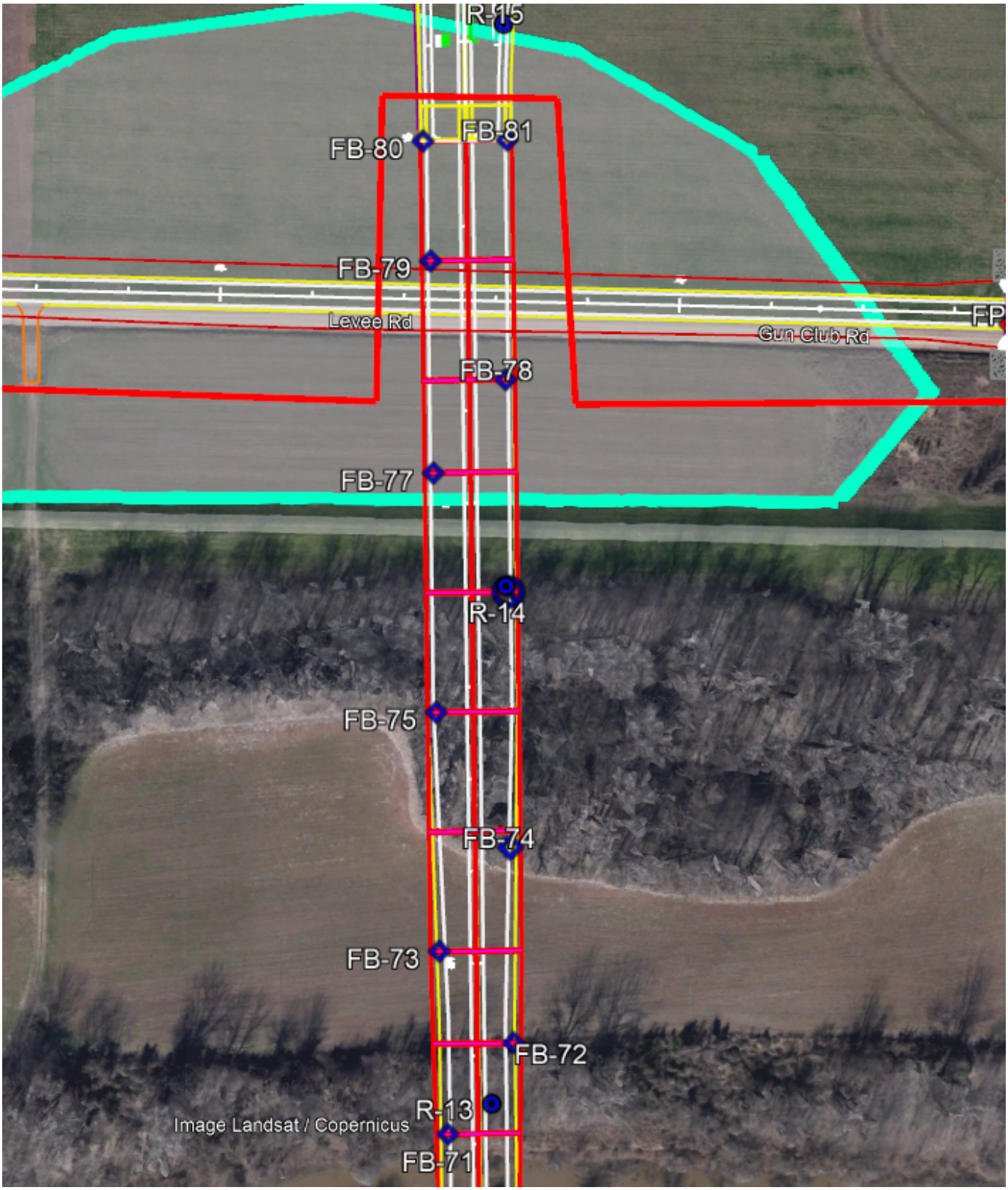
TABLE OF CONTENTS: ROLL
PLAN/PROFILE 1-8
PROFILES 9-10

ROLL 2 OF 10

HNTB Corporation
The HNTB Companies
Engineers Architects Planners



Used Borings FB-79 through FB-81, R-14 and R-15



Used Boring FB-66, FB-67 and R-12
FB-64 , FB-65 are not drilled/not available

AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9

FIGURE 4.4.8.2.2A Relationship Between Elastic Modulus and Uniaxial Compressive Strength fo Modified after Deere (1968)

or near a slope by limiting equilibrium methods of analysis which employ the Modified Bishop, simplified Janbu, Spenser or other generally accepted methods of slope stability analysis. Where soil and rock parameters and ground water levels are based on in-situ and/or laboratory tests, the minimum factor of safety shall be 1.3 (or 1.5 where abutments are supported above a slope). Otherwise, the minimum factor of safety shall be 1.5 (or 1.8 where abutments are supported above a retaining wall).

4.4.10 Dynamic/Seismic Design

Refer to Division I-A and Lam and Martin (1986a; 1986b) for guidance regarding the design of footings subjected to dynamic and seismic loads.

4.4.11 Structural Design

4.4.11.1 Loads and Reactions

4.4.11.1.1 Action of Loads and R

Footings shall be considered as u downward forces, due to the superimp by an upward pressure exerted by the als and distributed over the area of th mined by the eccentricity of the resulta forces. Where piles are used under fo reaction of the foundation shall be co of concentrated loads applied at the pil being assumed to carry the computed footing load.

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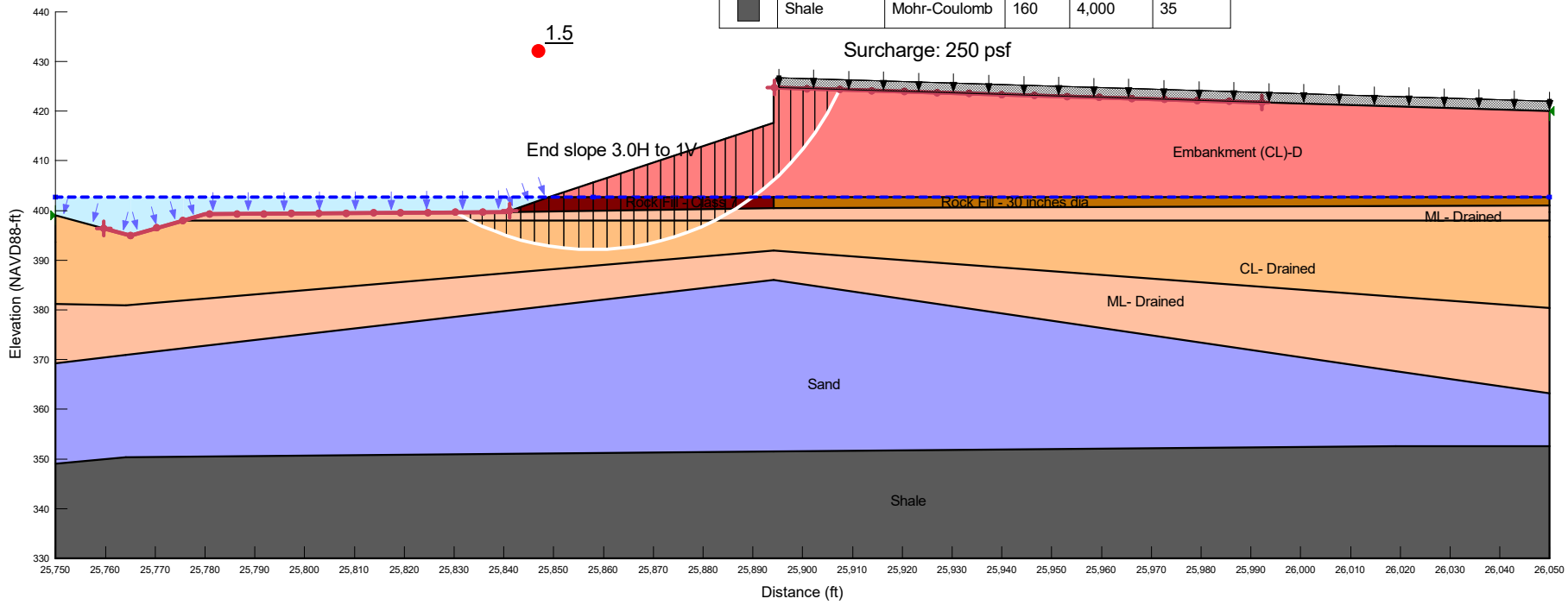
SLOPE/W North Approach End slope

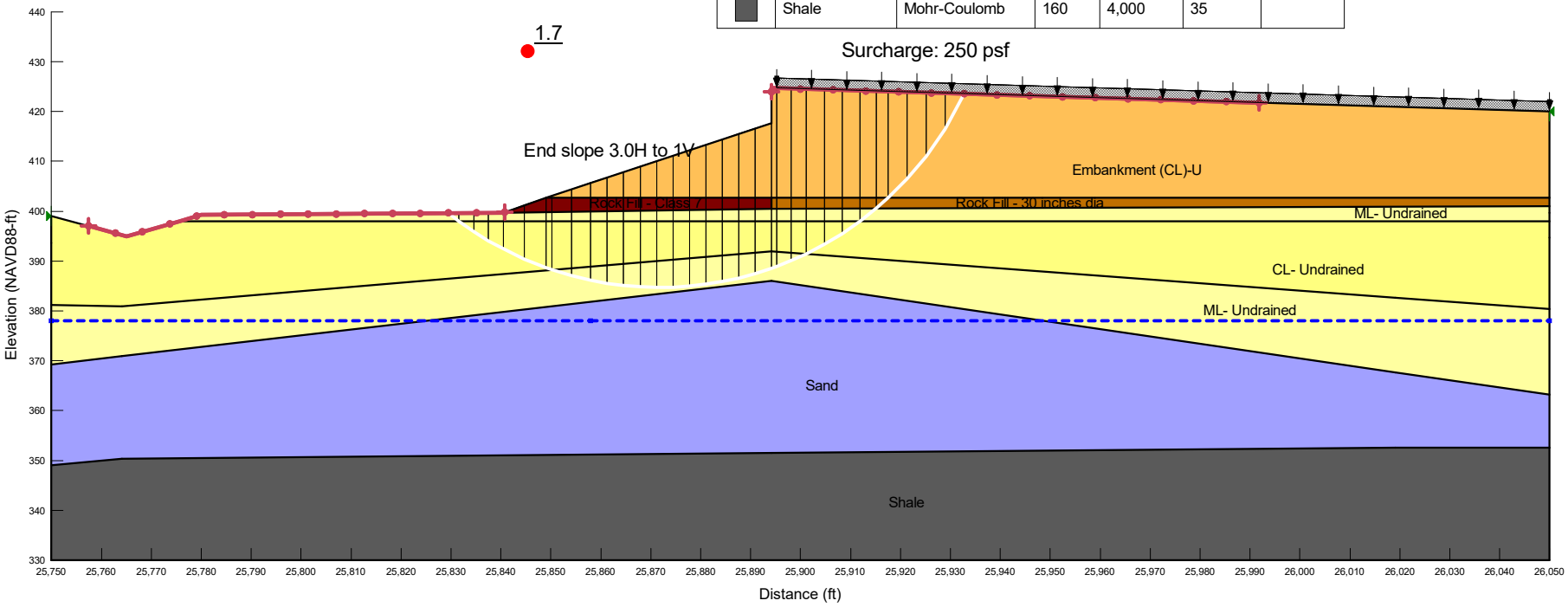
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	ML -Drained	Mohr-Coulomb	125	0	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Rock Fill - class 7	Mohr-Coulomb	135	0	40
	Sand	Mohr-Coulomb	125	0	30
	Shale	Mohr-Coulomb	160	4,000	35



	Project: I-49 Crawford County		
	Analysis Description: Bridge 16 North End Slopes — **Long Term**		
	Designer/Author: **AWW/PA**	Station: 258+94.17	
Project Number: 63136	Date: 05/30/2023	File Name: 16_North Approach End slope_20230530.gsz	

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 16SB-NB Final\16_North Approach End slope_20230530.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL - Undrained	Undrained (Phi=0)	120			1,000
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	ML - Undrained	Undrained (Phi=0)	125			850
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Rock Fill - class 7	Mohr-Coulomb	135	0	40	
	Sand	Mohr-Coulomb	125	0	30	
	Shale	Mohr-Coulomb	160	4,000	35	



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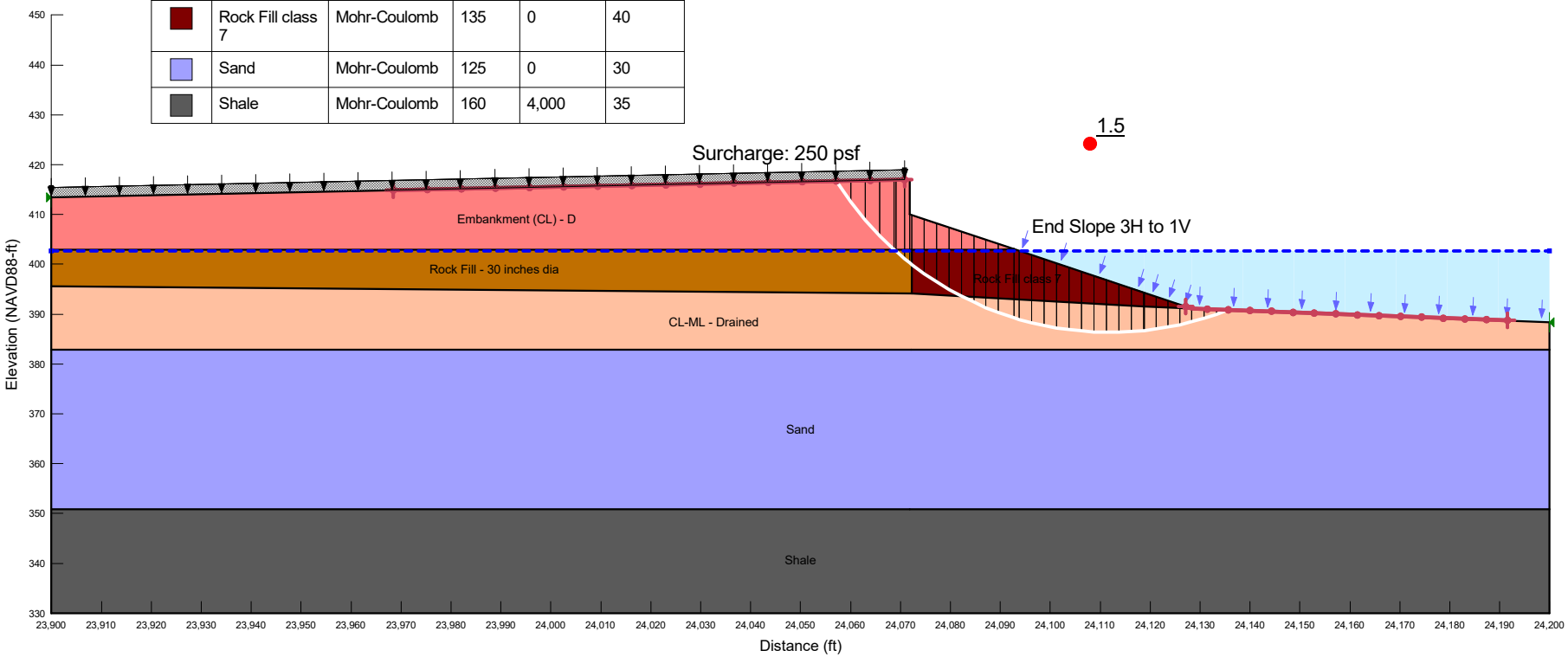
	Analysis Description: Bridge 16 North End Slopes — Short Term		
	Designer/Author: AWW/PA	Station: 258+94.17	
Project Number: 63136	Date: 05/30/2023	File Name: 16_North Approach End slope_20230530.gsz	

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 16SB-NB Final\16_North Approach End slope_20230530.gsz

SLOPE/W South Approach End slope

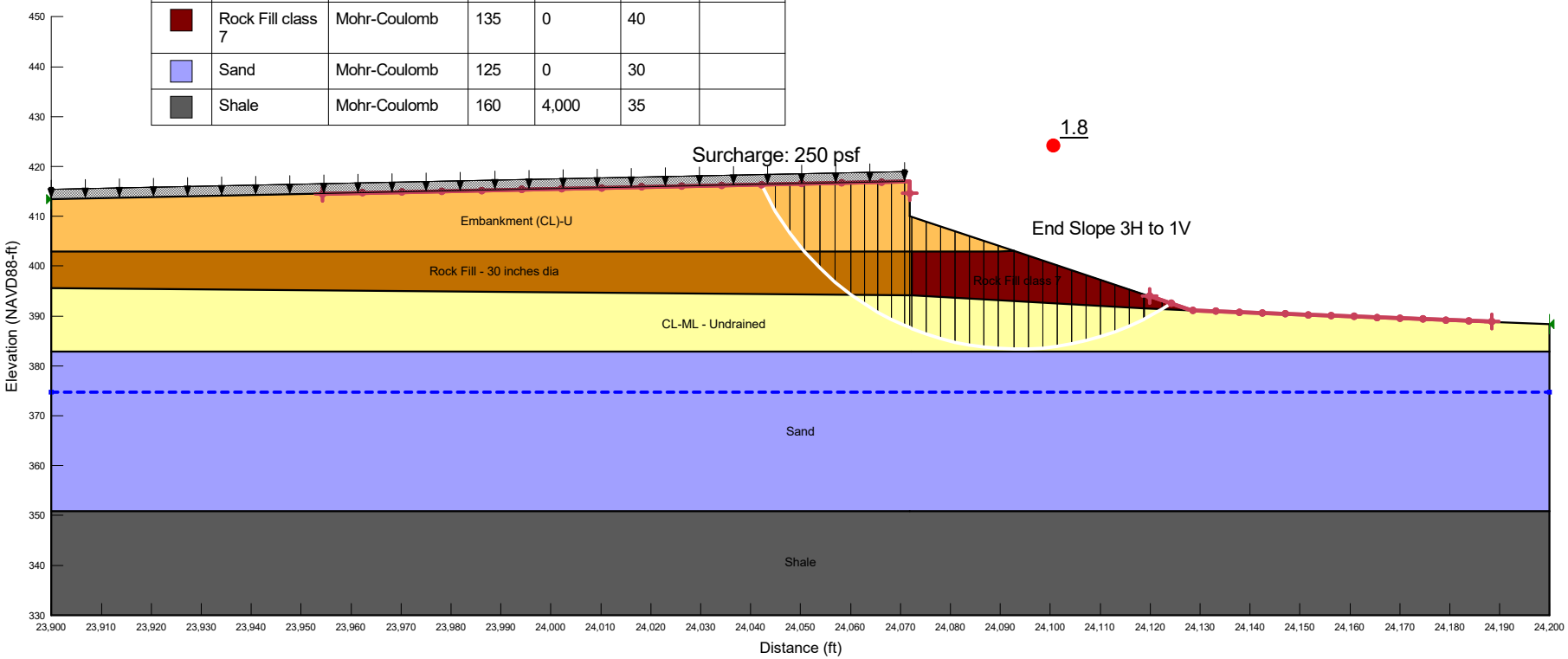
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL-ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Rock Fill class 7	Mohr-Coulomb	135	0	40
	Sand	Mohr-Coulomb	125	0	30
	Shale	Mohr-Coulomb	160	4,000	35



ARDOT HNTB	Project: I-49 Crawford County		
	Analysis Description: Bridge 16 South End Slopes — Long Term		
	Designer/Author: AWW/PA	Station: 240+71.83	
Project Number: 63136	Date: 05/30/2023	File Name: 16_South Approach End slope_20230530.gsz	

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 16SB-NB Final\16_South Approach End slope_20230530.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL-ML - Undrained	Undrained (Phi=0)	120			850
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Rock Fill class 7	Mohr-Coulomb	135	0	40	
	Sand	Mohr-Coulomb	125	0	30	
	Shale	Mohr-Coulomb	160	4,000	35	



	Project I-49 Crawford County	
	Analysis Description Bridge 16 South End Slopes Short Term	
	Designer/Author **AWW/PA**	*Station* 240+71.83
Project Number 63136	*Date* 05/30/2023	*File Name* 16_South Approach End slope_20230530.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 16SB-NB Final\16_South Approach End slope_20230530.gsz

Borings for North Approach End slope

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55

LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 398.9	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt (ML)						
			Firm brown silty clay (CL)	7					
5			- firm to stiff at 4 to 6 ft	10					
			- soft below 6 ft	6					
10				6					
15			EL 380.9						
20			Medium dense tan silty fine sand (SM)	16					
25			Loose reddish brown fine sandy silt (ML) EL 370.9	8					
30			Medium dense tan fine to medium sand, slightly silt (SM-SP)	25					
35				28					
40				28					
				19					

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			EL 350.4						
50			Moderately hard dark gray shale, horizontal bedding					75	67
								100	100
55								92	92
60								100	100
65								95	95
70								100	100
75								95	95
80								100	100
85			- with very close fine-grained sandstone partings below 85 ft					97	97

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-79

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.362772°N, -94.281032°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- coal layer at 91.6 to 93 ft - close coal seams at 93 to 94 ft					100	53
95								100	100
100			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by IJM/JKB.						
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 100.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 20 ft

DATE: 2/24/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

21-071

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 400.0	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt (ML)	5					
			Firm brown silty clay (CL)	7					
5			- stiff below 3.5 ft						
			EL 392						
			Firm brown clayey silt, sandy (CL-ML)	7					
10									
			EL 387						
15			Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)	10					
20			- with fewer fine sandy silt seams and layers below 18 ft - medium dense at 18 to 23 ft	15					
25			- loose at 23 to 28 ft	9					
30				37					
35			- loose below 33 ft	9					
40			Medium dense tan fine to medium sand, slightly silty (SM-SP)	14					
			- dense below 43 ft	31					

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			EL 351.5						
			Moderately hard dark gray shale, horizontal bedding	50/4"					
50								92	87
55								98	98
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 399.5	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt, sandy (ML)	5					
			Firm brown silty clay (CL)						
5				9					
			- firm to stiff below 6 ft EL 391.5	10					
			Soft reddish brown clayey silt (CML-ML)	5					
10									
			EL 385						
15			Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)						
20				10					
			- loose at 23 to 38 ft - with fewer fine sandy silt seams and layers below 23 ft						
25				8					
30				5					
35				7					
			- dense below 38 ft						
40				31					
				35					

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			EL 385						
			Moderately hard dark gray shale, horizontal bedding	50/3"					
50								85	73
55								100	100
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.361807° N -94.280751° E

SURF. EL: 397.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very soft reddish brown silty clay (CL)	3					
			- very soft to soft at 2 to 4 ft	4					
5			- firm below 4 ft		101				
				9					
10			Firm to stiff reddish tan fine sandy clay (CL)	10					
15			Loose reddish tan fine sandy silt (ML)	9		-NON-PLASTIC-			
20				8					
			EL 375.6						
25			Medium dense reddish tan fine to medium sand (SP)	15			2		
30			- dense from 28 to 32 ft	50/4"					
35			- medium dense below 32 ft	24					
			Medium dense tan fine to coarse sand w/occasional fine to coarse gravel (SP)	18					

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55

LOCATION: 35.361807° N -94.280751° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Medium dense tan fine sand (SP)	11			2		
45			- very dense below 47 ft						
			Dense to very dense tan fine to coarse sand w/some fine to coarse gravel (SP)	50/10"					
50			EL 345.6						
			Moderately hard dark gray shale w/occasional sandstone partings, horizontal bedding	50/2"					
55								100	78
60					157	● q_u= 1930 psi, TUW= 162 pcf		95	80
65			- with numerous fractures, little recovery, core barrel plugged due to softer, more weathered shale layers from 65 to 70 ft					30	0
70					152	● q_u= 1110 psi, TUW= 158 pcf		93	70
75			- with partially healed high angle fractures at 74 to 74.3 ft and 77 to 77.9 ft		155	● q_u= 2490 psi, TUW= 161 pcf		83	40

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-14

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 23 ft /Wash 55 ft /NQ Core - CME-55 LOCATION: 35.361807° N -94.280751° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with some coal layers washing away from 80 to 82.5 ft					53	20
85			- coal layer at 87.3 to 88.5 ft		156	q_u= 2300 psi, TUW= 162 pcf		100	40
90			- with more fine-grained sandstone inclusions below 92 ft		162	q_u= 4830 psi, TUW= 164 pcf		100	52
95			Moderately hard to hard dark gray shale w/very close, very thin, interbedded fine-grained sandstone partings, horizontal bedding - with more frequent sandstone partings below 97 ft					77	77
100					163	q_u= 6170 psi, TUW= 164 pcf		100	100
105			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
110									
115									

COMPLETION DEPTH: 105.0 ft
DATE: 3-2-22

DEPTH TO WATER IN BORING: 22.1 ft

DATE: 2/23/2022

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

SURF. EL: 399.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown silt (ML), dry	6					
			- medium dense below 2 ft	14					
5			Stiff brown to reddish brown silty clay, slightly sandy (CL)	14			87		
			- firm with more silt below 6 ft		106				
10				7					
15				7					
			EL 382.6						
			Loose reddish brown silt (ML), moist						
20				6					
			- slightly sandy below 22 ft - very loose at 22 to 27 ft						
25				WOH					
			- medium dense below 27 ft						
30				16		-NON-PLASTIC-			
			EL 367.6						
			Dense to very dense reddish tan silty fine sand (SM) w/occasional fine-gravel						
35				50					
			- medium dense at 37 to 42 ft - with less silt below 37 ft						
				20			4		

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- dense below 42 ft						
45				39					
			EL 352.6						
			Moderately hard dark gray shale, flat bedded w/numerous multi-directional fractures and close coal seams	50/1"					
50								33	0
55						q_u= 1150 psi, TUW= 160 pcf		100	50
60			- core barrel blocked at 60 to 65 ft					0	0
65						TUW= 158 pcf		96	60
70						q_u= 980 psi, TUW= 161 pcf		98	83
75								100	50

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
						TUW= 153 pcf		72	17
85								100	33
90			- with very close coal seams below 90 ft			TUW= 159 pcf		67	50
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
100									
105									
110									
115									

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Borings for South Approach End slope

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55

LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 388.9	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft reddish brown silty clay (CL)	6					
			Loose reddish brown silt (ML)	6					
5			Soft reddish brown silty clay (CL) w/some silt seams EL 382.9						
			Loose reddish tan silty fine sand w/occasional clay seams (SM)	7					
10				10					
			Brown tan silty fine sand (SM) - medium dense below 12 ft Normal Water level 374.7	8					
15									
20				10					
25				12					
30			Medium dense tan fine to coarse sand w/some fine to coarse gravel (SP)	15					
35				22					
				EL 350.9					
40			Moderately hard dark gray shale, horizontal bedding - with occasional gray fine-grained sandstone partings below 40 ft	50/1"				75	47

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-7-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55 LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	90
50			- with some fractures and 100% water loss 52 ft					98	42
55								95	87
60									
			Low hardness black coal					67	0
65									
			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
70								100	100
75								98	98
80								100	100
85								100	100

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-7-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55

LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
95									
100									
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-67

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 45 ft /NQ 2 Core-CME-55 LOCATION: 35.358844°N, -94.280940°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 390.8	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Very loose to loose reddish tan fine sandy silt w/silty clay seams (ML)	4					
			- loose below 2 ft	7					
5			- with more fine sandy below 4 ft	6					
			EL 384.8						
			Medium dense tan silty fine sand (SM)	12					
			- loose below 8 ft	8					
10									
			EL 378.8						
			Loose reddish tan fine sandy silt (ML)	7					
15									
			EL 370.8						
20			Loose tan silty fine sand (SML) w/some silt seams	5					
			- very loose below 24 ft	2					
25									
30			- medium dense below 29 ft	11					
			Medium dense tan fine to medium sand w/fine to coarse gravel (SW)	25					

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 4-8-23

DEPTH TO WATER IN BORING: 13.5 ft

DATE: 4/7/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-17-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-67

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 45 ft /NQ 2 Core-CME-55 LOCATION: 35.358844°N, -94.280940°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- with coarse sand below 38 ft						
40		X		26					
			EL 348.8						
			Moderately hard dark gray shale, horizontal bedding						
45		X		50/1"					
								73	73
50			- with numerous fractures and occasional highly weathered seams and layers at 50 to 55 ft					100	53
55								100	82
60			- with highly weathered layer at 58.8 to 59 ft					100	92
65									
			Low hardness black coal					100	40
			Moderately hard dark gray shale, horizontal bedding						

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 4-8-23

DEPTH TO WATER IN BORING: 13.5 ft

DATE: 4/7/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-17-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-67

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 45 ft /NQ 2 Core-CME-55 LOCATION: 35.358844°N, -94.280940°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
75								100	100
80								98	98
85								100	100
90								100	100
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
100									

DRAFT

COMPLETION DEPTH: 95.0 ft
DATE: 4-8-23

DEPTH TO WATER IN BORING: 13.5 ft

DATE: 4/7/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-17-23

Project: I-49	Job No: 63136	Design Criteria Document:
Client: ArDOT	Discipline: Geotechnical	Calculation No: 1

Name or Description of Calculation: Bridge 16 side slopes

Note: Unique QF 06 to be created for each revision of a calculation.

Calc. Rev. No.	Description of Change (i.e., Original Issue or description of changes since last revision)	Confirmation required with other deliverables (Y/N)	List Deliverables for which confirmation is required (NA if none) Add additional rows as necessary	Confirmation Verified by Originator of Calc for each deliverable listed (Y/N)
0	Original			
1	Revision			

Calculation Objective:

Bridge 16 North and South approach side slopes stability.

Calculation Methodology/List of Assumptions:

1. Minimum factor of safety requirement for side slope is 1.3. (AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.)

FIGURE 4.4.8.2.2A Relationship Between Elastic Modulus and Uniaxial Compressive Strength fo Modified after Deere (1968)

or near a slope by limiting equilibrium methods of analysis which employ the Modified Bishop, simplified Janbu, Spenser or other generally accepted methods of slope stability analysis. Where soil and rock parameters and ground water levels are based on in-situ and/or laboratory tests, the minimum factor of safety shall be 1.3 (or 1.5 where abutments are supported above a slope). Otherwise, the minimum factor of safety shall be 1.5 (or 1.8 where abutments are supported above a retaining wall).

4.4.10 Dynamic/Seismic Design

Refer to Division I-A and Lam and Martin (1986a; 1986b) for guidance regarding the design of footings subjected to dynamic and seismic loads.

4.4.11 Structural Design

4.4.11.1 Loads and Reactions

4.4.11.1.1 Action of Loads and R

Footings shall be considered as u
downward forces, due to the superimp
by an upward pressure exerted by the
als and distributed over the area of th
mined by the eccentricity of the resulta
forces. Where piles are used under fo
reaction of the foundation shall be co
of concentrated loads applied at the pil
being assumed to carry the computed
footing load.

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2. 100-year flood elevation (402.67 ft) is used for the water table.
3. Reference boring for north approach side slope is FB-80 and FB-81.
4. Reference boring for south approach side slope is FB-66.

References/Inputs:
Boring logs

For Strength parameters, refer to "Calculation package_Bridge 16 end slopes 20230605 CLEAN" dated June 05, 2023.

AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets
NAVFAC correlation for undrained shear strength and N value.

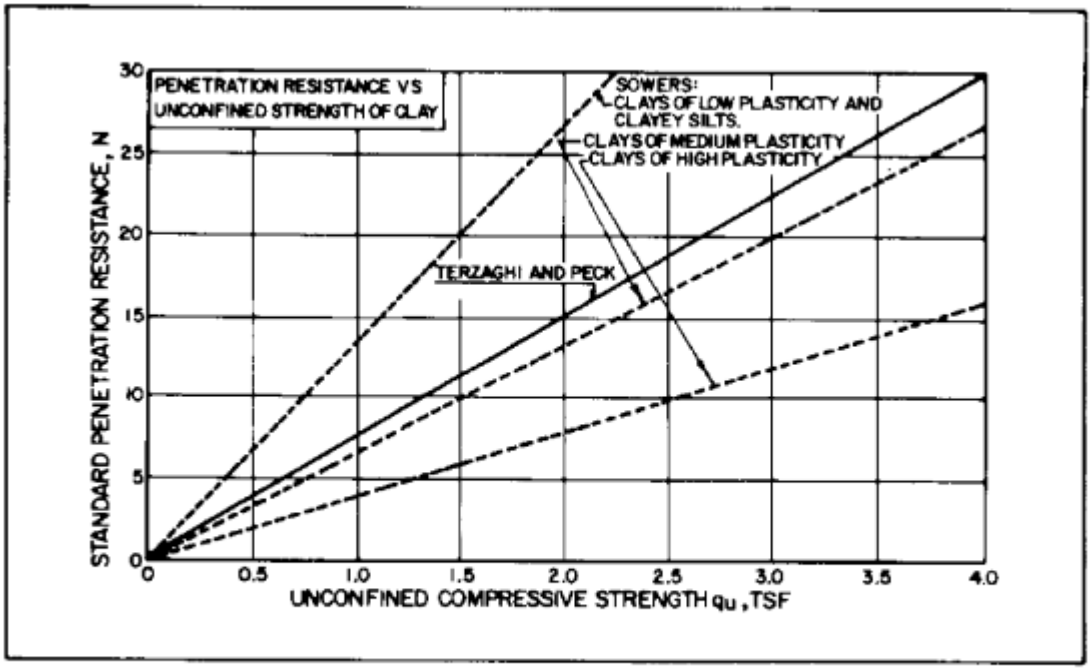

FIGURE 4
Correlations of Standard Penetration Resistance

Correlations of friction angle with N values of cohesionless soils, after Bowles, 1997.

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Description	Relative Density, *Dr* (%)	Friction Angle, φ'(Deg.)	N Value
Very loose	Less than 15	25 - 28	< 4
Loose	15 - 60	29 - 32	4 - 10
Medium	60 - 75	33 - 35	10 - 30
Dense	75 - 90	36 - 40	30 - 50
Very dense	Over 90	41 - 45	Over 50

Correlations with N values of cohesionless soils, after Bowles, 1997.

Attachments: (List each attachment following the subject calculation)
Boring logs for stratigraphy
AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9.
I-49 plan and profile sheets

Conclusions:

Results are in below table:

Side slopes	South approach side slope (station 240+30)		North approach side slope (station 260+00)	
	Long term (Drained)	Short term (Undrained)	Long term (Drained)	Short term (Undrained)
3H:1V (Left to right slip surface)	1.8	2.1	1.7	1.6
3H:1V (Right to left slip surface)	1.8	2.2	1.7	1.6

Document Check:	Name	Signature	Date
Originator:	Pradip Adhikari	PA	05/30/2023
Checker:	Michael DeStigter	MJLD	05/10/2023
Backchecker:	Pradip Adhikari	PA	06/05/2023
Updater:	Pradip Adhikari	PA	06/05/2023
Verifier:	Michael De Stigter	MJLD	06/07/2023

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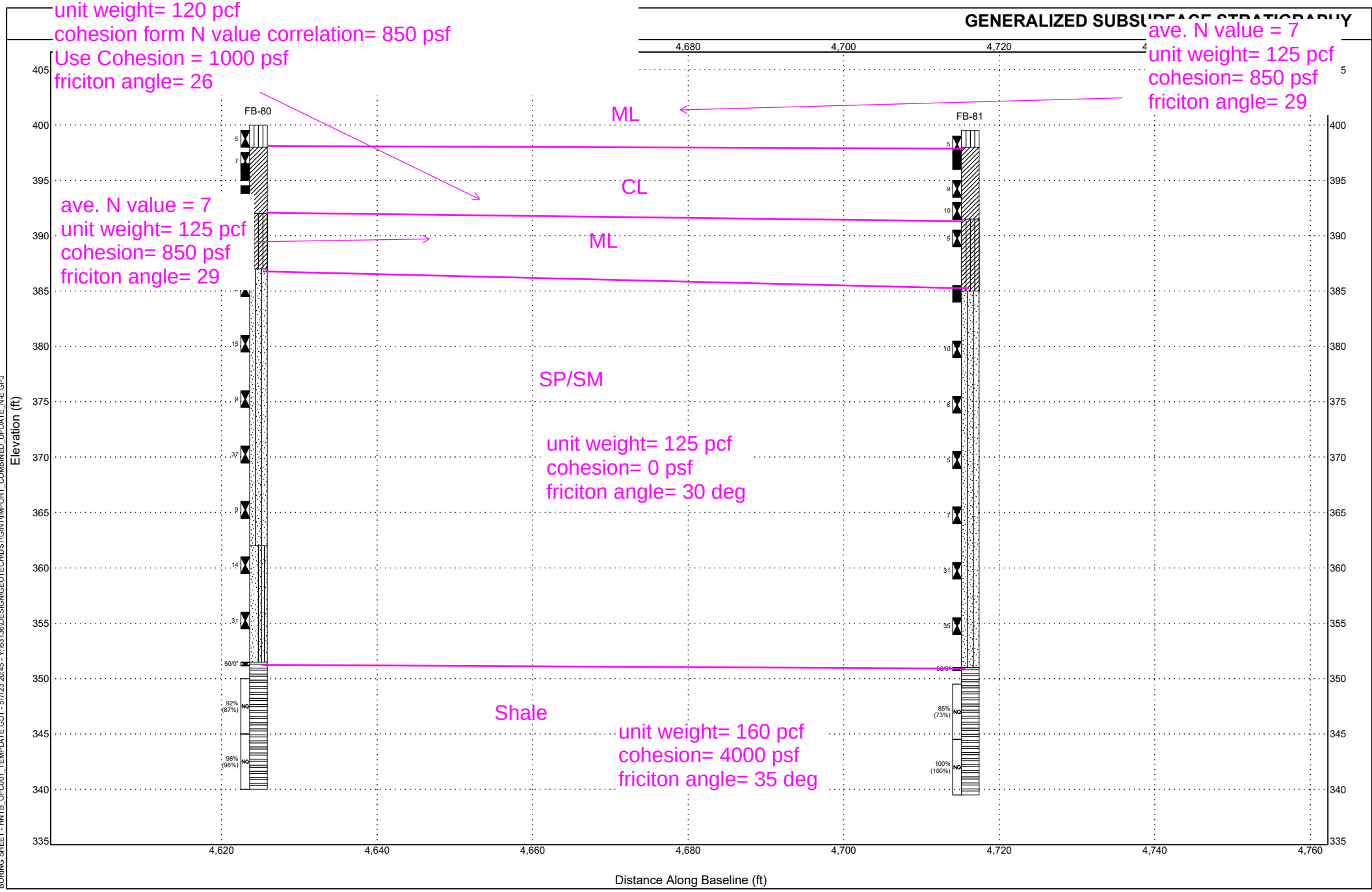
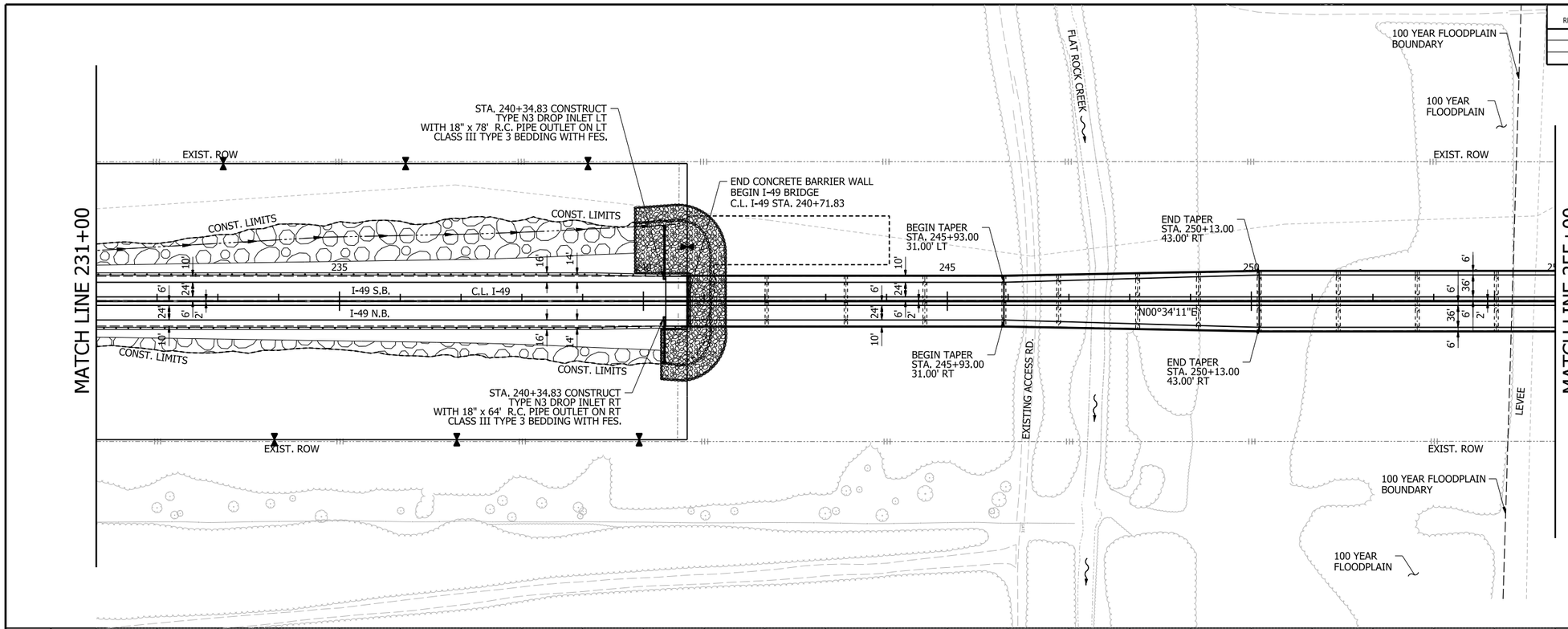
Su from UCS for CL = 1300 psf for R-14 and 2900 psf for R-15
ave. N value = 7
unit weight= 120 pcf
cohesion form N value correlation= 850 psf
Use Cohesion = 1000 psf
friciton angle= 26



BORING SHEET - HNTB_OFC001_TEMPLATE.GDT - 5/7/23 20:45 - Y:\63136\DESIGN\GEOTECH\DST\GINT\IMPORT_COMBINED_UPDATE_N-E.GPJ

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	77	230
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- BRIDGE
- PAVEMENT REMOVAL

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

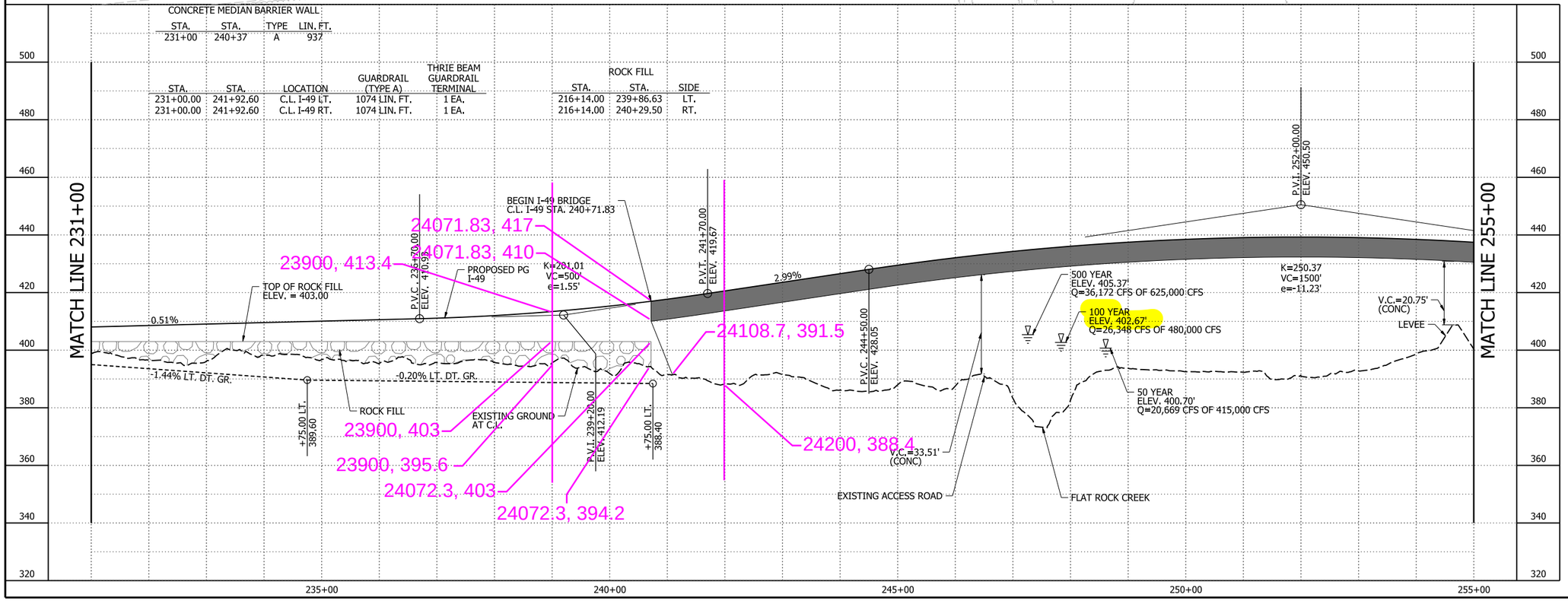
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
231+00	240+37	A	937

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL
231+00.00	241+92.60	C.L. I-49 LT.	1074 LIN. FT.	1 EA.
231+00.00	241+92.60	C.L. I-49 RT.	1074 LIN. FT.	1 EA.

ROCK FILL

STA.	STA.	SIDE
216+14.00	239+86.63	LT.
216+14.00	240+29.50	RT.



I-49
PLAN AND PROFILE SHEETS

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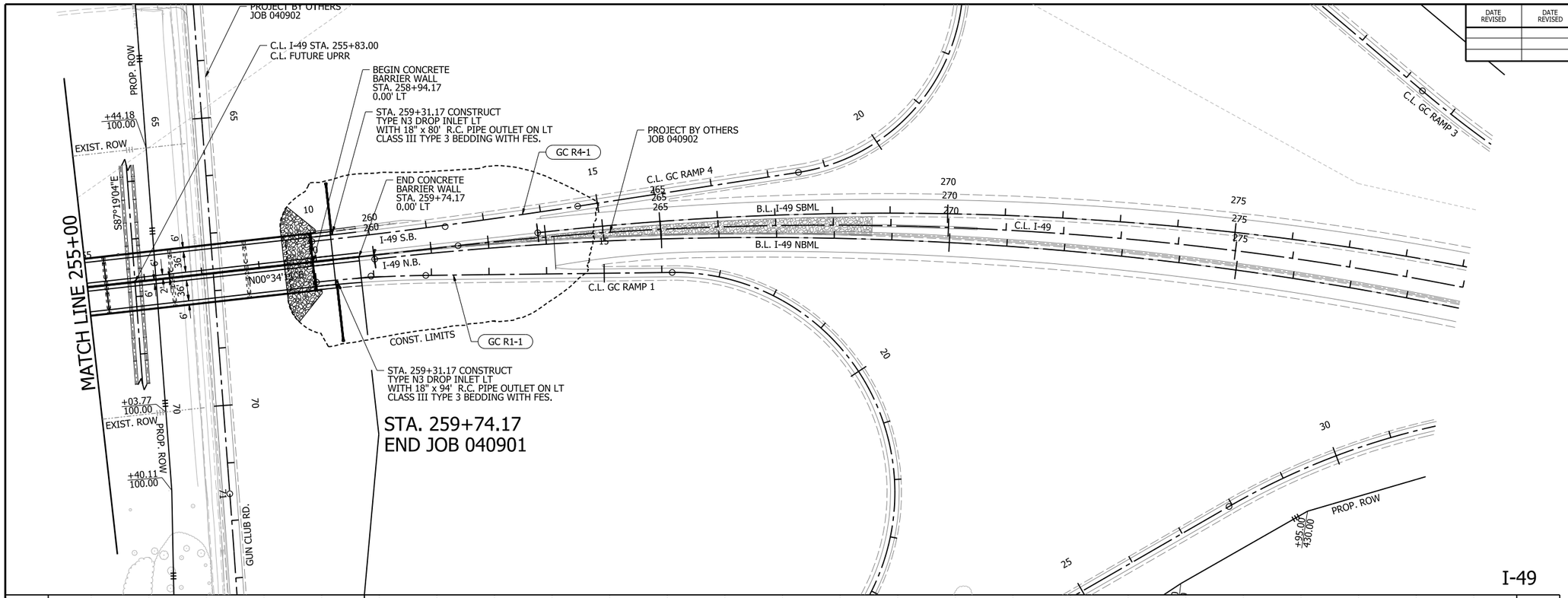
R040901_12_PP_007.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	78	230
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
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- RIPRAP
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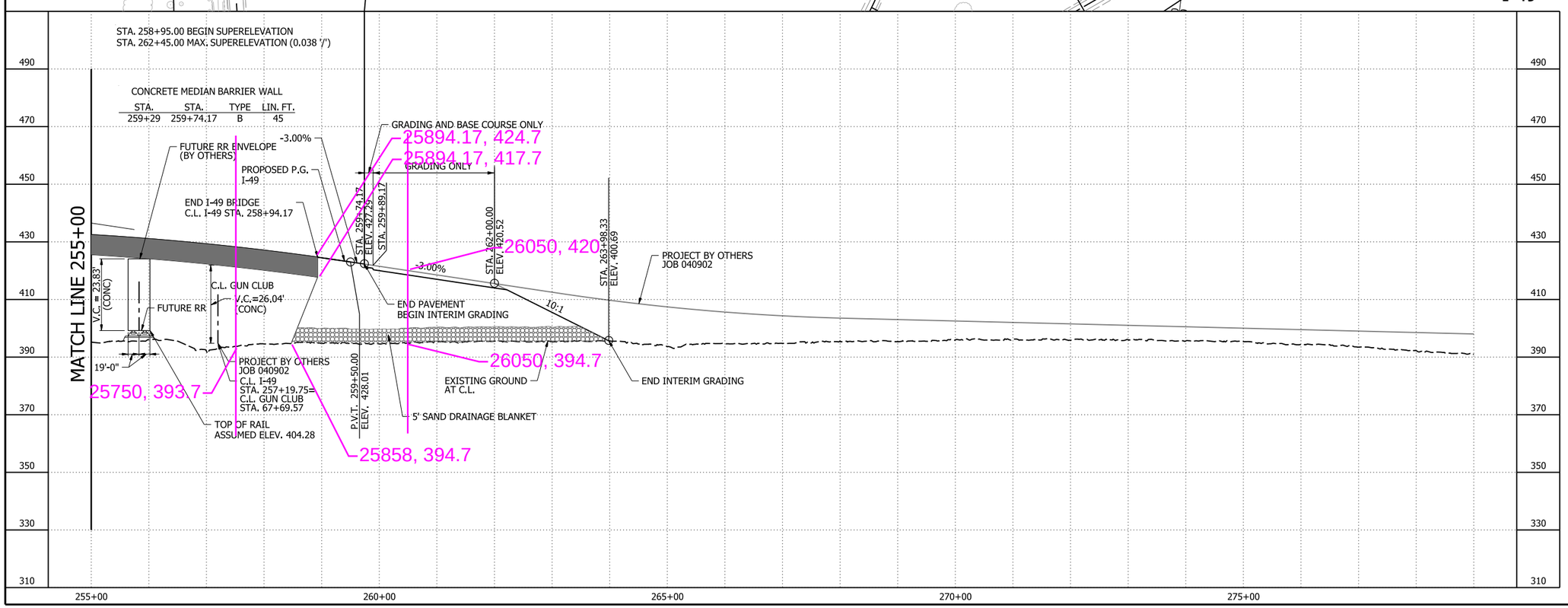
NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.



I-49
PLAN AND PROFILE SHEETS

2/28/2023 11:28:54 AM
R040901_12_PP_008.dgn

ARKANSAS DEPARTMENT OF TRANSPORTATION

LORIE TUDOR, P.E. - DIRECTOR

PRELIMINARY DESIGN SCHEMATIC

I-49 PROJECT
CRAWFORD AND SEBASTIAN COUNTIES

I-49
FROM HIGHWAY 22 TO INTERSTATE 40
JOB NO. 040748

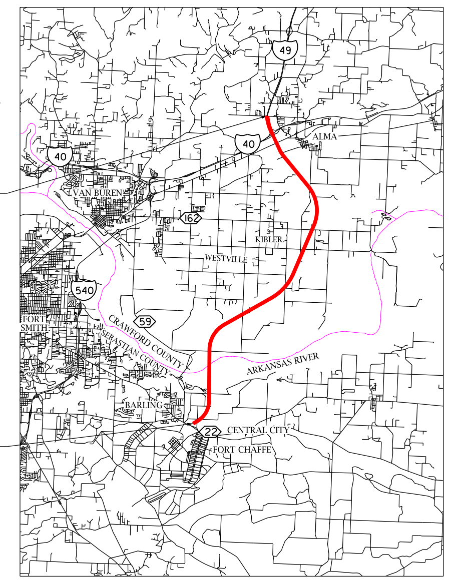
PROJECT LENGTH - 14.4 MILES

ROADWAY TYPE	DESIGN SPEED
MAIN LANES	70 MPH
SYSTEM RAMPS	50 MPH*
SERVICE RAMPS (DIAGONAL)	50 MPH
SERVICE RAMPS (LOOP)	30 MPH
CROSS STREETS	40 MPH
FRONTAGE ROADS	40 MPH
LOCAL SERVICE ROADS	30 MPH

*POTENTIAL DESIGN EXCEPTION FOR REDUCED HORIZONTAL STOPPING SIGHT DISTANCE ON BRIDGES.

I-49 PROJECT
HIGHWAY CLASSIFICATION
URBAN FREEWAY

CRAWFORD AND SEBASTIAN COUNTY
NOT TO SCALE



PRELIMINARY SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.

NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

DATE APPROVED

DATE SUBMITTED

DATE REVISED

0 100 200
HORIZONTAL

0 20 40
VERTICAL

DATE: JANUARY 2023
PREPARED BY HNTB
UNDER THE SUPERVISION OF:
JOSIAH BELVEAL, P.E.

LICENSE NO. 19907

TABLE OF CONTENTS:

	ROLL
PLAN/PROFILE	1-8
PROFILES	9-10

ROLL 2 OF 10

HNTB Corporation
The HNTB Companies
Engineers Architects Planners

ARDOT ARKANSAS DEPARTMENT OF TRANSPORTATION

LEGEND

- Main Lanes
- System Ramps
- Cross Streets
- Frontage Roads
- Service Ramps (Diagonal/Loop)
- Steel or Concrete Bridge Structure
- Steel Bridge Structure
- Existing Roadway to Remain
- 100 Year Floodplain
- Bridge Substructure
- Proposed Storm Drain
- Sidewalks
- Driveway / Local Service Roads
- Cemetery
- Existing STATE ROW
- Proposed ROW
- Proposed COA
- Temporary Construction Easement
- Road Shoulder
- Proposed Construction Limits Cut
- Proposed Construction Limits Fill
- Proposed Centerline / Baseline
- Proposed Retaining Wall
- Concrete Barrier
- Guardrail
- Property Line
- Pavement Removal
- Gas Well
- Gas Line
- Wire Rope Safety Fence

ARKANSAS DEPARTMENT OF TRANSPORTATION

LORIE TUDOR, P.E. - DIRECTOR

PRELIMINARY DESIGN SCHEMATIC

I-49 PROJECT
CRAWFORD AND SEBASTIAN COUNTIES

I-49
FROM HIGHWAY 22 TO INTERSTATE 40
JOB NO. 040748

PROJECT LENGTH - 14.4 MILES

I-49 PROJECT
HIGHWAY CLASSIFICATION
URBAN FREEWAY

PRELIMINARY SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW.

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TABLE OF CONTENTS:
PLAN/PROFILE 1-8
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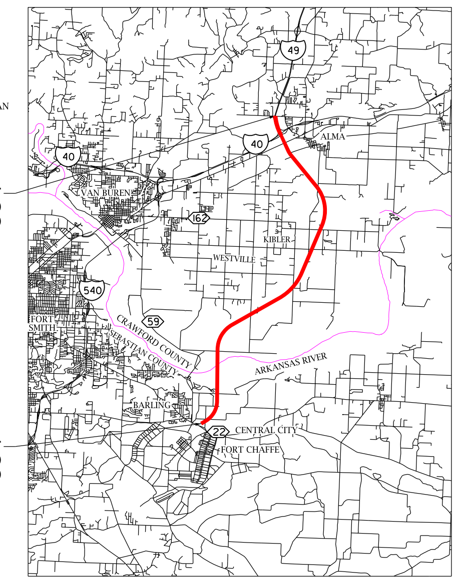
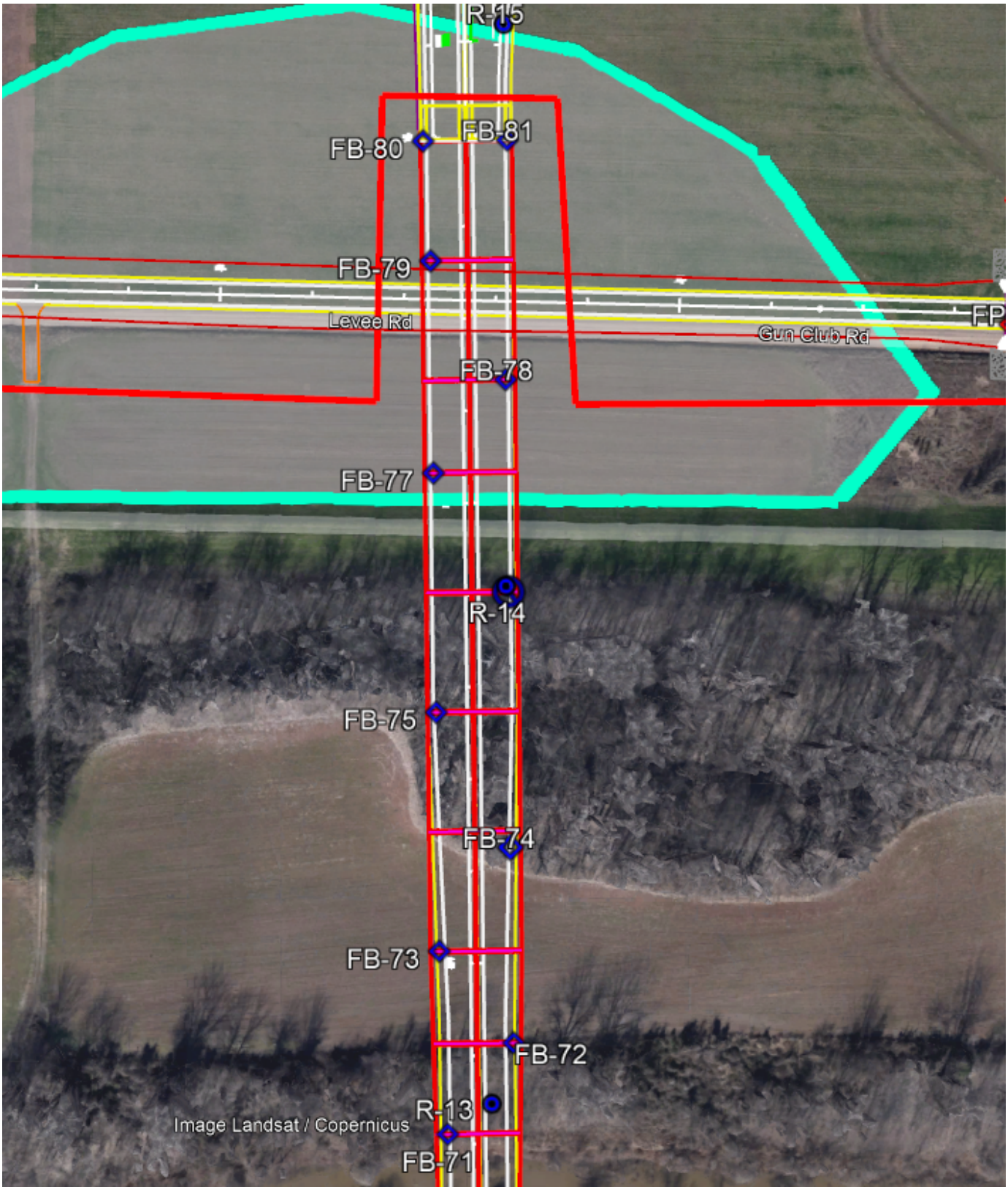
ROLL 2 OF 10



Used Borings FB-79 through FB-81, R-14 and R-15



Used Boring FB-66, FB-67 and R-12
FB-64 , FB-65 are not drilled/not available

AASHTO Standard Specifications for Highway Bridges17th edition, Section 4.4.9

FIGURE 4.4.8.2.2A Relationship Between Elastic Modulus and Uniaxial Compressive Strength fo Modified after Deere (1968)

or near a slope by limiting equilibrium methods of analysis which employ the Modified Bishop, simplified Janbu, Spenser or other generally accepted methods of slope stability analysis. Where soil and rock parameters and ground water levels are based on in-situ and/or laboratory tests, the minimum factor of safety shall be 1.3 (or 1.5 where abutments are supported above a slope). Otherwise, the minimum factor of safety shall be 1.5 (or 1.8 where abutments are supported above a retaining wall).

4.4.10 Dynamic/Seismic Design

Refer to Division I-A and Lam and Martin (1986a; 1986b) for guidance regarding the design of footings subjected to dynamic and seismic loads.

4.4.11 Structural Design

4.4.11.1 Loads and Reactions

4.4.11.1.1 Action of Loads and R

Footings shall be considered as u downward forces, due to the superimp by an upward pressure exerted by the als and distributed over the area of th mined by the eccentricity of the resulta forces. Where piles are used under fo reaction of the foundation shall be co of concentrated loads applied at the pil being assumed to carry the computed footing load.

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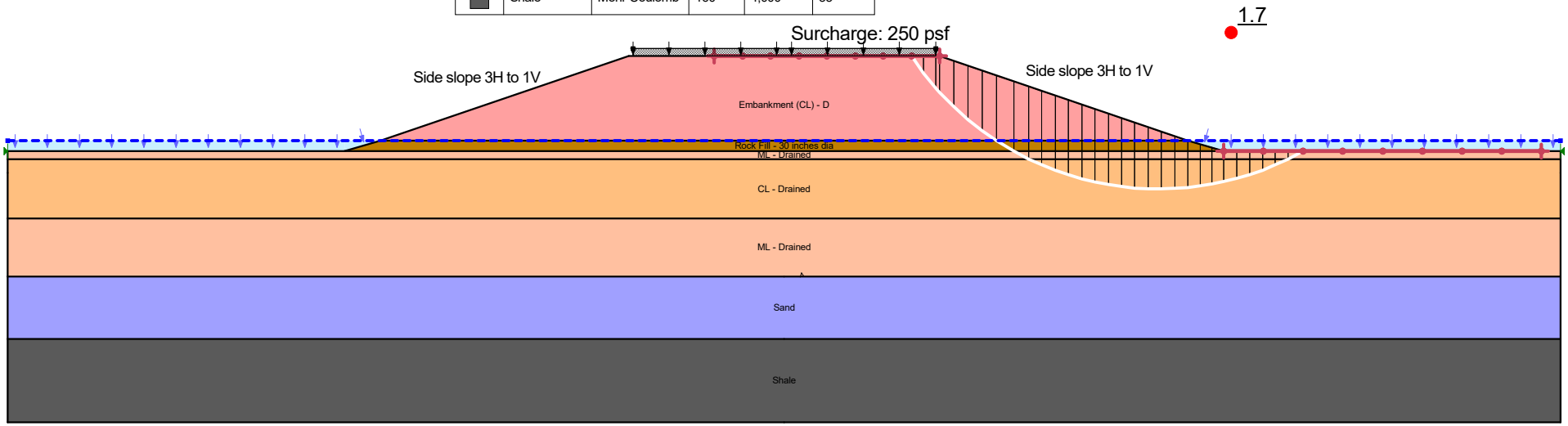
SLOPE/W North Approach Side slope

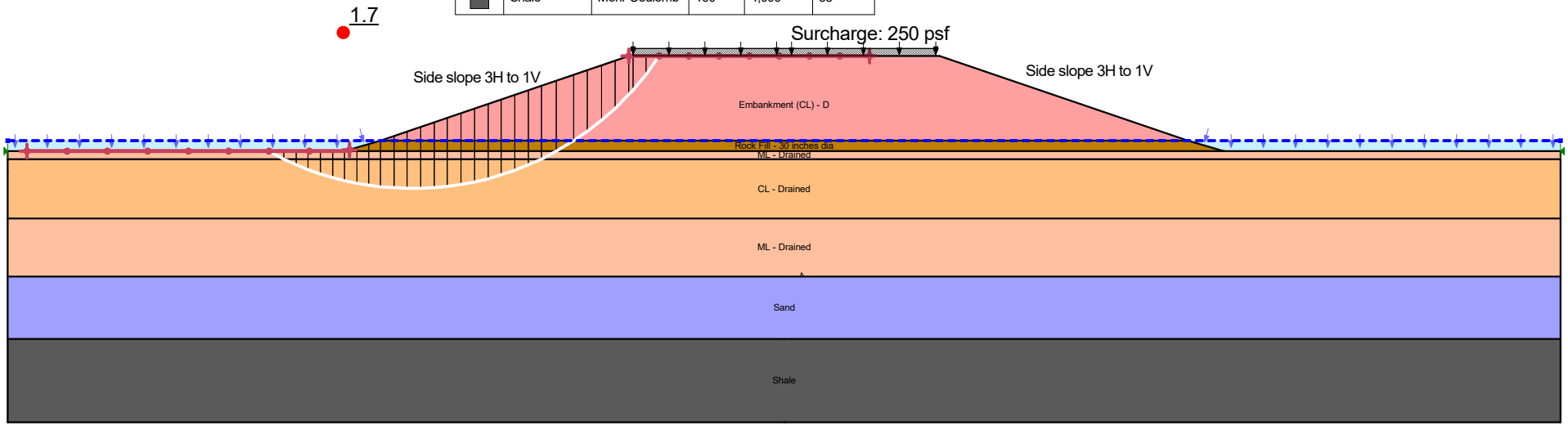
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	ML - Drained	Mohr-Coulomb	125	0	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	30
	Shale	Mohr-Coulomb	160	4,000	35



Project	I-49 Crawford County	
Analysis Description	Bridge 16 North Approach Side Slopes	Long Term
Designer/Author	PA	Station 260+00
Project Number 63136	Date 05/30/2023	File Name 16_North Approach side slope_20230530.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 16SB-NB Final\16_North Approach side slope_20230530.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	ML - Drained	Mohr-Coulomb	125	0	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	30
	Shale	Mohr-Coulomb	160	4,000	35



	Project I-49 Crawford County		
	Analysis Description Bridge 16 North Approach Side Slopes	Long Term	
	Designer/Author **PA**	*Station* 260+00	
Project Number 63136	*Date* 05/30/2023	*File Name* 16_North Approach side slope_20230530.gsz	

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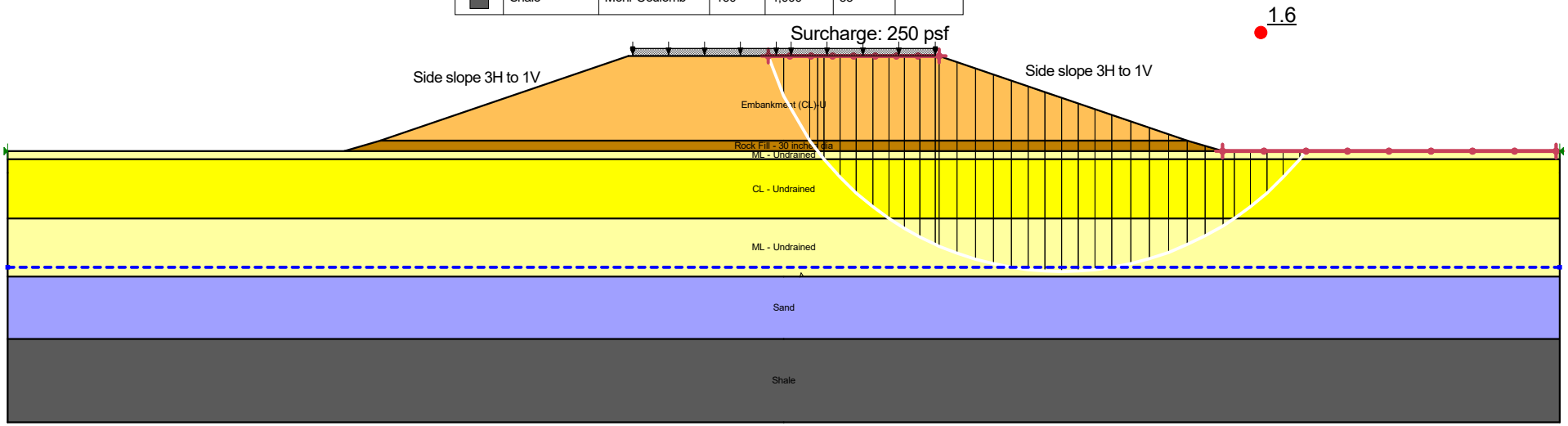
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
	CL - Undrained	Undrained (Phi=0)	120			1,000
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	ML - Undrained	Undrained (Phi=0)	125			850
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Sand	Mohr-Coulomb	125	0	30	
	Shale	Mohr-Coulomb	160	4,000	35	



Project	I-49 Crawford County	
Analysis Description	Bridge 16 North Approach Side Slopes	Short Term
Designer/Author	PA	Station 260+00
Project Number 63136	Date 05/30/2023	File Name 16_North Approach side slope_20230530.gsz

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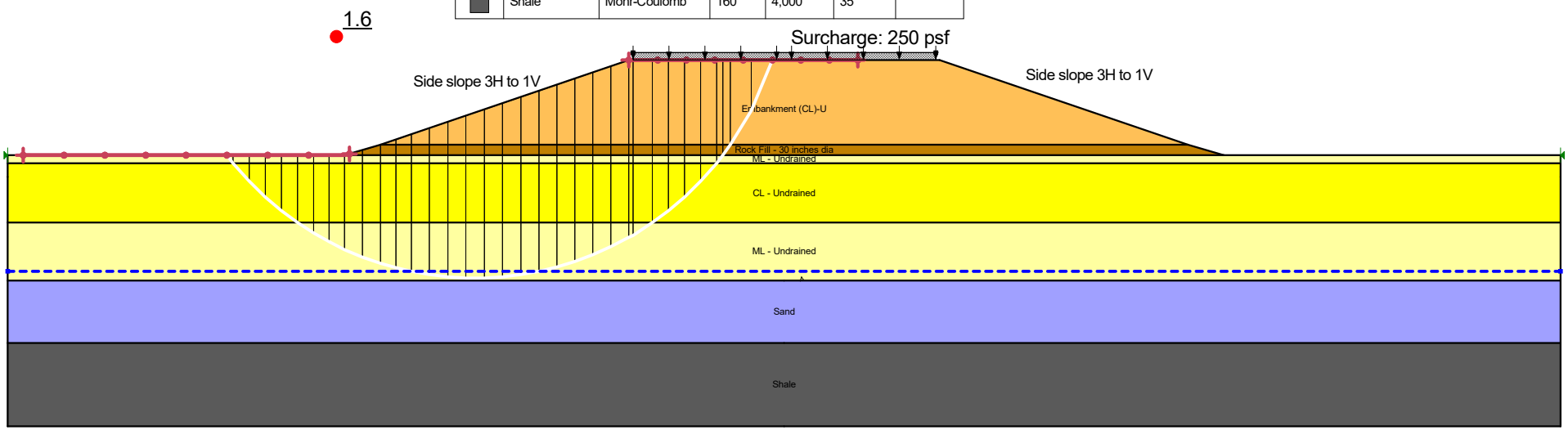
	Embankment (CL)-U	Undrained (Phi=0)	125			800
	ML - Undrained	Undrained (Phi=0)	125			850
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40	
	Sand	Mohr-Coulomb	125	0	30	
	Shale	Mohr-Coulomb	160	4,000	35	

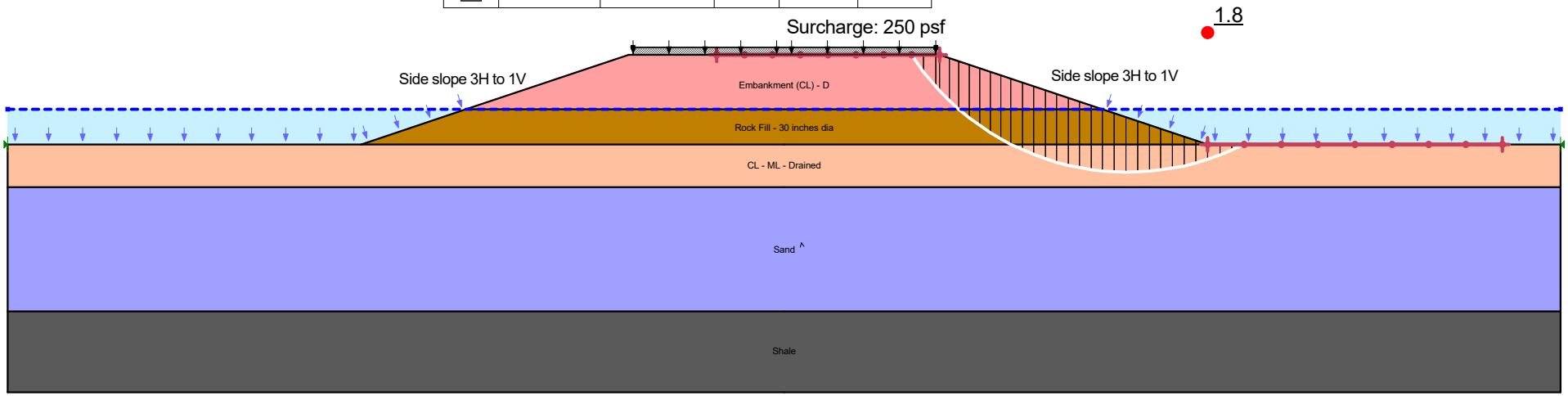


Project	I-49 Crawford County	
Analysis Description	Bridge 16 North Approach Side Slopes	Short Term
Designer/Author	PA	Station 260+00
Project Number 63136	Date 05/30/2023	File Name 16_North Approach side slope_20230530.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 16SB-NB Final\16_North Approach side slope_20230530.gsz

SLOPE/W South Approach Side slope

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL - ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	30
	Shale	Mohr-Coulomb	160	4,000	35



Project	I-49 Crawford County	
Analysis Description	Bridge 16 South Approach Side Slopes	Long Term
Designer/Author	PA	Station 240+30
Project Number 63136	Date 05/30/2023	File Name 16_South Approach side slope_20230530.gsz

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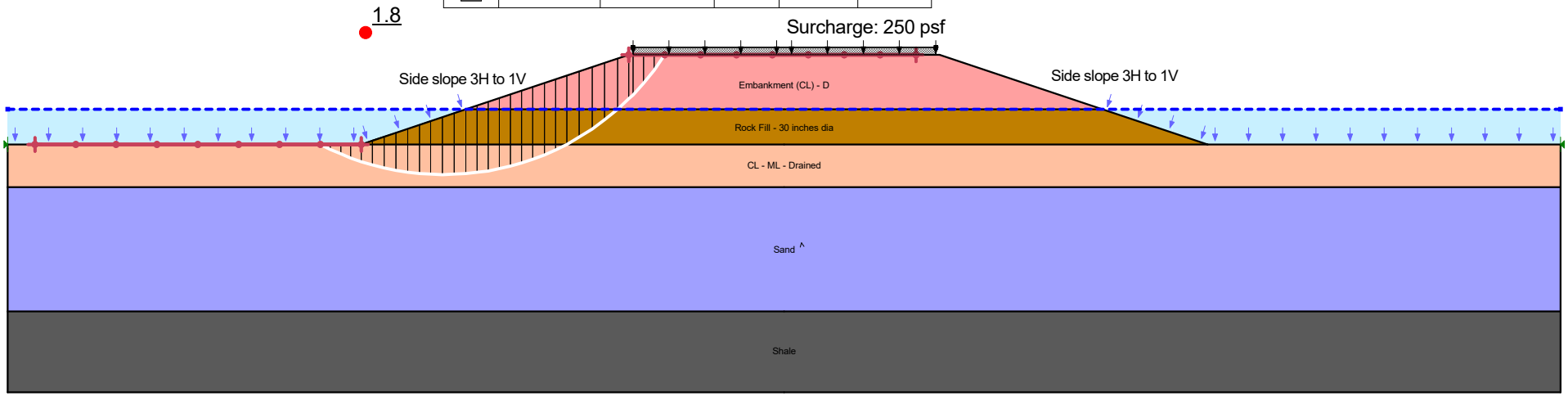
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	CL - ML - Drained	Mohr-Coulomb	120	0	26
	Embankment (CL) - D	Mohr-Coulomb	125	160	26
	Rock Fill - 30 inches dia	Mohr-Coulomb	145	0	40
	Sand	Mohr-Coulomb	125	0	30
	Shale	Mohr-Coulomb	160	4,000	35



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	Analysis Description: Bridge 16 South Approach Side Slopes		Long Term
	Designer/Author: PA	Station: 240+30	
Project Number: 63136	Date: 05/30/2023	File Name: 16_South Approach side slope_20230530.gsz	

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Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
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	Embankment (CL)-U	Undrained (Phi=0)	125			800
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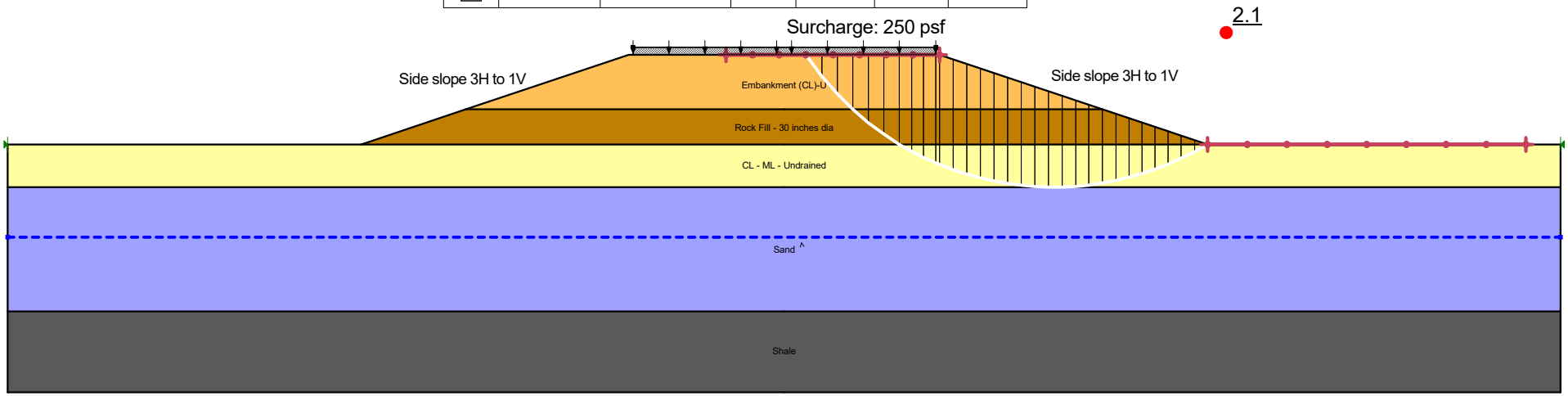
	Shale	Mohr-Coulomb	160	4,000	35	



Project	I-49 Crawford County	
Analysis Description	Bridge 16 South Approach Side Slopes	Short Term
Designer/Author	PA	Station 240+30
Project Number 63136	Date 05/30/2023	File Name 16_South Approach side slope_20230530.gsz

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Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)	Total Cohesion (psf)
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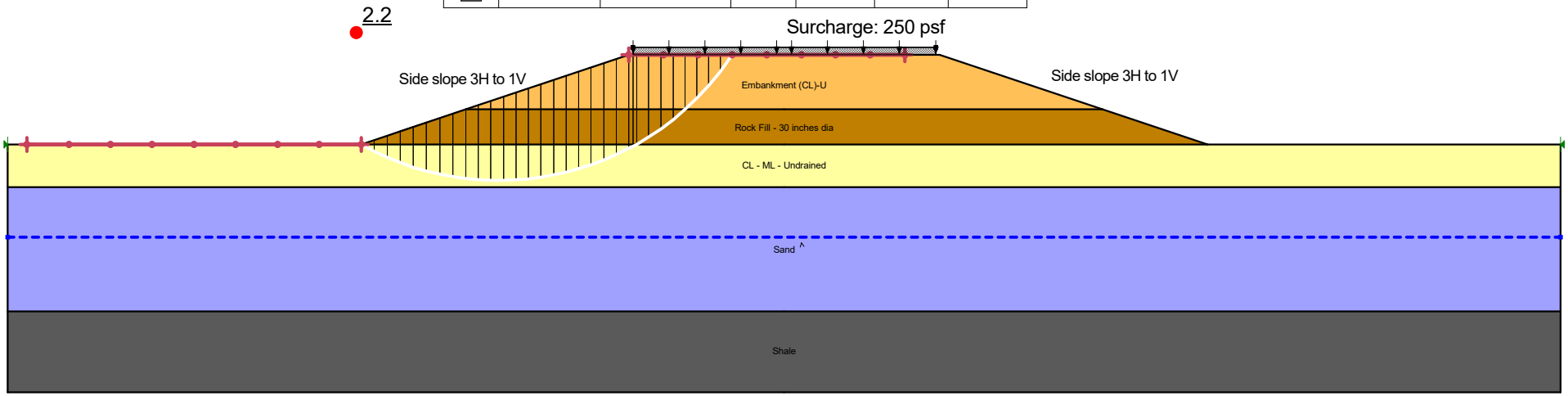


Project	I-49 Crawford County	
Analysis Description	Bridge 16 South Approach Side Slopes	Short Term
Designer/Author	PA	Station 240+30
Project Number 63136	Date 05/30/2023	File Name 16_South Approach side slope_20230530.gsz

\\kcow00\Jobs\63136\Design\Geotech\Analysis\1-Embankments\Bridge 16SB-NB Final\16_South Approach side slope_20230530.gsz

Boring for North Approach Side slope

21-071

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 400.0	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt (ML)	5					
			Firm brown silty clay (CL)	7					
5			- stiff below 3.5 ft						
			EL 392						
			Firm brown clayey silt, sandy (CL-ML)	7					
10									
			EL 387						
15			Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)	10					
20			- with fewer fine sandy silt seams and layers below 18 ft - medium dense at 18 to 23 ft	15					
25			- loose at 23 to 28 ft	9					
30				37					
35			- loose below 33 ft	9					
40			Medium dense tan fine to medium sand, slightly silty (SM-SP)	14					
			- dense below 43 ft	31					

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-80

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363128°N, -94.281058°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			EL 351.5						
			Moderately hard dark gray shale, horizontal bedding	50/4"					
50								92	87
55								98	98
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-26-23

DEPTH TO WATER IN BORING: 22 ft

DATE: 2/26/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 399.5	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose brown silt, sandy (ML)	5					
			Firm brown silty clay (CL)						
5				9					
			- firm to stiff below 6 ft EL 391.5	10					
			Soft reddish brown clayey silt (CML-ML)	5					
10									
			EL 385						
15			Loose to medium dense tan silty fine sand w/fine sandy silt seams and layers (SM)						
20				10					
			- loose at 23 to 38 ft - with fewer fine sandy silt seams and layers below 23 ft						
25				8					
30				5					
35				7					
			- dense below 38 ft						
40				31					
				35					

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 3-1-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-81

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 48.5 ft /NQ 2 Core-CME-55 LOCATION: 35.363132°N, -94.280751°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			EL 385						
			Moderately hard dark gray shale, horizontal bedding	50/3"					
50								85	73
55								100	100
60			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by JKB.						
65									
70									
75									
80									
85									

DRAFT

COMPLETION DEPTH: 60.0 ft
DATE: 2-27-23

DEPTH TO WATER IN BORING: 21.6 ft

DATE: 2/26/2023

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

SURF. EL: 399.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Loose reddish brown silt (ML), dry	6					
			- medium dense below 2 ft	14					
5			Stiff brown to reddish brown silty clay, slightly sandy (CL)	14			87		
			- firm with more silt below 6 ft		106				
10				7					
15				7					
			EL 382.6						
			Loose reddish brown silt (ML), moist						
20				6					
			- slightly sandy below 22 ft - very loose at 22 to 27 ft						
25				WOH					
			- medium dense below 27 ft						
30				16		-NON-PLASTIC-			
			EL 367.6						
			Dense to very dense reddish tan silty fine sand (SM) w/occasional fine-gravel						
35				50					
			- medium dense at 37 to 42 ft - with less silt below 37 ft						
				20			4		

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			- dense below 42 ft						
45				39					
			EL 352.6						
			Moderately hard dark gray shale, flat bedded w/numerous multi-directional fractures and close coal seams	50/1"					
50								33	0
55						q_u= 1150 psi, TUW= 160 pcf		100	50
60			- core barrel blocked at 60 to 65 ft					0	0
65						TUW= 158 pcf		96	60
70						q_u= 980 psi, TUW= 161 pcf		98	83
75								100	50

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. R-15

040748 Hwy 22 to I-40 (Arkansas River)
Crawford County, Arkansas

TYPE: 3.25 in. HSA 25 ft /Wash 50 ft /NQ Core - CME - 55

LOCATION: 35.36348° N -94.28076° E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
						TUW= 153 pcf		72	17
85								100	33
90			- with very close coal seams below 90 ft			TUW= 159 pcf		67	50
95			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by KD. NOTE 3: Logged by DM.						
100									
105									
110									
115									

COMPLETION DEPTH: 95.0 ft
DATE: 12-17-21

DEPTH TO WATER IN BORING: 22.6 ft

DATE: 12/15/2021

RECRQDN200-2 21-071_R LOGS.GPJ 6-3-22

Boring for South Approach Side slope

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55

LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL SURF. EL: 388.9	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT — WATER CONTENT — LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			Soft reddish brown silty clay (CL)	6					
			Loose reddish brown silt (ML)	6					
5			Soft reddish brown silty clay (CL) w/some silt seams EL 382.9						
			Loose reddish tan silty fine sand w/occasional clay seams (SM)	7					
10				10					
			Brown tan silty fine sand (SM) - medium dense below 12 ft Normal Water level 374.7	8					
15									
20				10					
25				12					
30			Medium dense tan fine to coarse sand w/some fine to coarse gravel (SP)	15					
35				22					
				EL 350.9					
40			Moderately hard dark gray shale, horizontal bedding - with occasional gray fine-grained sandstone partings below 40 ft	50/1"				75	47

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-7-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55 LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
								100	90
50			- with some fractures and 100% water loss 52 ft					98	42
55								95	87
60									
			Low hardness black coal					67	0
65									
			Moderately hard gray fine-grained sandstone w/interbedded very close, very thin dark gray shale partings, horizontal bedding					100	100
70								100	100
75								98	98
80								100	100
85								100	100

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

RECRQDN200-2 21-071_FB LOGS.GPJ 4-7-23

Grubbs, Hoskyn, Barton & Wyatt, Inc.
Consulting Engineers

LOG OF BORING NO. FB-66

040748 Hwy 22 to I-40 (Arkansas River)
Crawford & Sebastian Co., Arkansas

TYPE: 3.25 in. HSA 20 ft /NQ 2 Core-CME-55

LOCATION: 35.358489°N, -94.280716°E

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL (continued)	BLOWS PER FT	UNIT DRY WT LB/CU FT	COHESION, TON/SQ FT (0.2 0.4 0.6 0.8 1.0 1.2 1.4) / PLASTIC LIMIT / WATER CONTENT / LIQUID LIMIT (10 20 30 40 50 60 70)	- No. 200 %	% Recovery	% RQD
			NOTE 1: Backfilled with cuttings. NOTE 2: Drilled by JSW. NOTE 3: Logged by DRM.						
95									
100									
105									
110									
115									
120									
125									
130									

DRAFT

COMPLETION DEPTH: 90.0 ft
DATE: 4-6-23

DEPTH TO WATER IN BORING: 14.2 ft

DATE: 4/5/2023

Section 408 Summary Report

Appendix B1

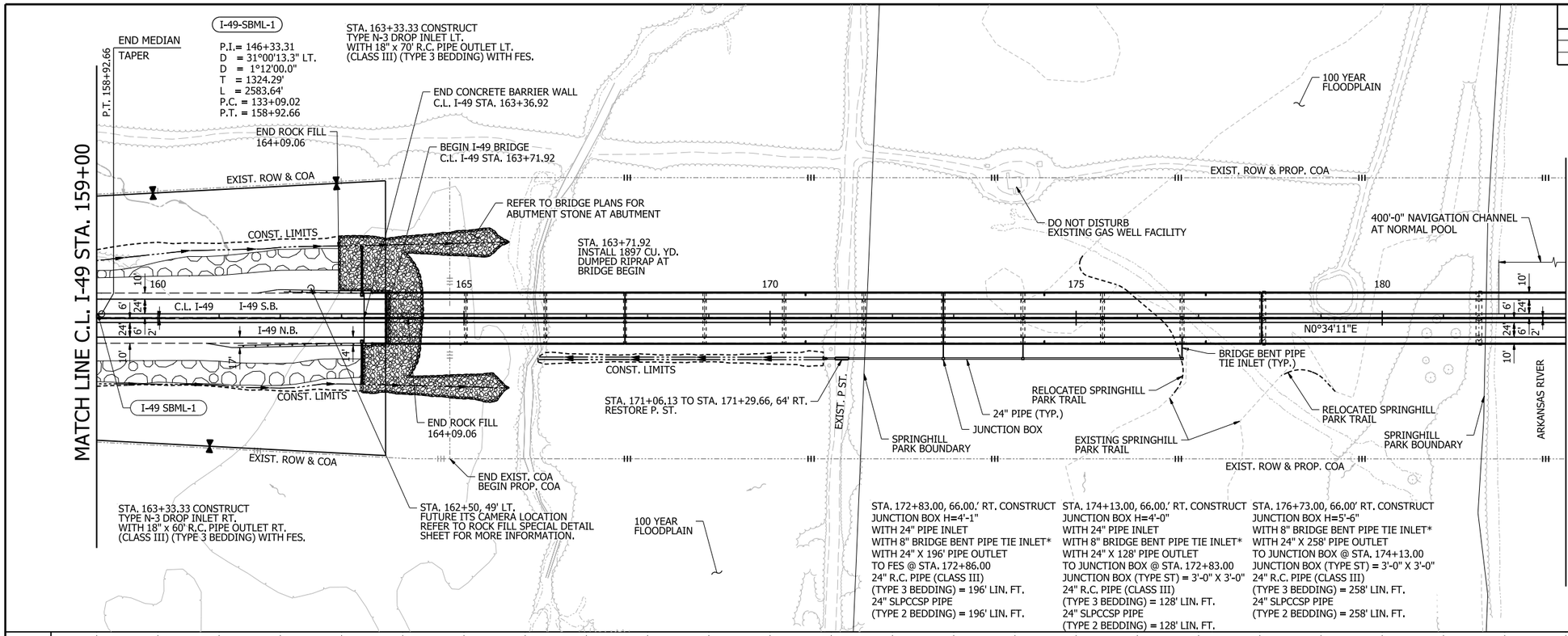
Preliminary Design Plans

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	160	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



I-49

0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'
0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- OBLITERATION OF PAVEMENT

STA. 108+65.00 BEGIN SUPERELEVATION
STA. 112+15.00 MAX. SUPERELEVATION (0.046 '/')
STA. 157+02.00 MAX. SUPERELEVATION (0.046 '/')
STA. 160+52.00 END SUPERELEVATION

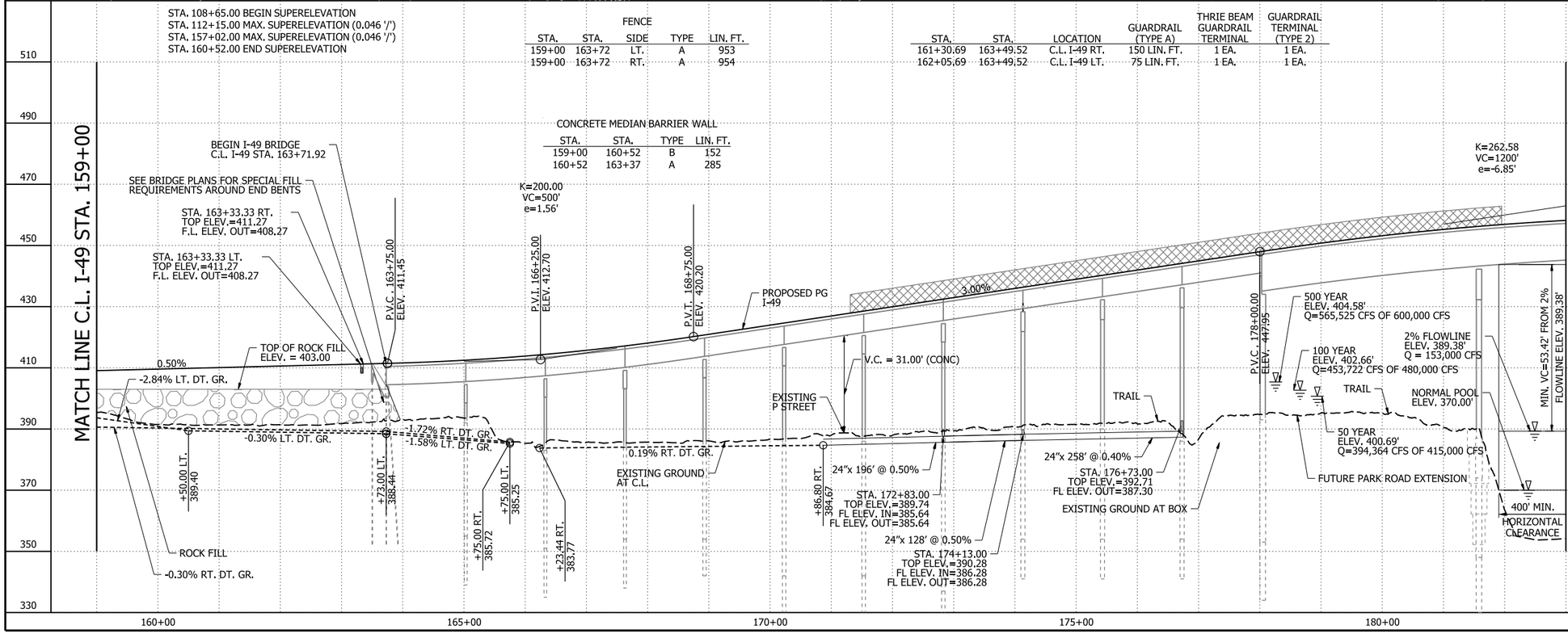
FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
159+00	163+72	LT.	A	953
159+00	163+72	RT.	A	954

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
161+30.69	163+49.52	C.L. I-49 RT.	150 LIN. FT.	1 EA.	1 EA.
162+05.69	163+49.52	C.L. I-49 LT.	75 LIN. FT.	1 EA.	1 EA.

CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
159+00	160+52	B	152
160+52	163+37	A	285



NOTES:

1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT DATA AND VERTICAL CONTROL.

* SEE BRIDGE BENT TIE DETAIL SPECIAL DETAIL

I-49
PLAN AND PROFILE SHEETS

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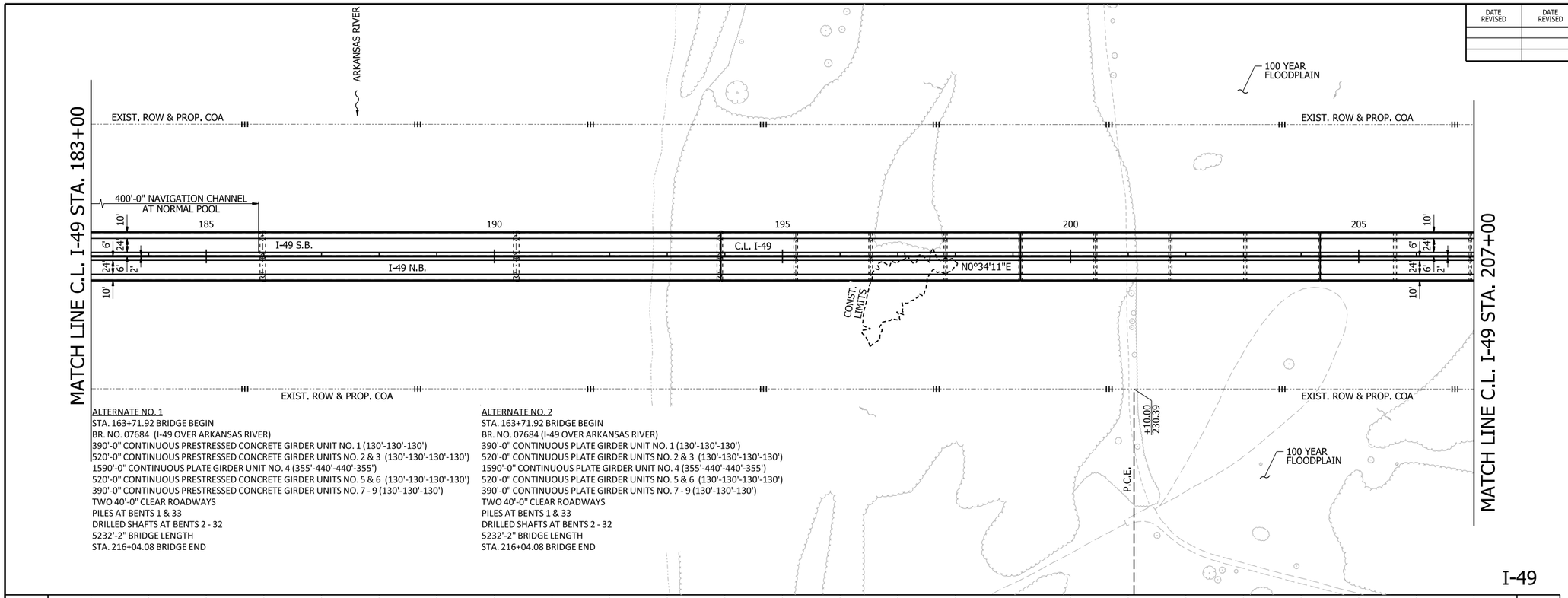
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	161	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



ALTERNATE NO. 1
STA. 163+71.92 BRIDGE BEGIN
BR. NO. 07684 (I-49 OVER ARKANSAS RIVER)
390'-0" CONTINUOUS PRESTRESSED CONCRETE GIRDER UNIT NO. 1 (130'-130'-130')
520'-0" CONTINUOUS PRESTRESSED CONCRETE GIRDER UNITS NO. 2 & 3 (130'-130'-130'-130')
1590'-0" CONTINUOUS PLATE GIRDER UNIT NO. 4 (355'-440'-440'-355')
520'-0" CONTINUOUS PRESTRESSED CONCRETE GIRDER UNITS NO. 5 & 6 (130'-130'-130'-130')
390'-0" CONTINUOUS PRESTRESSED CONCRETE GIRDER UNITS NO. 7 - 9 (130'-130'-130')
TWO 40'-0" CLEAR ROADWAYS
PILES AT BENTS 1 & 33
DRILLED SHAFTS AT BENTS 2 - 32
5232'-2" BRIDGE LENGTH
STA. 216+04.08 BRIDGE END

ALTERNATE NO. 2
STA. 163+71.92 BRIDGE BEGIN
BR. NO. 07684 (I-49 OVER ARKANSAS RIVER)
390'-0" CONTINUOUS PLATE GIRDER UNIT NO. 1 (130'-130'-130')
520'-0" CONTINUOUS PLATE GIRDER UNITS NO. 2 & 3 (130'-130'-130'-130')
1590'-0" CONTINUOUS PLATE GIRDER UNIT NO. 4 (355'-440'-440'-355')
520'-0" CONTINUOUS PLATE GIRDER UNITS NO. 5 & 6 (130'-130'-130'-130')
390'-0" CONTINUOUS PLATE GIRDER UNITS NO. 7 - 9 (130'-130'-130')
TWO 40'-0" CLEAR ROADWAYS
PILES AT BENTS 1 & 33
DRILLED SHAFTS AT BENTS 2 - 32
5232'-2" BRIDGE LENGTH
STA. 216+04.08 BRIDGE END

0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

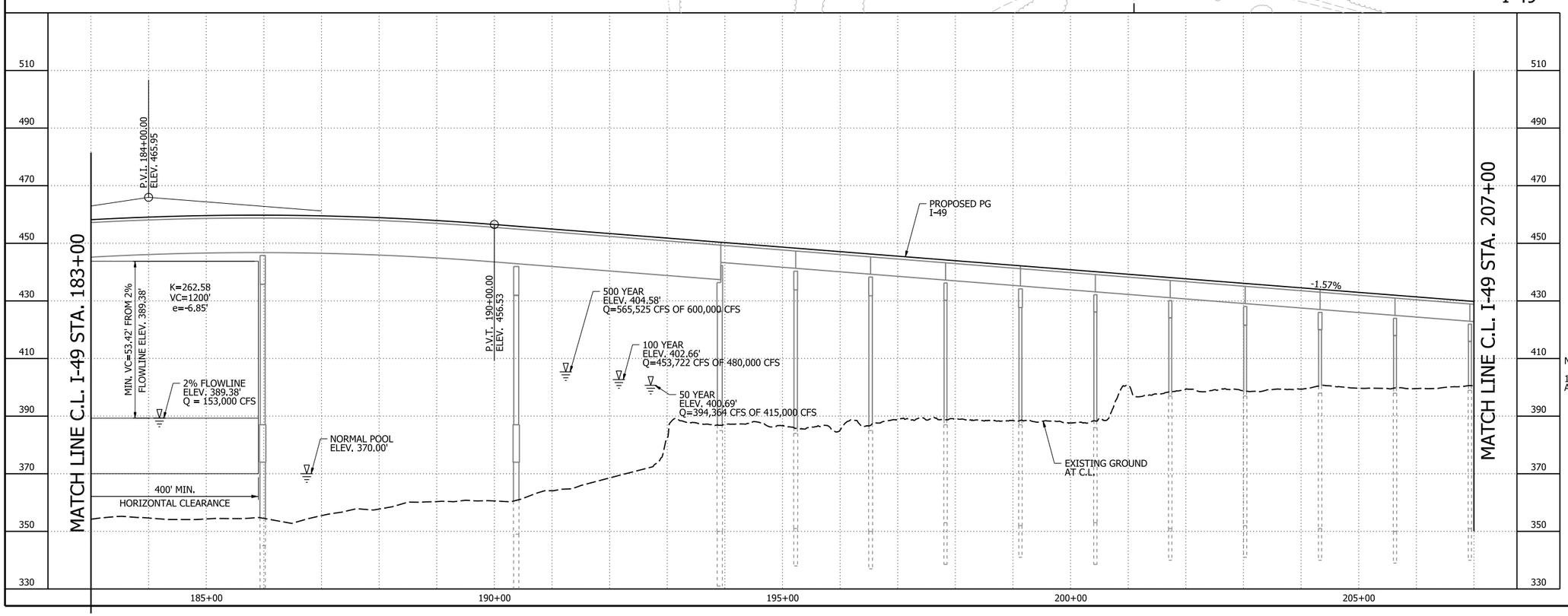
0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- OBLITERATION OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT DATA AND VERTICAL CONTROL.



I-49
PLAN AND PROFILE SHEETS

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DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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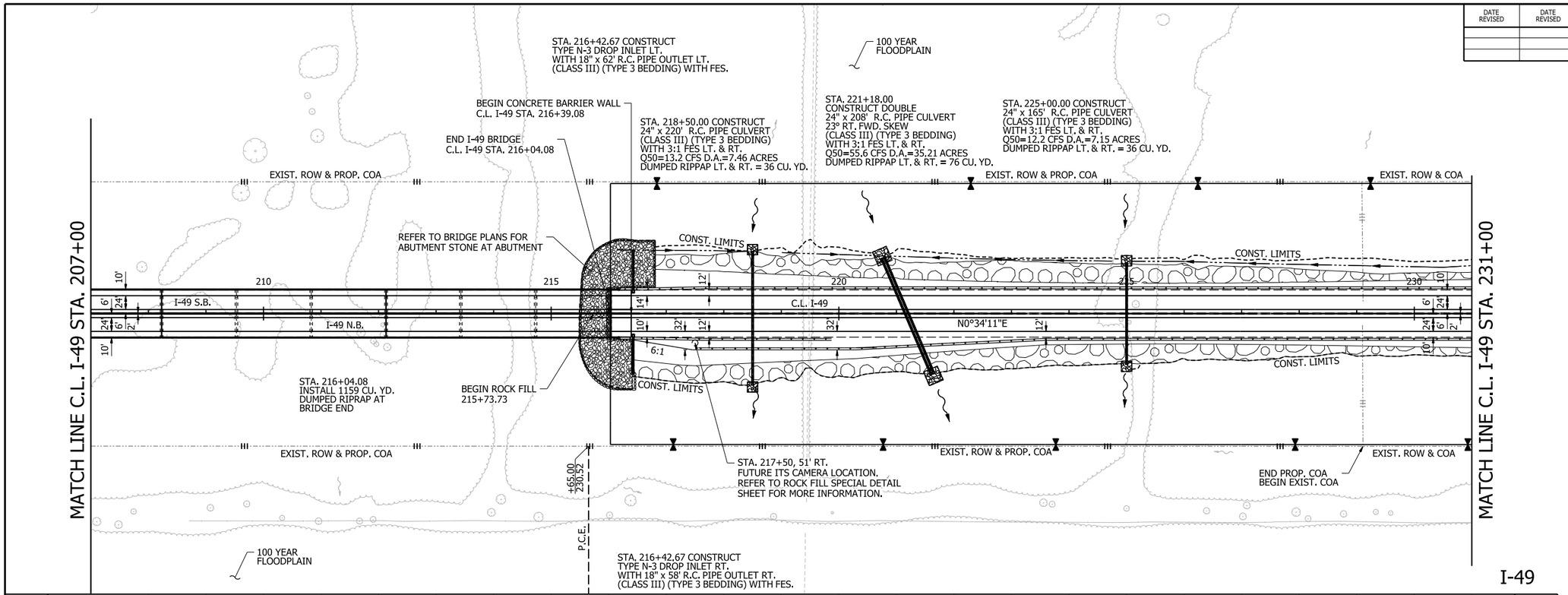
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

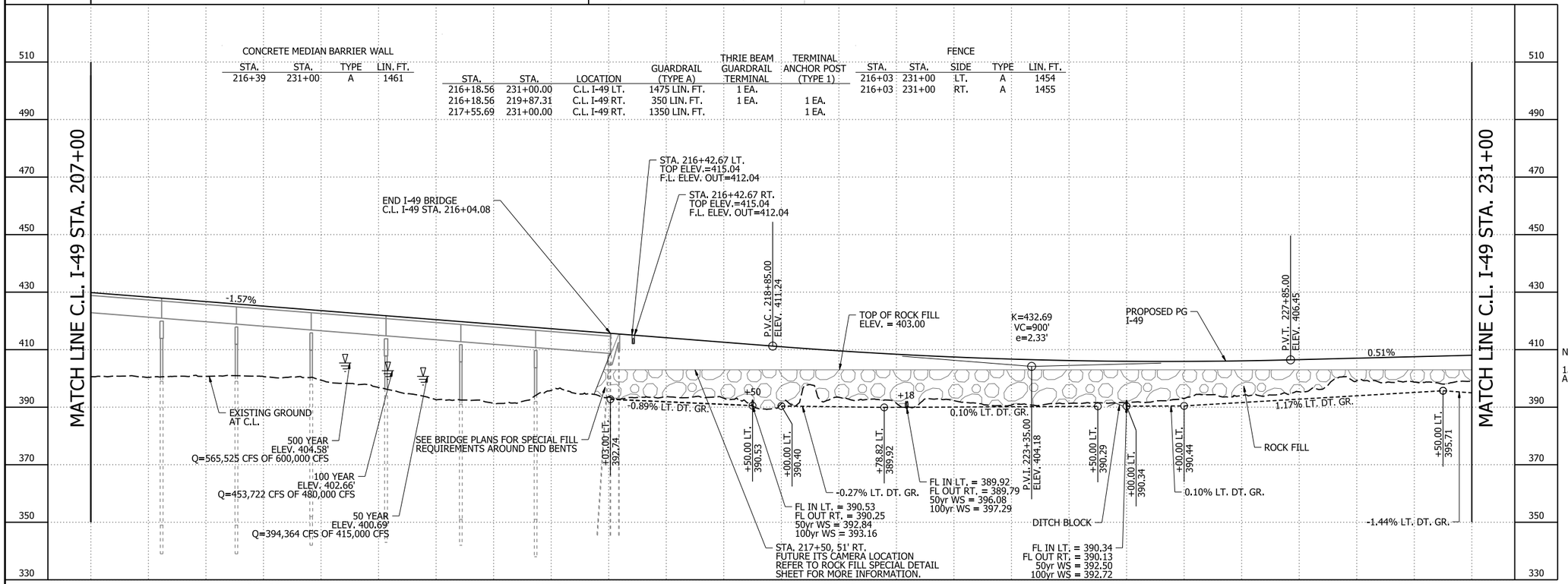
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
216+39	231+00	A	1461

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	TERMINAL ANCHOR POST (TYPE 1)
216+18.56	231+00.00	C.L. I-49 LT.	1475 LIN. FT.	1 EA.	
216+18.56	219+87.31	C.L. I-49 RT.	350 LIN. FT.	1 EA.	1 EA.
217+55.69	231+00.00	C.L. I-49 RT.	1350 LIN. FT.		1 EA.

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
216+03	231+00	LT.	A	1454
216+03	231+00	RT.	A	1455



LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- OBLITERATION OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT DATA AND VERTICAL CONTROL.

I-49
PLAN AND PROFILE SHEETS

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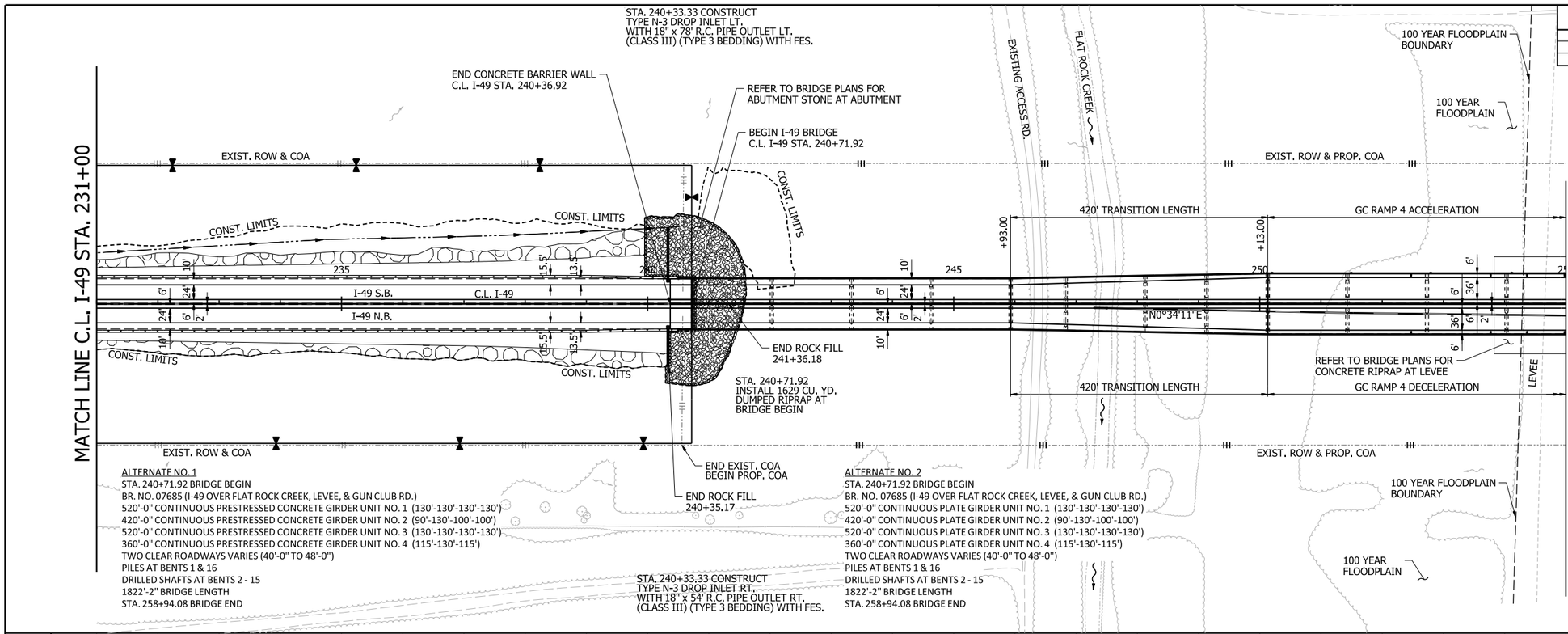
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	163	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- OBLITERATION OF PAVEMENT

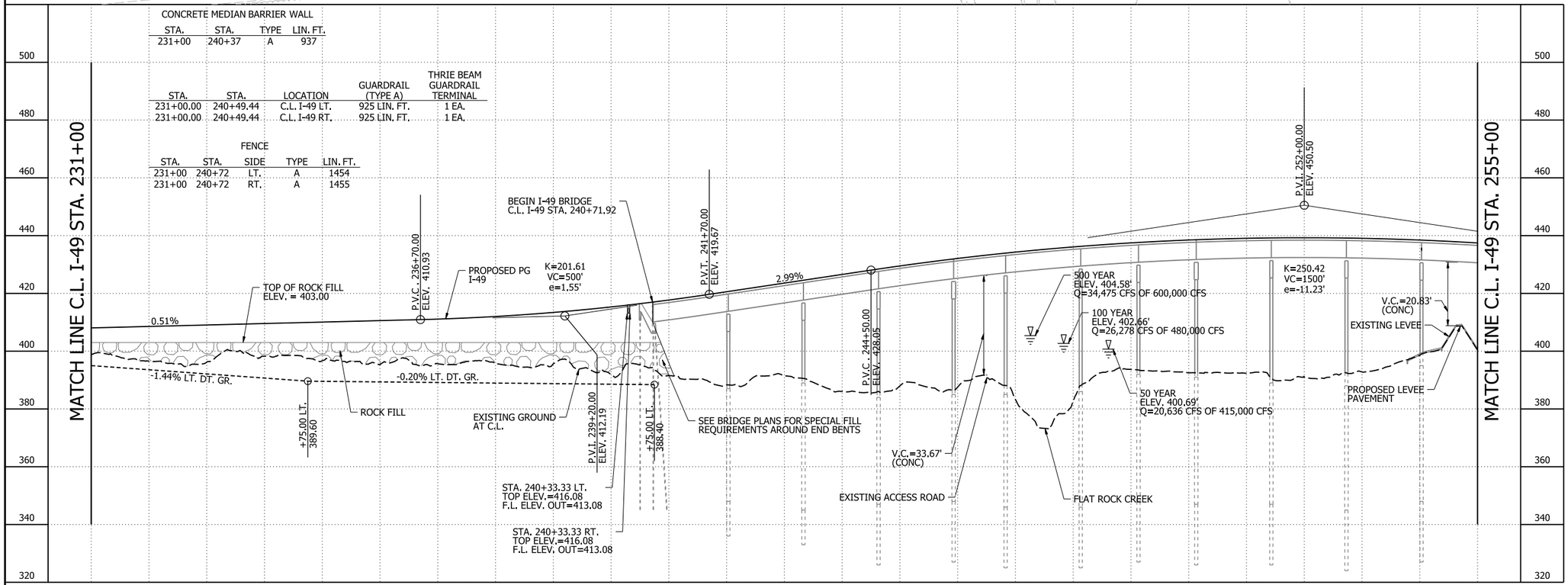
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
231+00	240+37	A	937

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL
231+00.00	240+49.44	C.L. I-49 LT.	925 LIN. FT.	1 EA.
231+00.00	240+49.44	C.L. I-49 RT.	925 LIN. FT.	1 EA.

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
231+00	240+72	LT.	A	1454
231+00	240+72	RT.	A	1455



NOTES:

1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT DATA AND VERTICAL CONTROL.

I-49
PLAN AND PROFILE SHEETS

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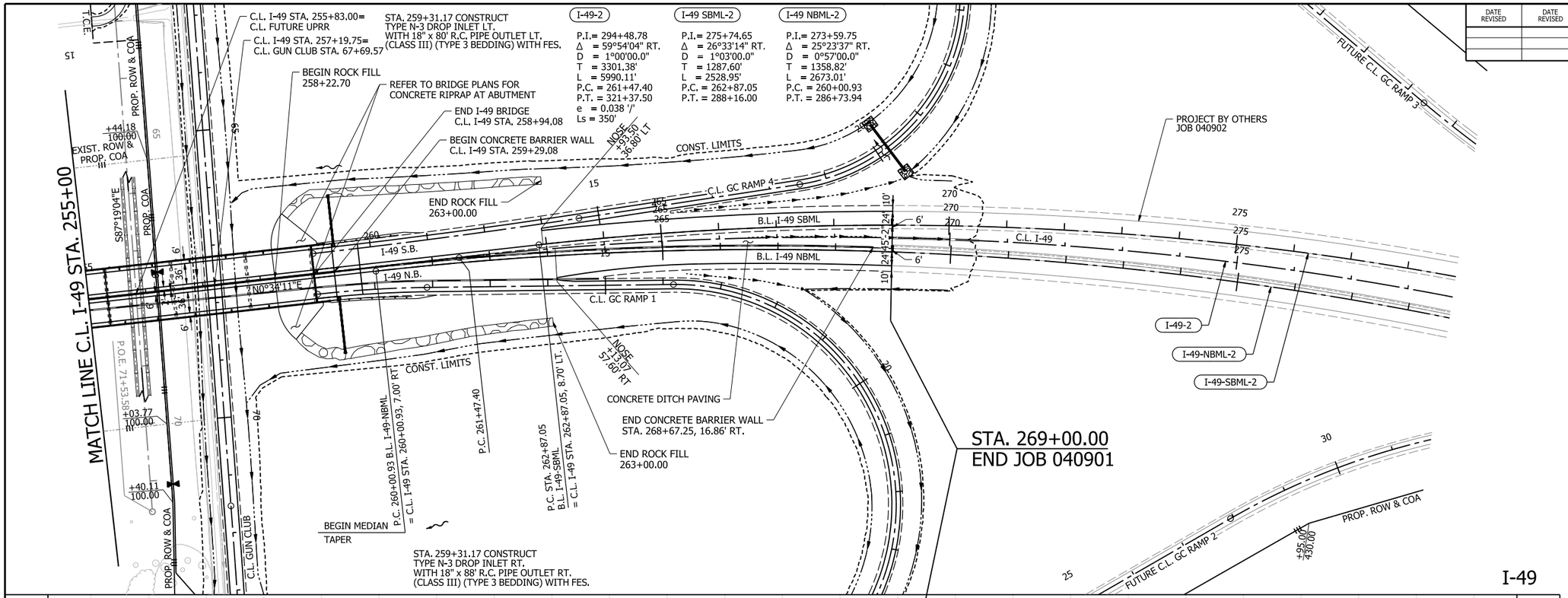
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	164	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- OBLITERATION OF PAVEMENT

STA. 258+95.00 BEGIN SUPERELEVATION
STA. 262+45.00 MAX. SUPERELEVATION (0.038 '/')
STA. 320+50.00 MAX. SUPERELEVATION (0.038 '/')
STA. 324+00.00 END SUPERELEVATION

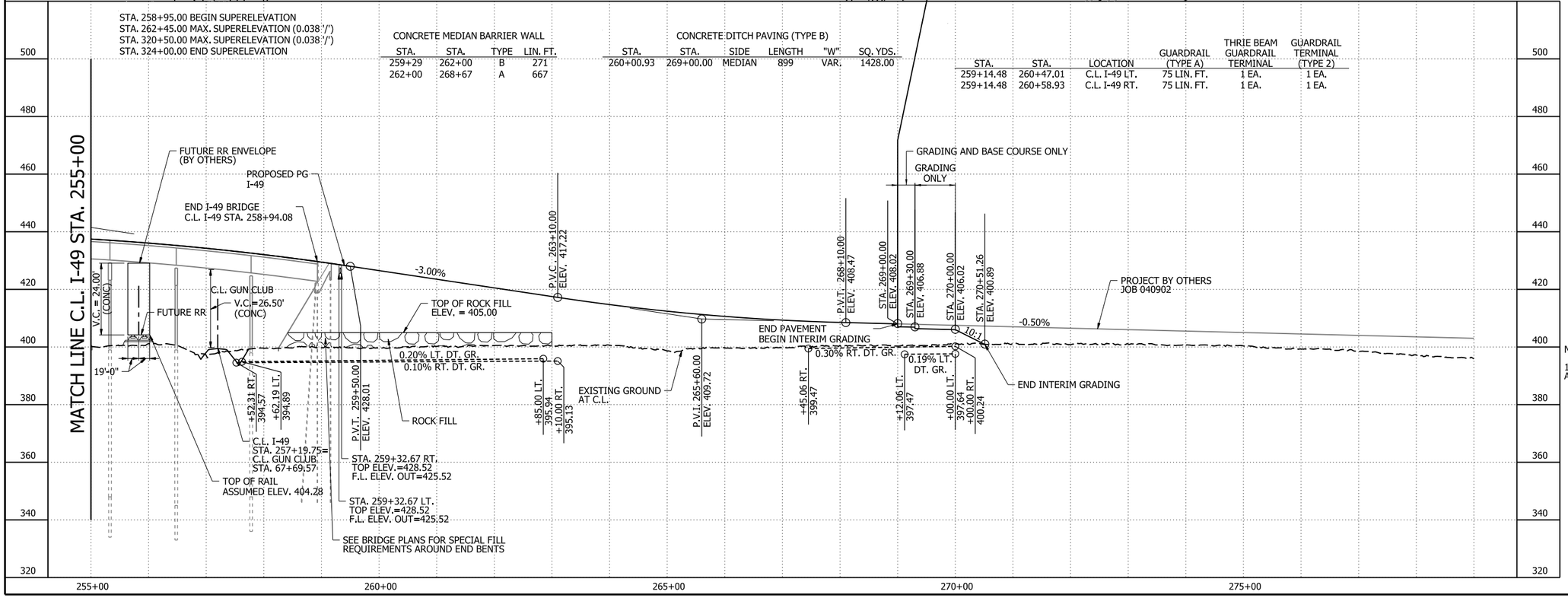
CONCRETE MEDIAN BARRIER WALL

STA.	STA.	TYPE	LIN. FT.
259+29	262+00	B	271
262+00	268+67	A	667

CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
260+00.93	269+00.00	MEDIAN	899	VAR.	1428.00

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
259+14.48	260+47.01	C.L. I-49 LT.	75 LIN. FT.	1 EA.	1 EA.
259+14.48	260+58.93	C.L. I-49 RT.	75 LIN. FT.	1 EA.	1 EA.



NOTES:

1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT DATA AND VERTICAL CONTROL.

I-49
PLAN AND PROFILE SHEETS

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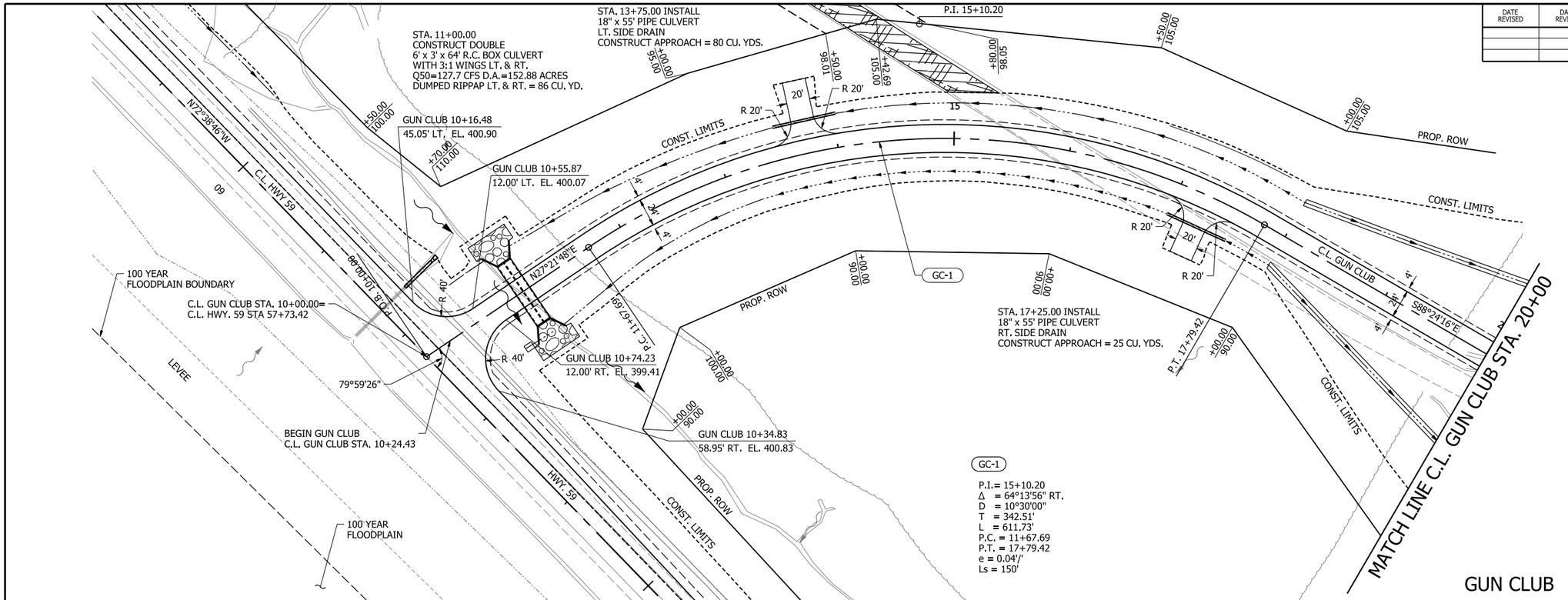
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	183	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



GC-1

P.I.= 15+10.20
Δ = 64°13'56" RT.
D = 10°30'00"
T = 342.51'
L = 611.73'
P.C. = 11+67.69
P.T. = 17+79.42
e = 0.04'/'
Ls = 150'

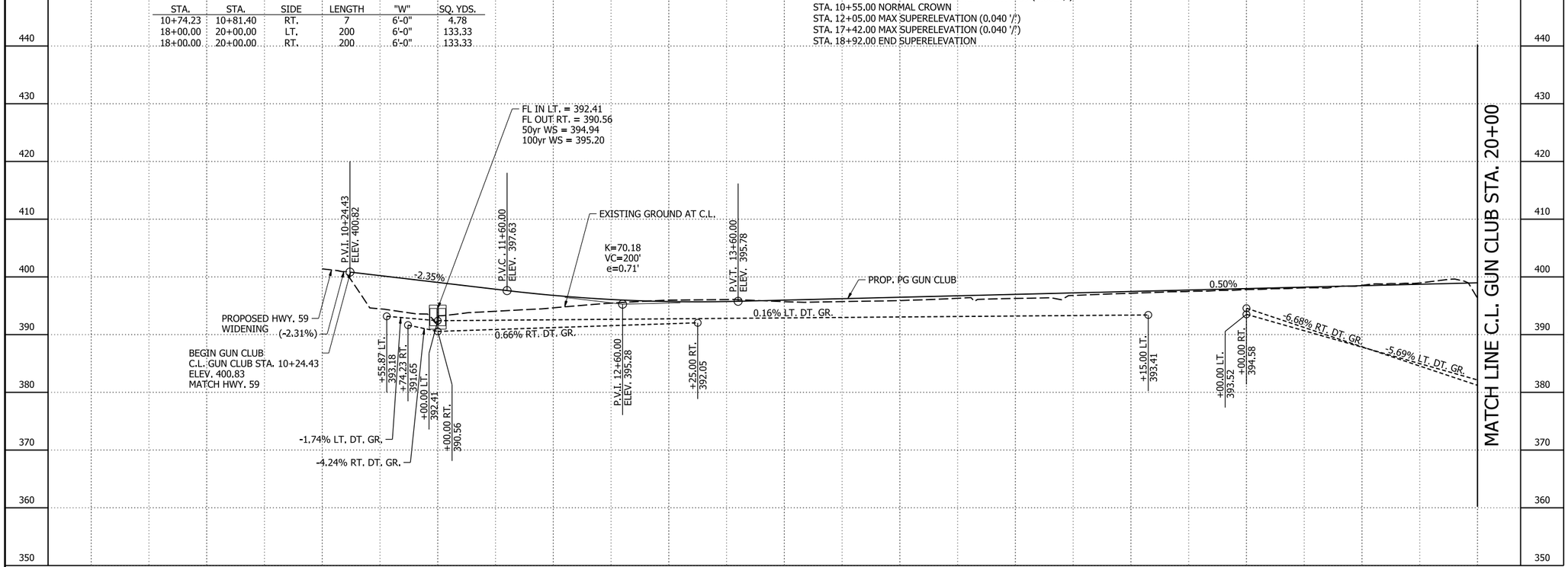
0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
10+74.23	10+81.40	RT.	7	6'-0"	4.78
18+00.00	20+00.00	LT.	200	6'-0"	133.33
18+00.00	20+00.00	RT.	200	6'-0"	133.33

STA. 10+24.43 MATCH EDGE PAVEMENT - HWY. 59 (0.002 '/')
STA. 10+55.00 NORMAL CROWN
STA. 12+05.00 MAX SUPERELEVATION (0.040 '/')
STA. 17+42.00 MAX SUPERELEVATION (0.040 '/')
STA. 18+92.00 END SUPERELEVATION



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- OBLITERATION OF PAVEMENT

NOTES:

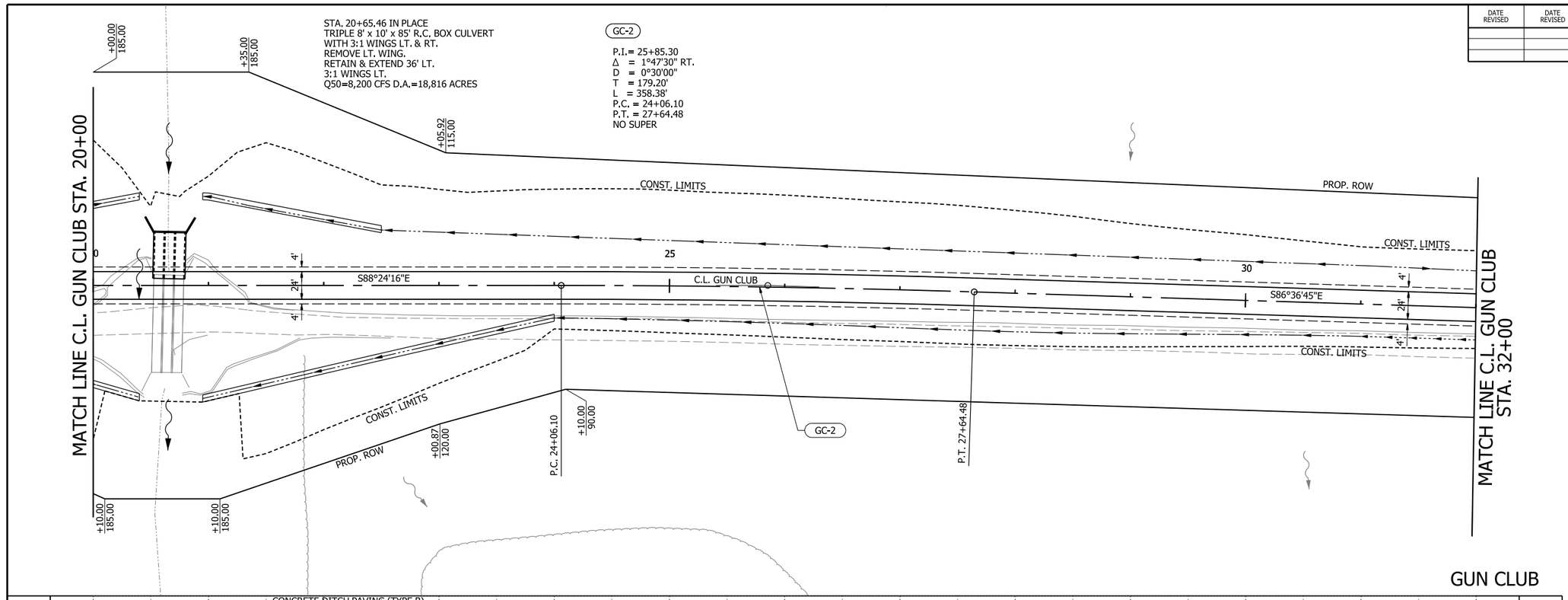
1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA.

GUN CLUB
PLAN AND PROFILE SHEETS

5/1/2024 2:39:58 PM
R040901_16_PP_004.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	184	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

N

LEGEND

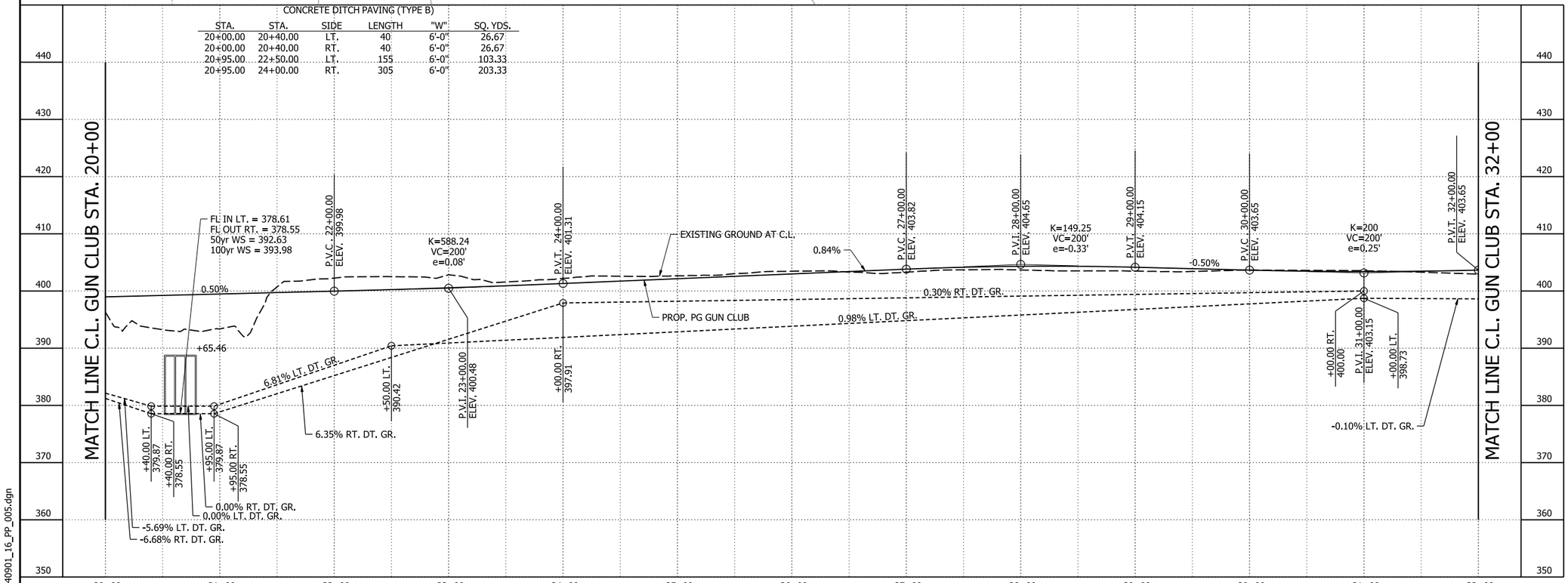
- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- OBLITERATION OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA.

CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
20+00.00	20+40.00	LT.	40	6'-0"	26.67
20+00.00	20+40.00	RT.	40	6'-0"	26.67
20+95.00	22+50.00	LT.	155	6'-0"	103.33
20+95.00	24+00.00	RT.	305	6'-0"	203.33

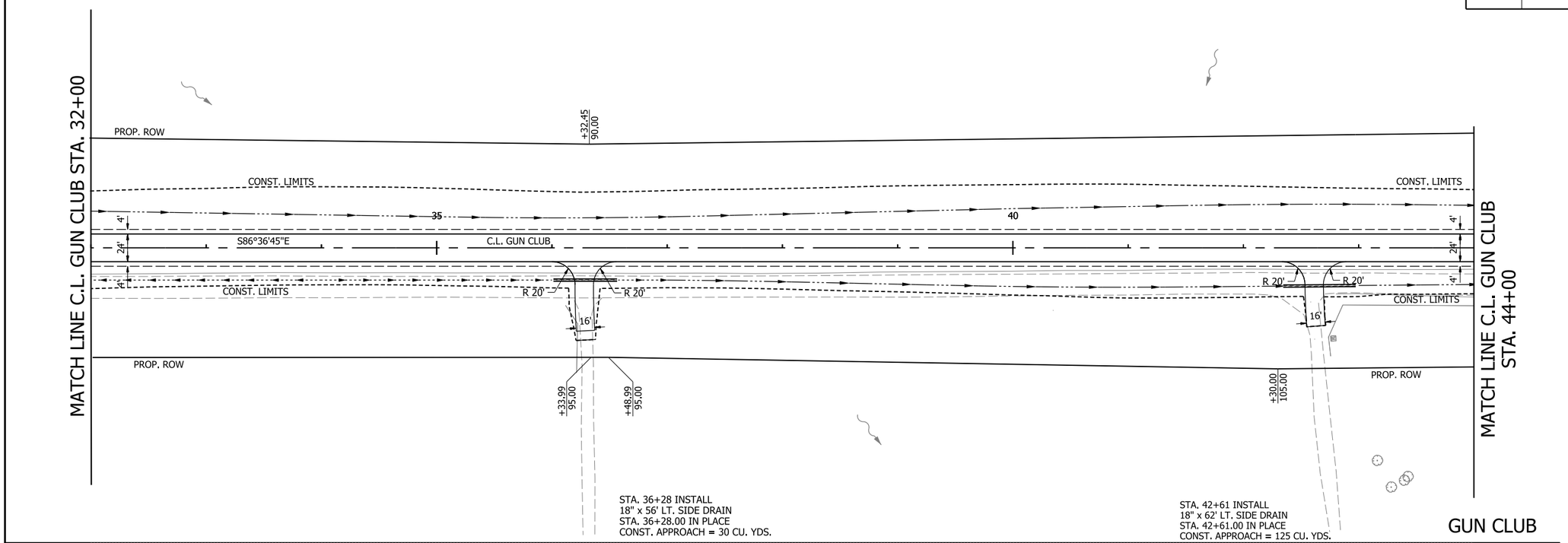


GUN CLUB
PLAN AND PROFILE SHEETS

5/1/2024 2:40:00 PM
R040901_16_PP_005.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	185	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

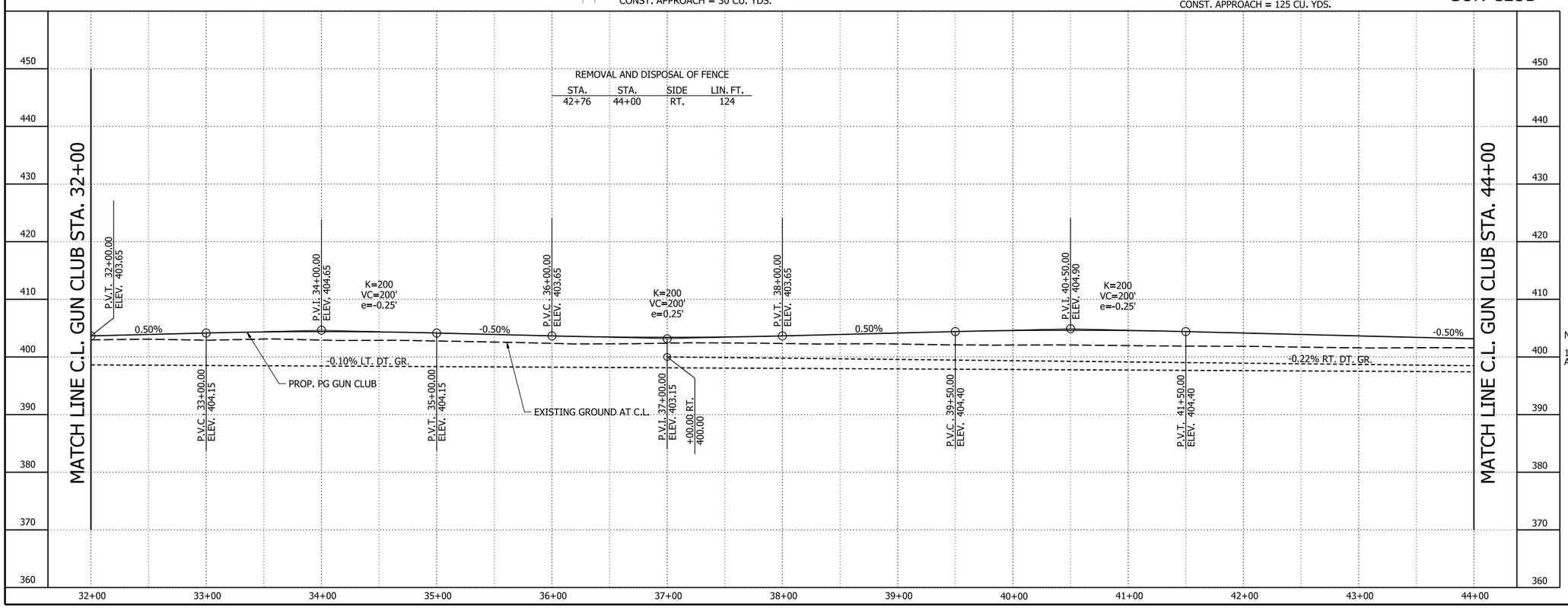
N

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- OBLITERATION OF PAVEMENT

REMOVAL AND DISPOSAL OF FENCE

STA.	STA.	SIDE	LIN. FT.
42+76	44+00	RT.	124



NOTES:

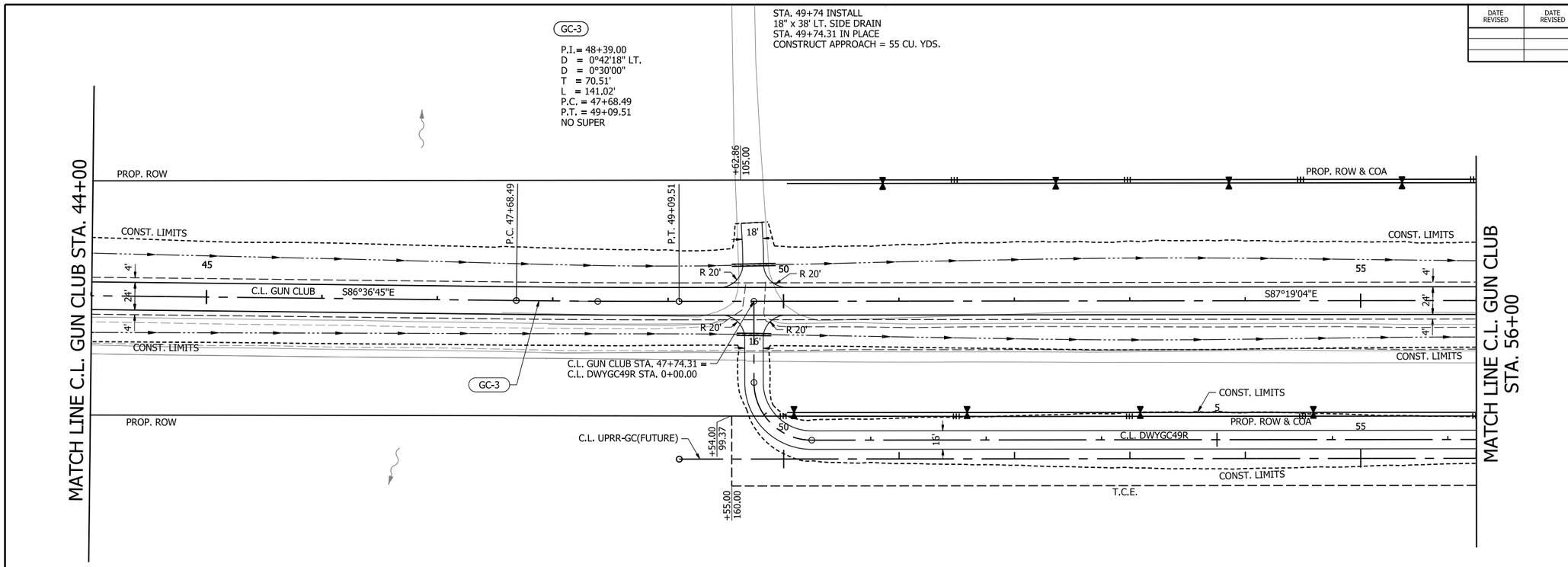
1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA.

GUN CLUB
PLAN AND PROFILE SHEETS

5/1/2024 2:40:01 PM
R040901_16_PP_006.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	186	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



GUN CLUB

0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

N

LEGEND

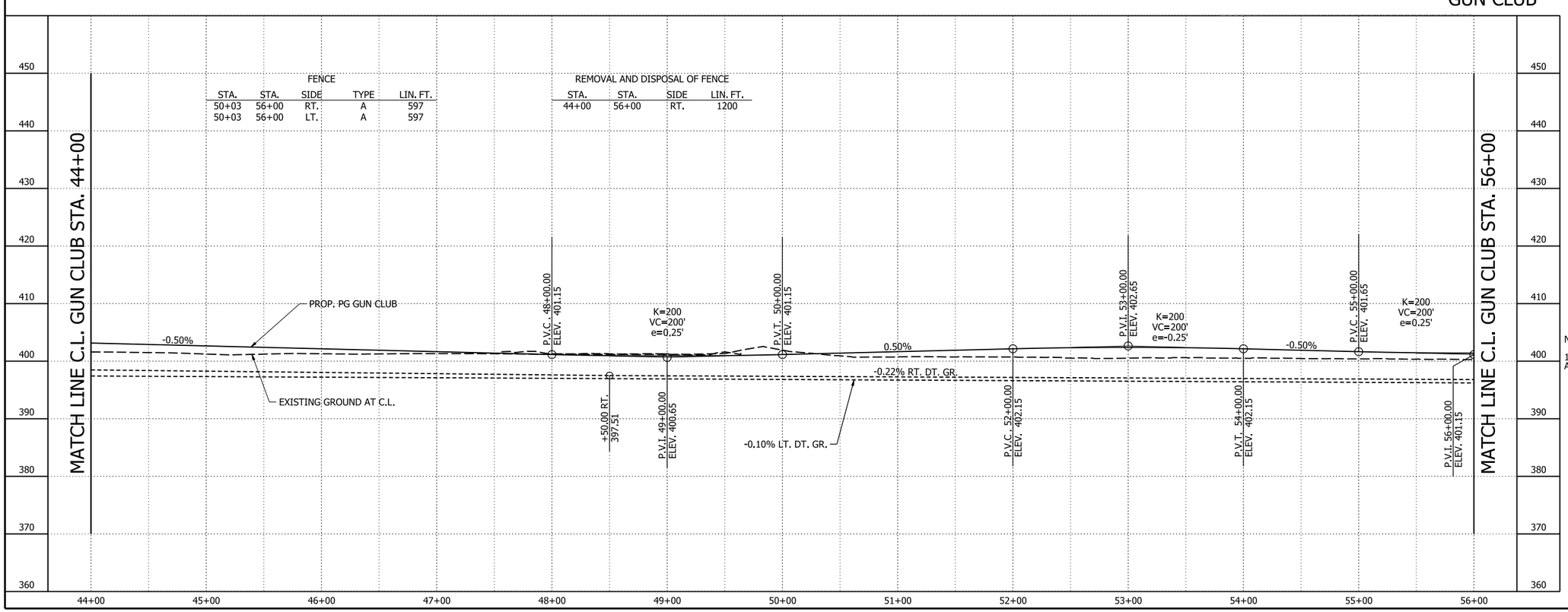
- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- OBLITERATION OF PAVEMENT

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
50+03	56+00	RT.	A	597
50+03	56+00	LT.	A	597

REMOVAL AND DISPOSAL OF FENCE

STA.	STA.	SIDE	LIN. FT.
44+00	56+00	RT.	1200



NOTES:

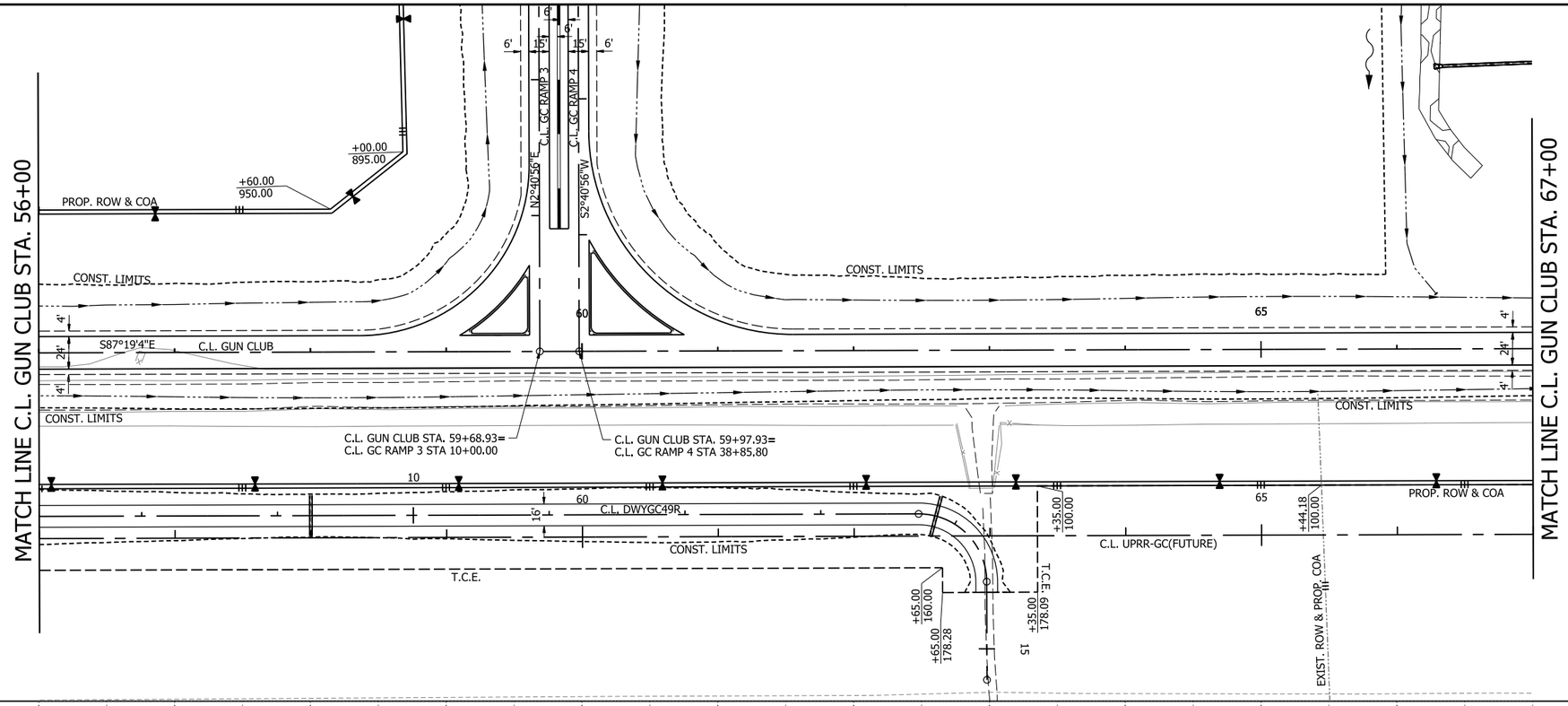
1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA.

GUN CLUB
PLAN AND PROFILE SHEETS

5/1/2024 2:40:02 PM
R040901_16_PP_007.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	187	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

N

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- OBLITERATION OF PAVEMENT

NOTES:

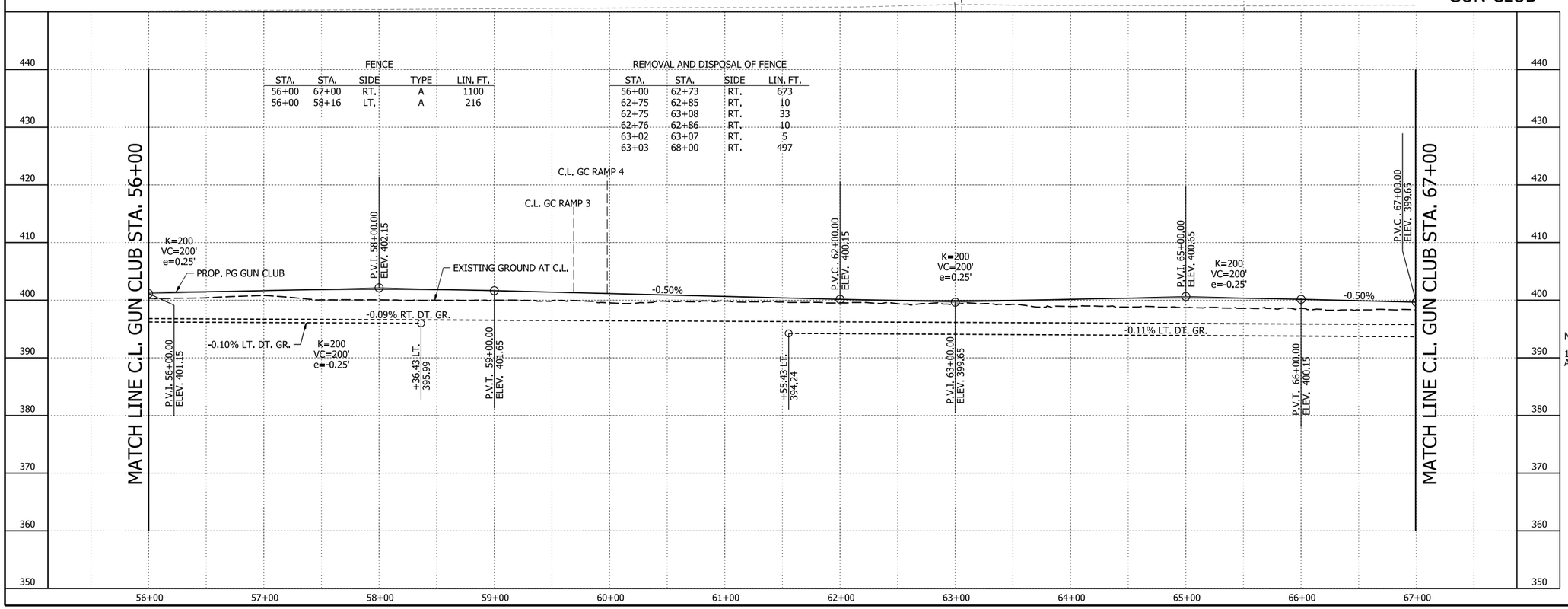
1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA.

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
56+00	67+00	RT.	A	1100
56+00	58+16	LT.	A	216

REMOVAL AND DISPOSAL OF FENCE

STA.	STA.	SIDE	LIN. FT.
56+00	62+73	RT.	673
62+75	62+85	RT.	10
62+75	63+08	RT.	33
62+76	62+86	RT.	10
63+02	63+07	RT.	5
63+03	68+00	RT.	497

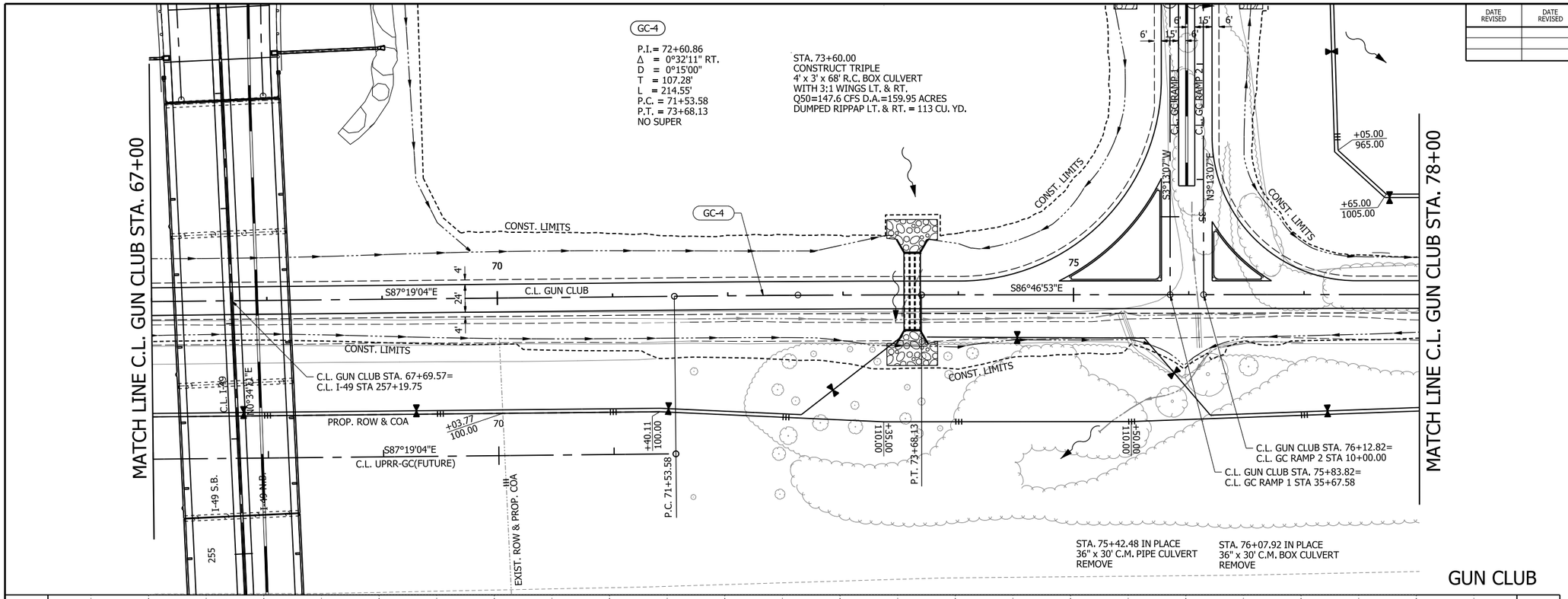


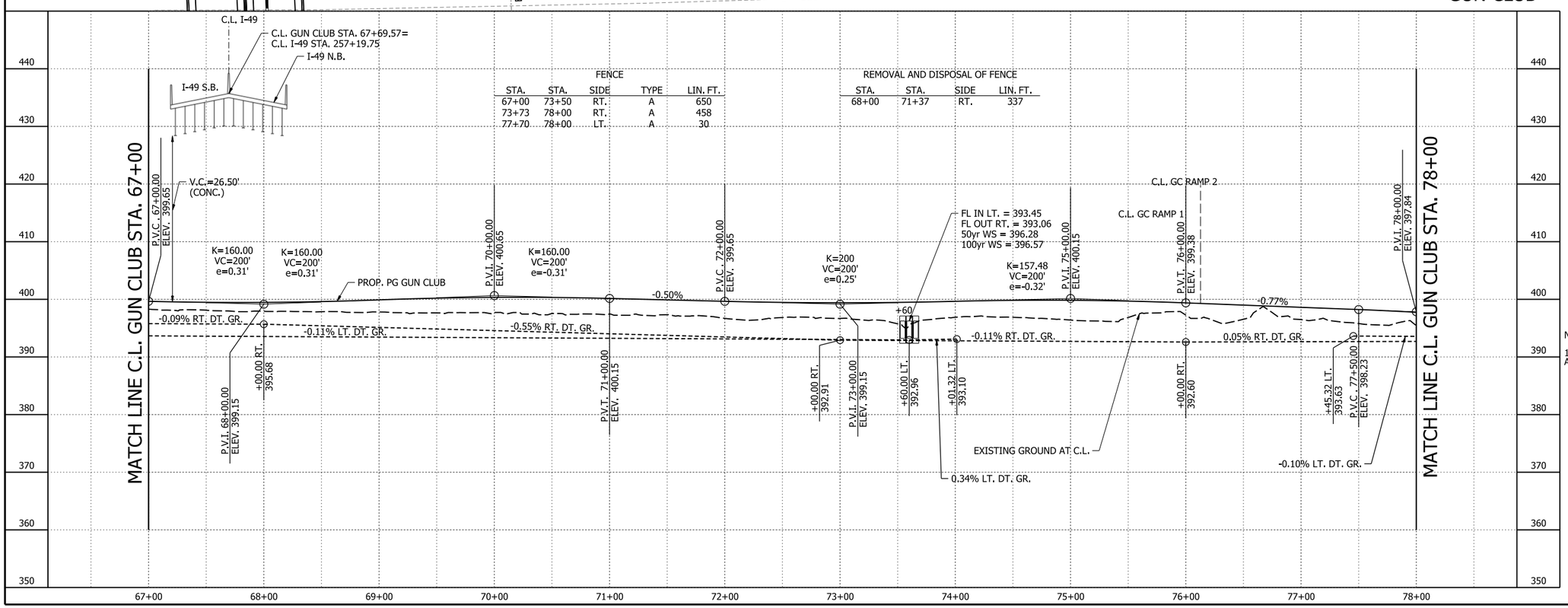
GUN CLUB
PLAN AND PROFILE SHEETS

5/1/2024 2:40:03 PM
R040901_16_PP_008.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	188	809
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION





FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
67+00	73+50	RT.	A	650
73+73	78+00	RT.	A	458
77+70	78+00	LT.	A	30

REMOVAL AND DISPOSAL OF FENCE

STA.	STA.	SIDE	LIN. FT.
68+00	71+37	RT.	337

0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

N

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- OBLITERATION OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA.

GUN CLUB
PLAN AND PROFILE SHEETS

5/1/2024 2:40:04 PM
R040901_16_PP_009.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	189	809
		PLAN AND PROFILE SHEETS				

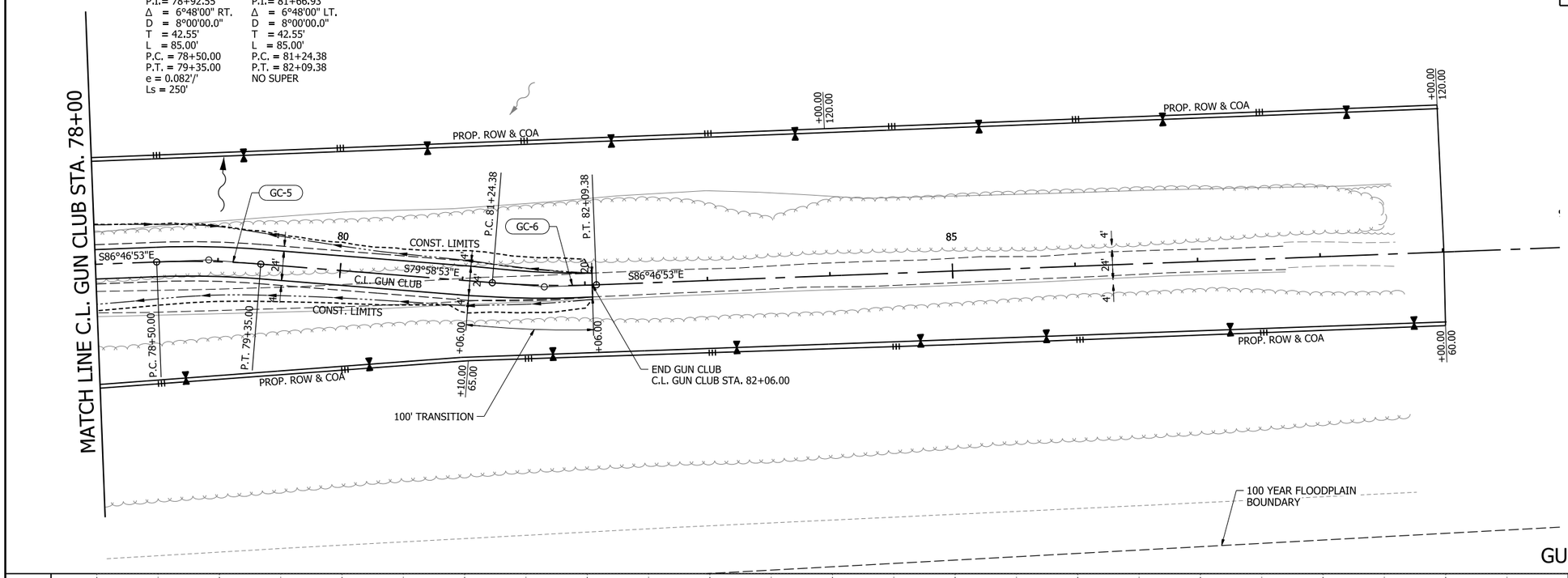
PRELIMINARY
SUBJECT TO REVISION

GC-5

P.I.= 78+92.55
Δ = 6°48'00" RT.
D = 8°00'00.0"
T = 42.55'
L = 85.00'
P.C. = 78+50.00
P.T. = 79+35.00
e = 0.082'/'
Ls = 250'

GC-6

P.I.= 81+66.93
Δ = 6°48'00" LT.
D = 8°00'00.0"
T = 42.55'
L = 85.00'
P.C. = 81+24.38
P.T. = 82+09.38
NO SUPER



0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

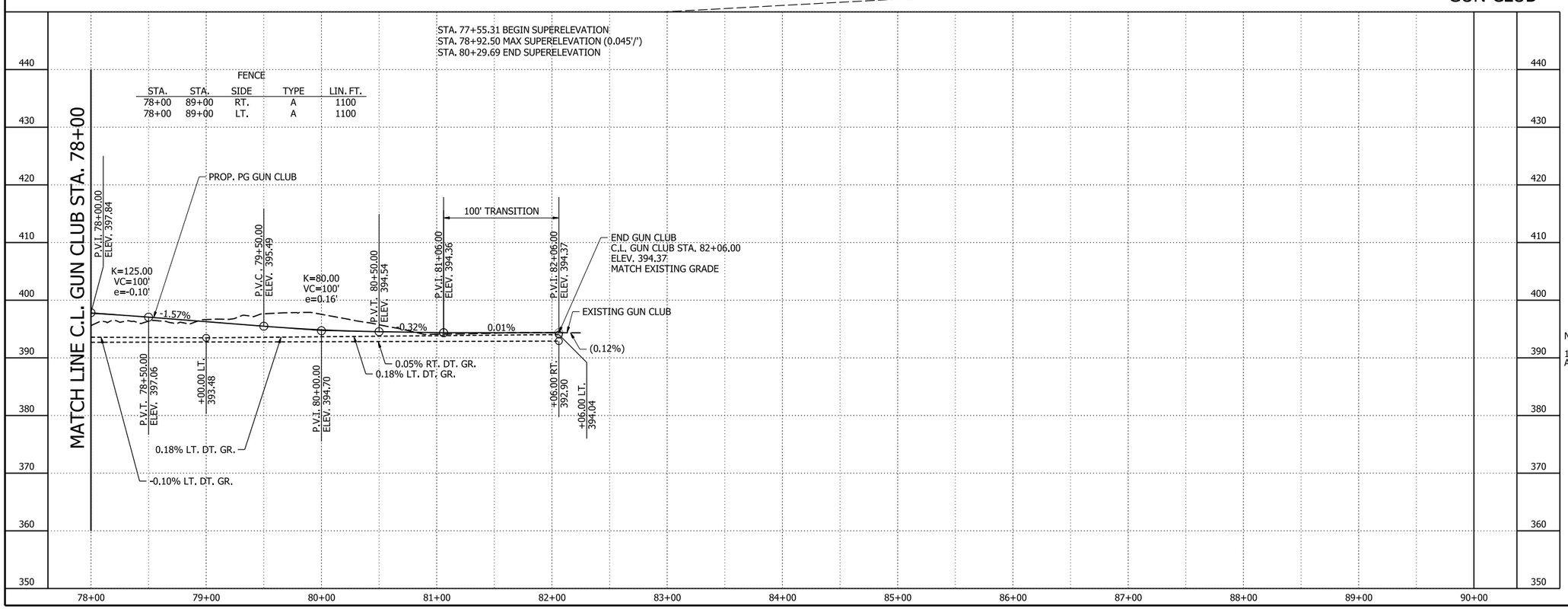
N

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- OBLITERATION OF PAVEMENT

STA. 77+55.31 BEGIN SUPERELEVATION
STA. 78+92.50 MAX SUPERELEVATION (0.045'/')
STA. 80+29.69 END SUPERELEVATION

FENCE				
STA.	STA.	SIDE	TYPE	LIN. FT.
78+00	89+00	RT.	A	1100
78+00	89+00	LT.	A	1100



NOTES:

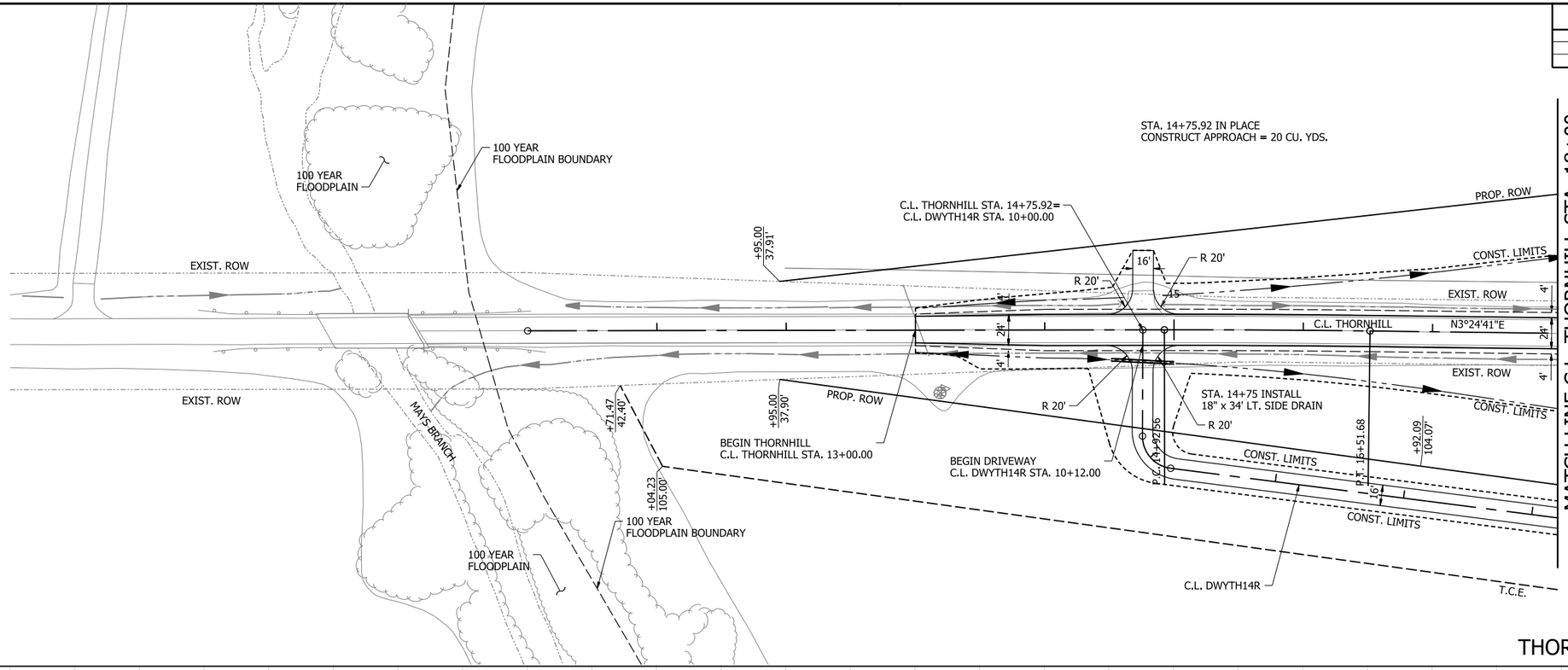
1. REFER TO SURVEY CONTROL DETAILS FOR HORIZONTAL ALIGNMENT AND VERTICAL CONTROL DATA.

GUN CLUB
PLAN AND PROFILE SHEETS

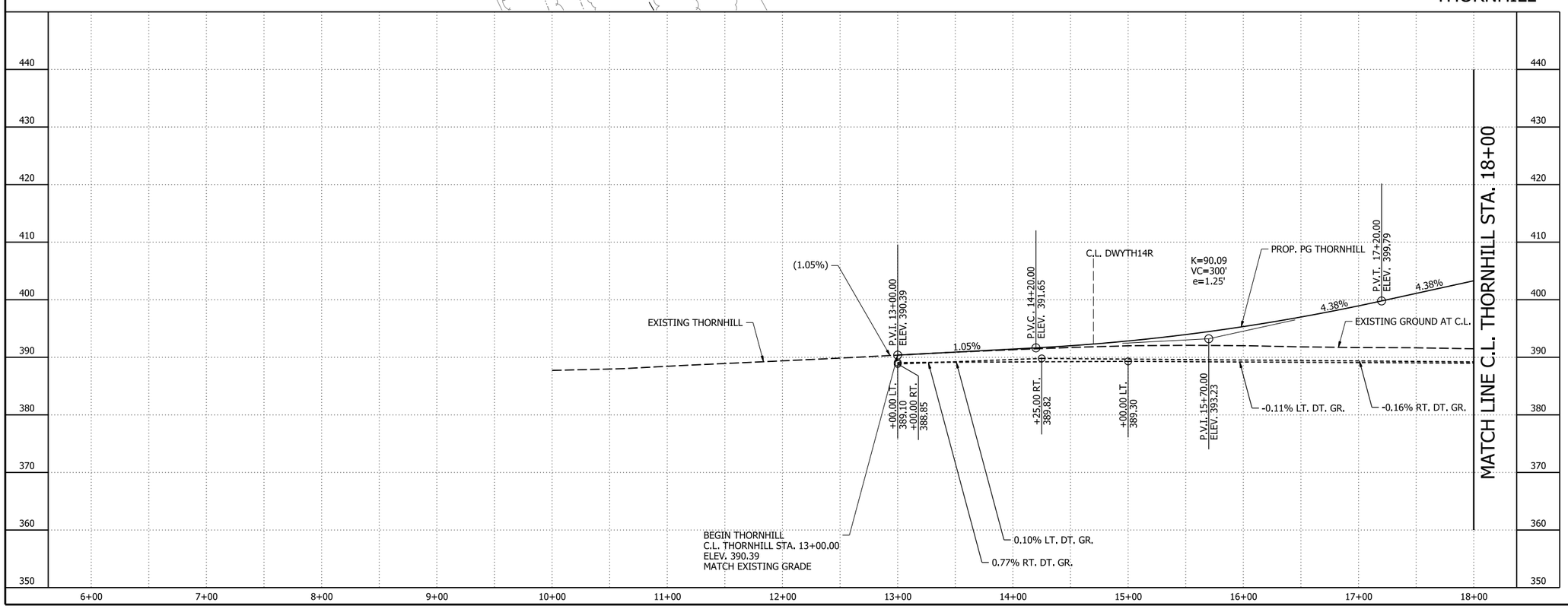
5/1/2024 2:40:06 PM
R040901_16_PP_010.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902	211	525
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



THORNHILL



0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- R&D OF PAVEMENT

NOTES:

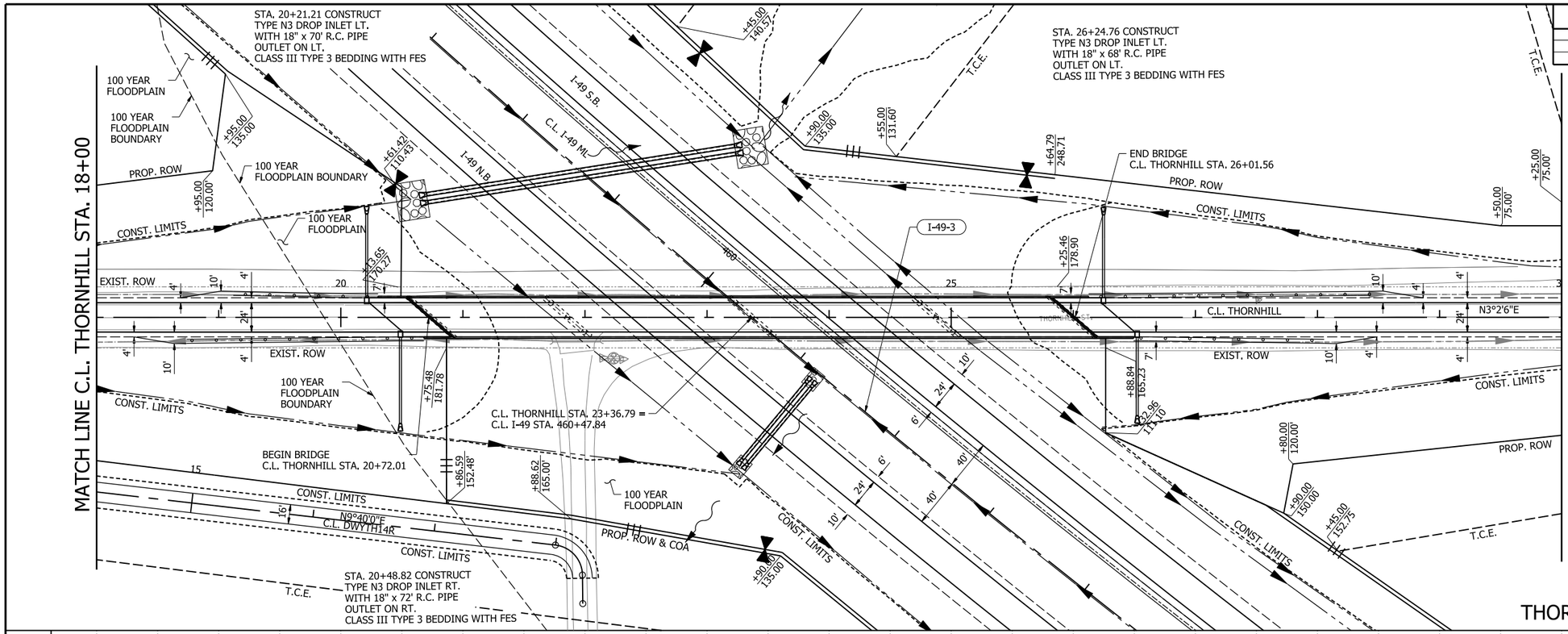
1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

CROSS STREET
PLAN AND PROFILE SHEETS

9/11/2023 10:30:42 AM
R040902_16_PP_016

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902	212	525
		PLAN AND PROFILE SHEETS				

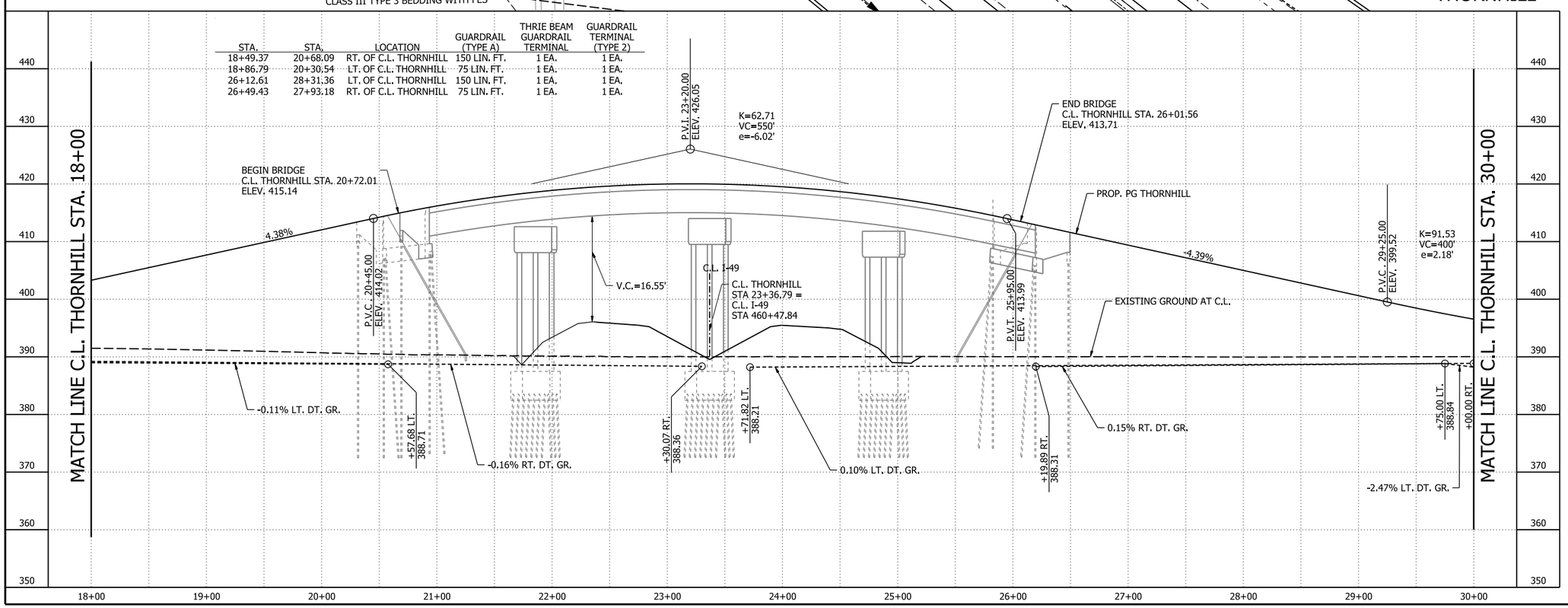
PRELIMINARY
SUBJECT TO REVISION



HORIZ. SCALE IN FEET: 1"=100'

VERT. SCALE IN FEET: 1"=20'

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
18+49.37	20+68.09	RT. OF C.L. THORNHILL	150 LIN. FT.	1 EA.	1 EA.
18+86.79	20+30.54	LT. OF C.L. THORNHILL	75 LIN. FT.	1 EA.	1 EA.
26+12.61	28+31.36	LT. OF C.L. THORNHILL	150 LIN. FT.	1 EA.	1 EA.
26+49.43	27+93.18	RT. OF C.L. THORNHILL	75 LIN. FT.	1 EA.	1 EA.



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- R&D OF PAVEMENT

NOTES:

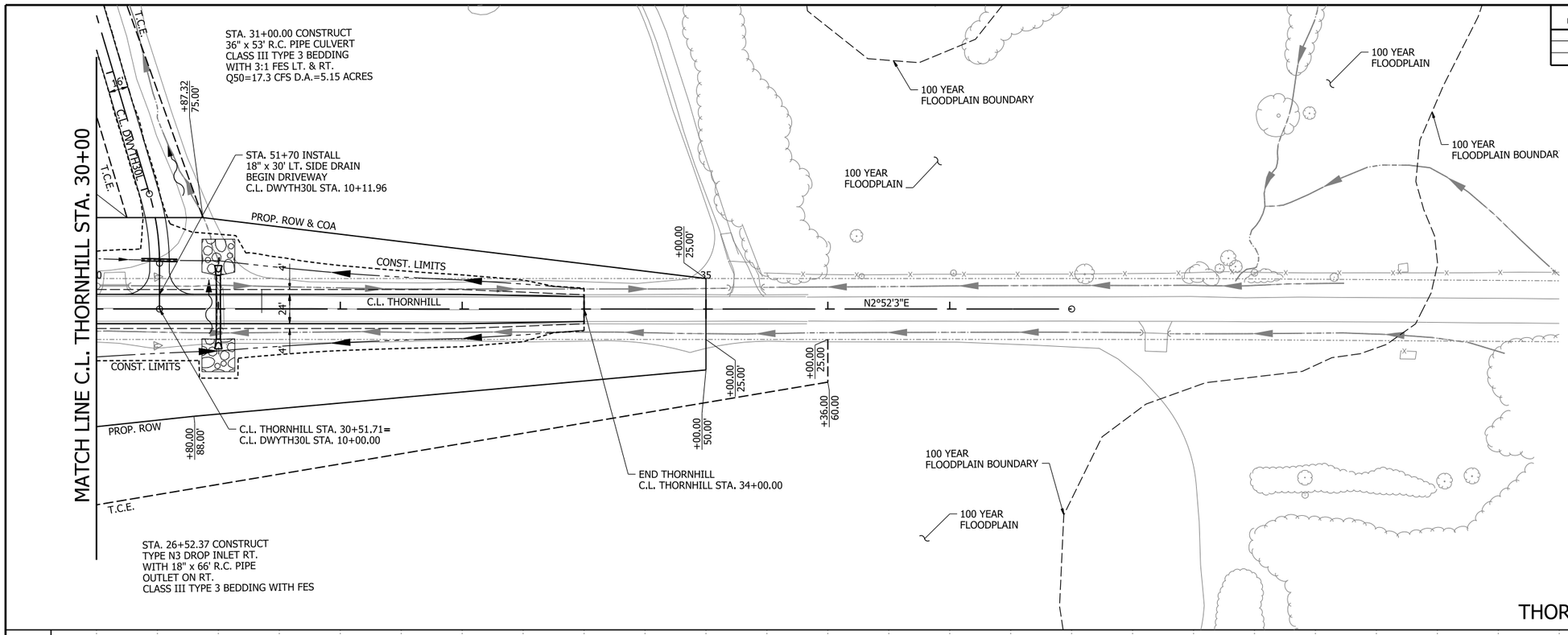
1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

CROSS STREET
PLAN AND PROFILE SHEETS

9/11/2023 10:30:46 AM
R040902_16_PP_017

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902	213	525
		PLAN AND PROFILE SHEETS				

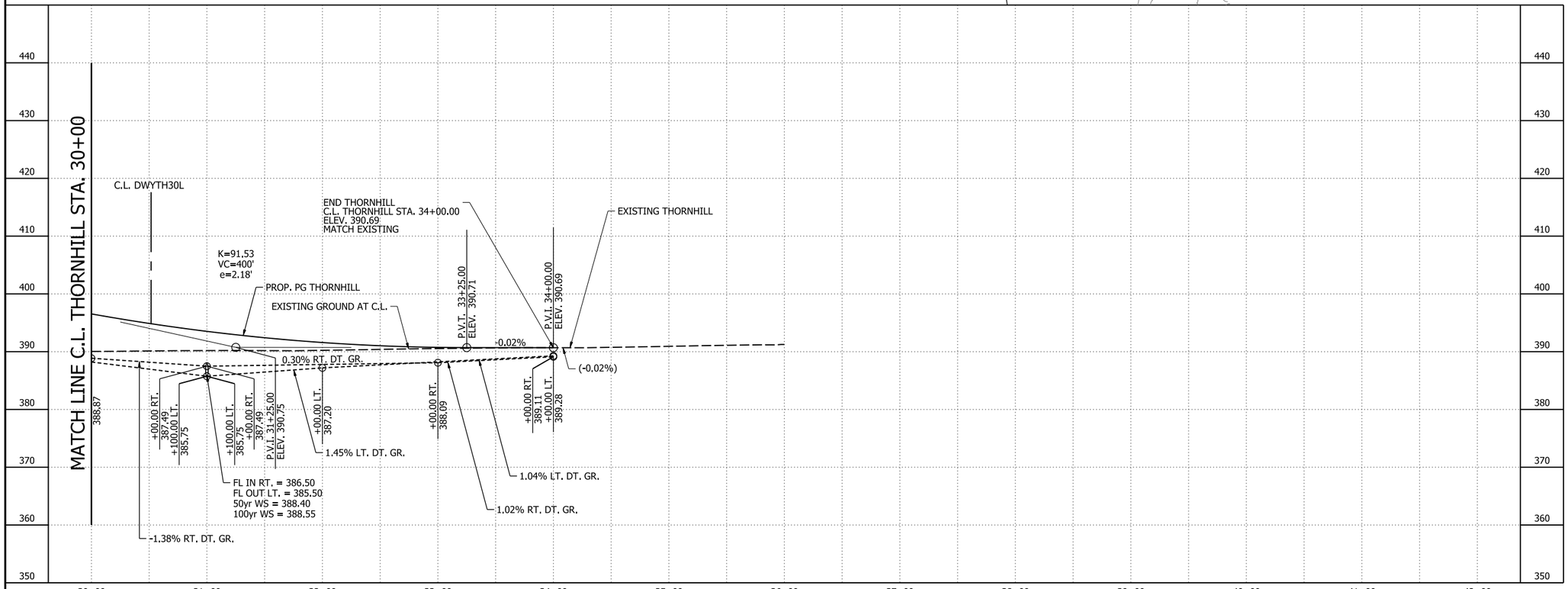
PRELIMINARY
SUBJECT TO REVISION



THORNHILL

0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

CROSS STREET
PLAN AND PROFILE SHEETS

9/11/2023 10:30:53 AM
R040902_16_PP_018

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902	219	525
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION

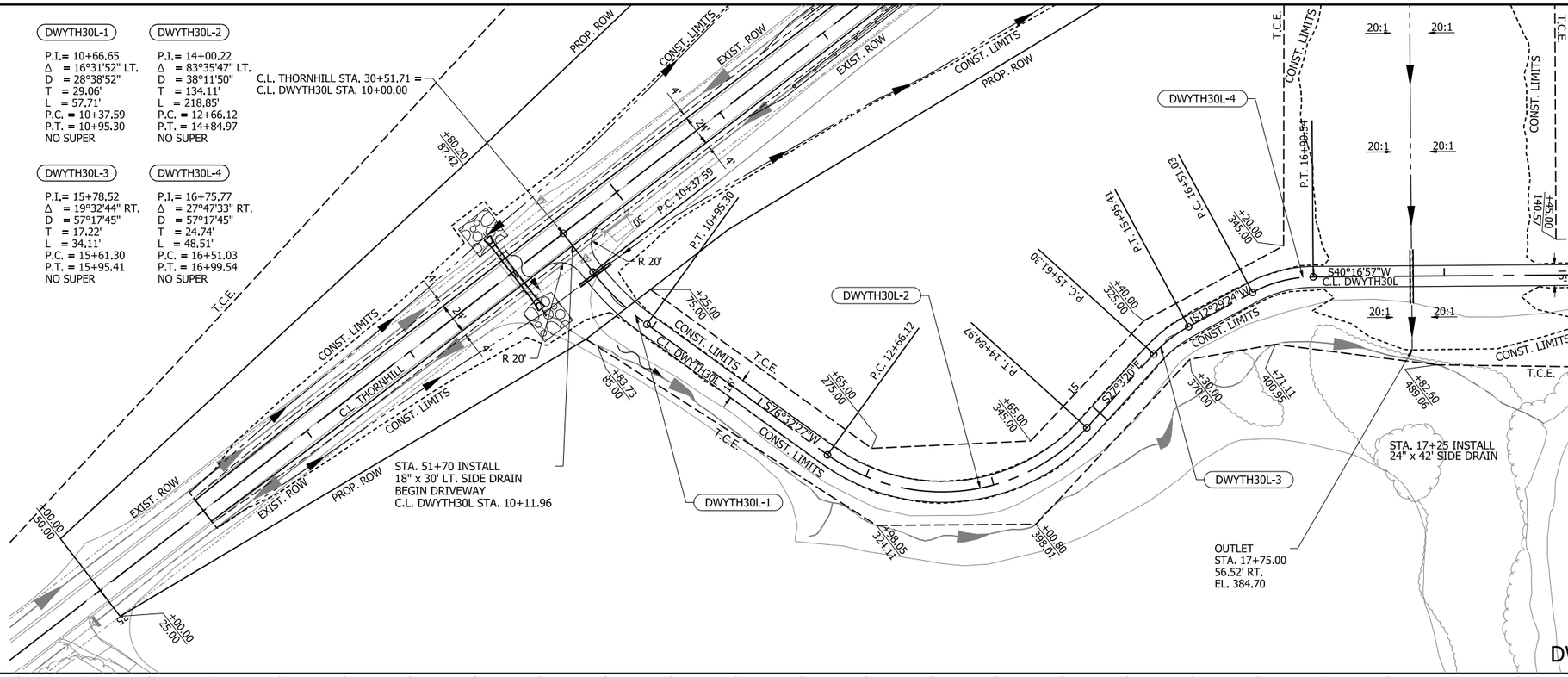
DWYTH30L-1
P.I.= 10+66.65
Δ = 16°31'52" LT.
D = 28°38'52"
T = 29.06'
L = 57.71'
P.C. = 10+37.59
P.T. = 10+95.30
NO SUPER

DWYTH30L-2
P.I.= 14+00.22
Δ = 83°35'47" LT.
D = 38°11'50"
T = 134.11'
L = 218.85'
P.C. = 12+66.12
P.T. = 14+84.97
NO SUPER

C.L. THORNHILL STA. 30+51.71 =
C.L. DWYTH30L STA. 10+00.00

DWYTH30L-3
P.I.= 15+78.52
Δ = 19°32'44" RT.
D = 57°17'45"
T = 17.22'
L = 34.11'
P.C. = 15+61.30
P.T. = 15+95.41
NO SUPER

DWYTH30L-4
P.I.= 16+75.77
Δ = 27°47'33" RT.
D = 57°17'45"
T = 24.74'
L = 48.51'
P.C. = 16+51.03
P.T. = 16+99.54
NO SUPER



0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

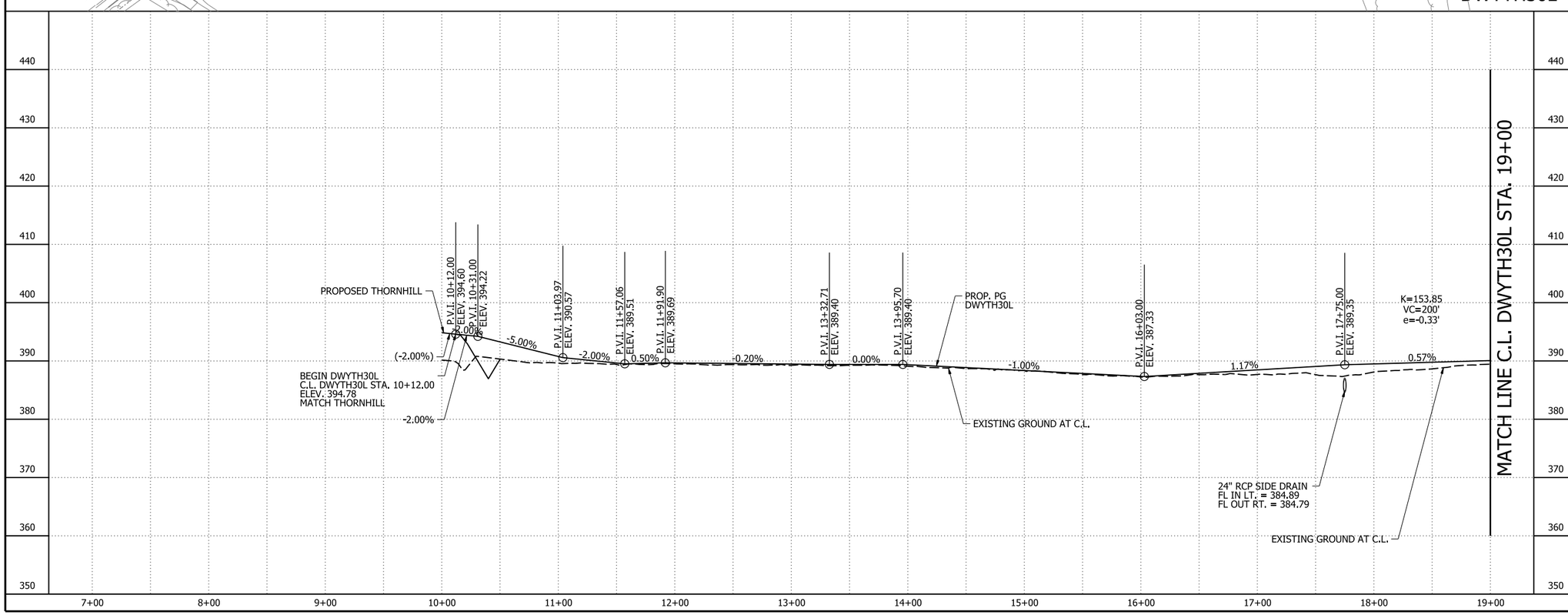
0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

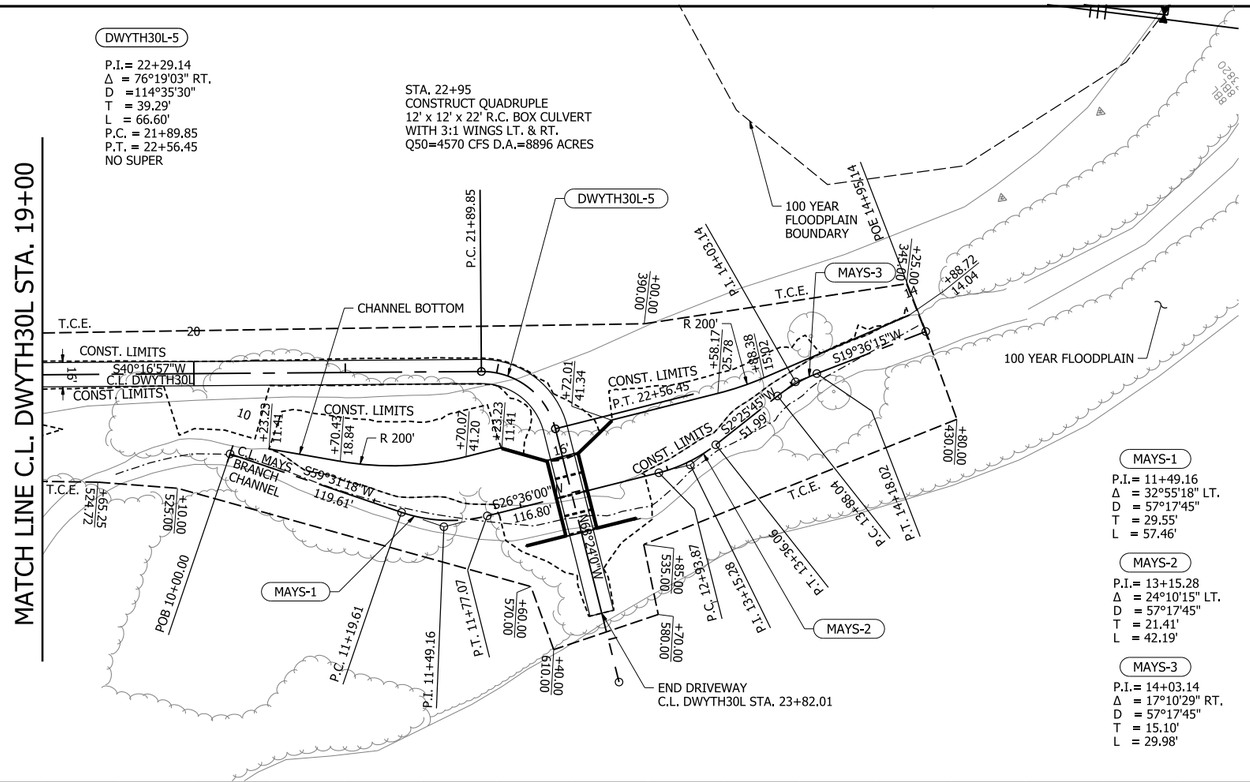


DRIVEWAY
PLAN AND PROFILE SHEETS

9/11/2023 10:31:49 AM
R040902_16_PP_024

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902	220	525
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



MAYS-1
P.I.= 11+49.16
Δ = 32°55'18" LT.
D = 57°17'45"
T = 29.55'
L = 57.46'

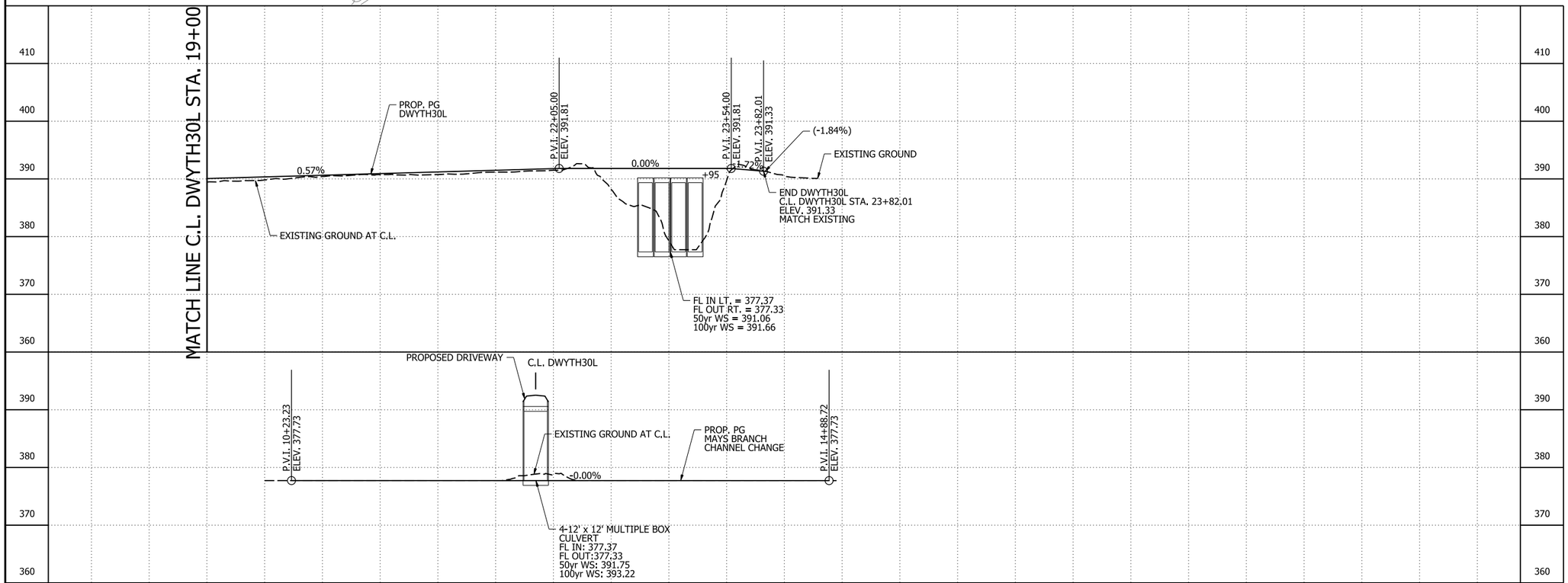
MAYS-2
P.I.= 13+15.28
Δ = 24°10'15" LT.
D = 57°17'45"
T = 21.41'
L = 42.19'

MAYS-3
P.I.= 14+03.14
Δ = 17°10'29" RT.
D = 57°17'45"
T = 15.10'
L = 29.98'

0 50 100 150 200
HORIZ. SCALE IN FEET: 1"=100'

0 10 20 30 40
VERT. SCALE IN FEET: 1"=20'

DWYTH30L



LEGEND

- TRAFFIC BARRIER
- WIRE FENCE
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

DRIVEWAY
PLAN AND PROFILE SHEETS

9/11/2023 10:31:55 AM
R040902_16_PP_025

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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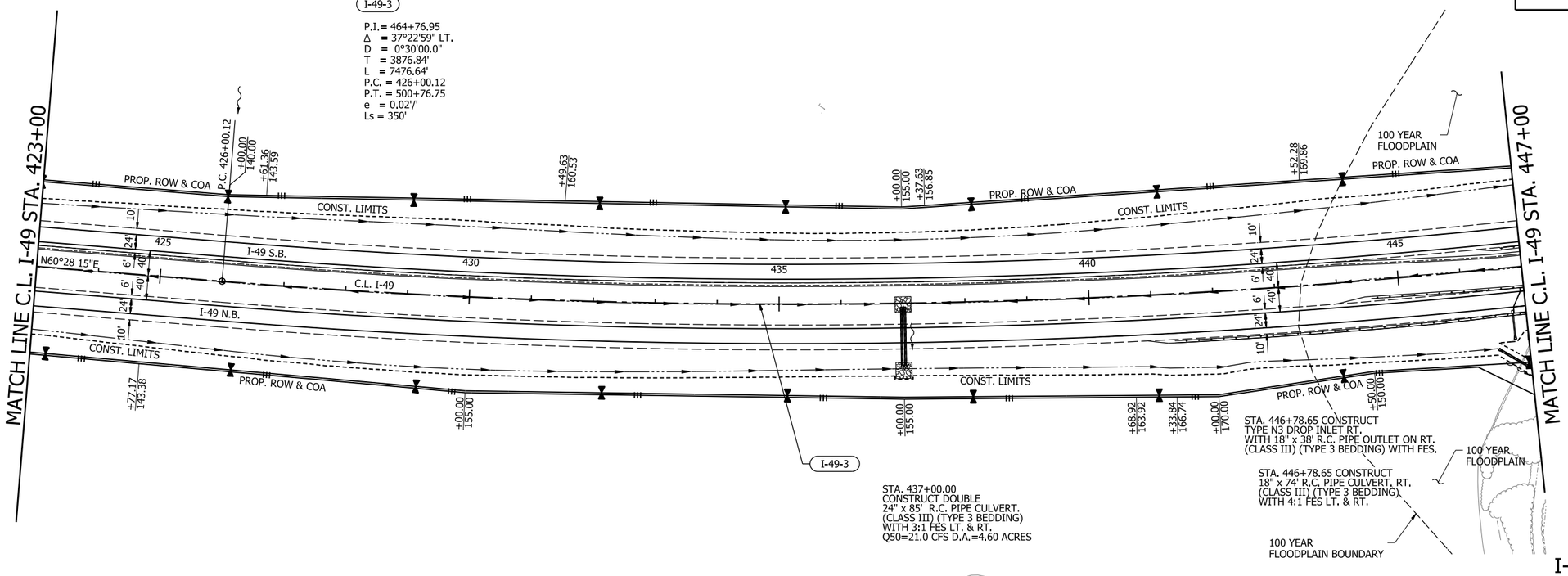
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
423+00.00	447+00.00	LT.	2400	6'-0"	1600.00

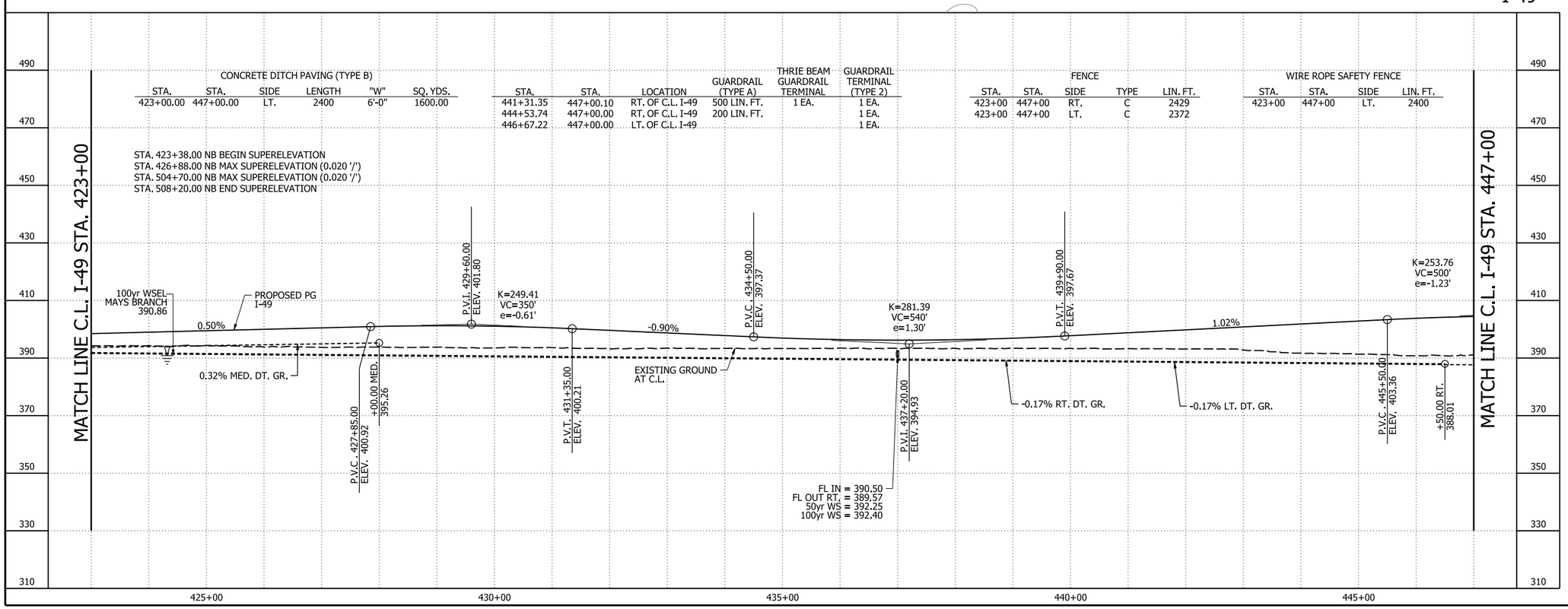
STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
441+31.35	447+00.10	RT. OF C.L. I-49	500 LIN. FT.	1 EA.	1 EA.
444+53.74	447+00.00	RT. OF C.L. I-49	200 LIN. FT.		1 EA.
446+67.22	447+00.00	LT. OF C.L. I-49			1 EA.

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
423+00	447+00	RT.	C	2429
423+00	447+00	LT.	C	2372

WIRE ROPE SAFETY FENCE

STA.	STA.	SIDE	LIN. FT.
423+00	447+00	LT.	2400

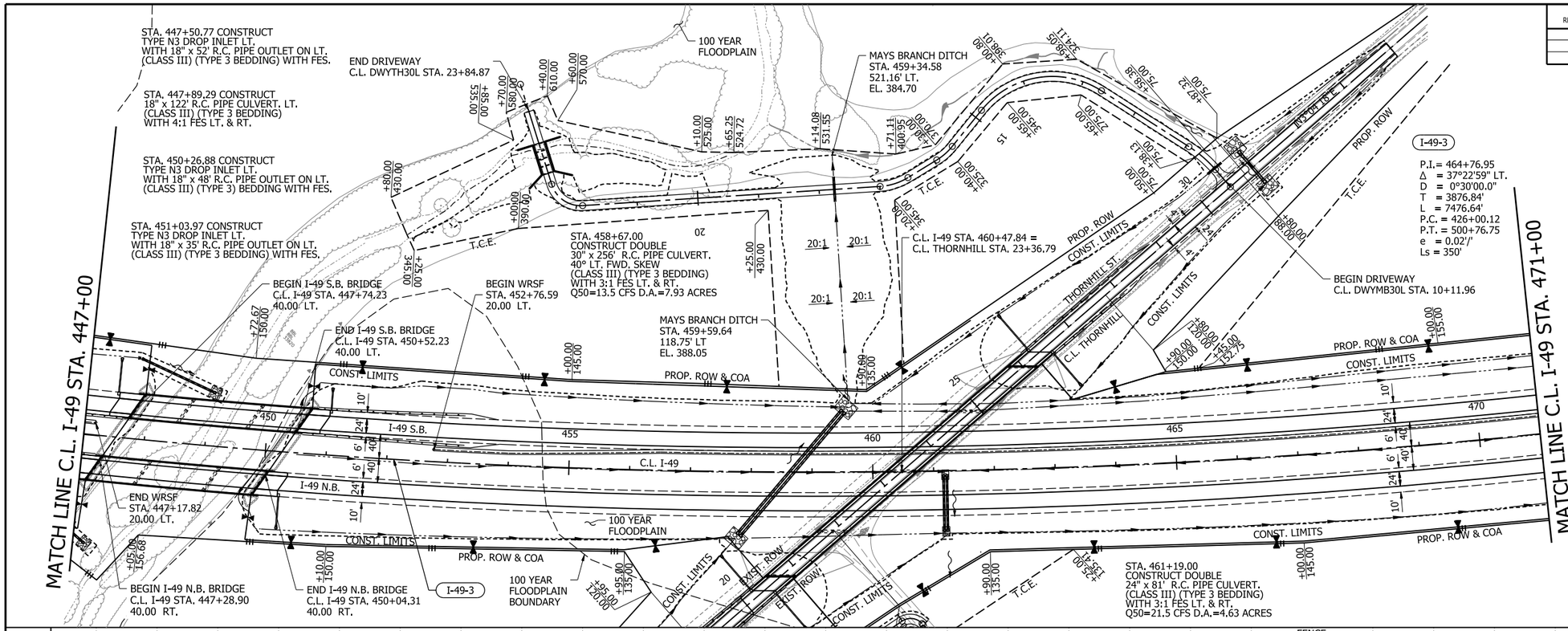


MAIN LANE
PLAN AND PROFILE SHEETS

9/11/2023 10:23:45 AM
R040902_12_PP_008.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902	171	525
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

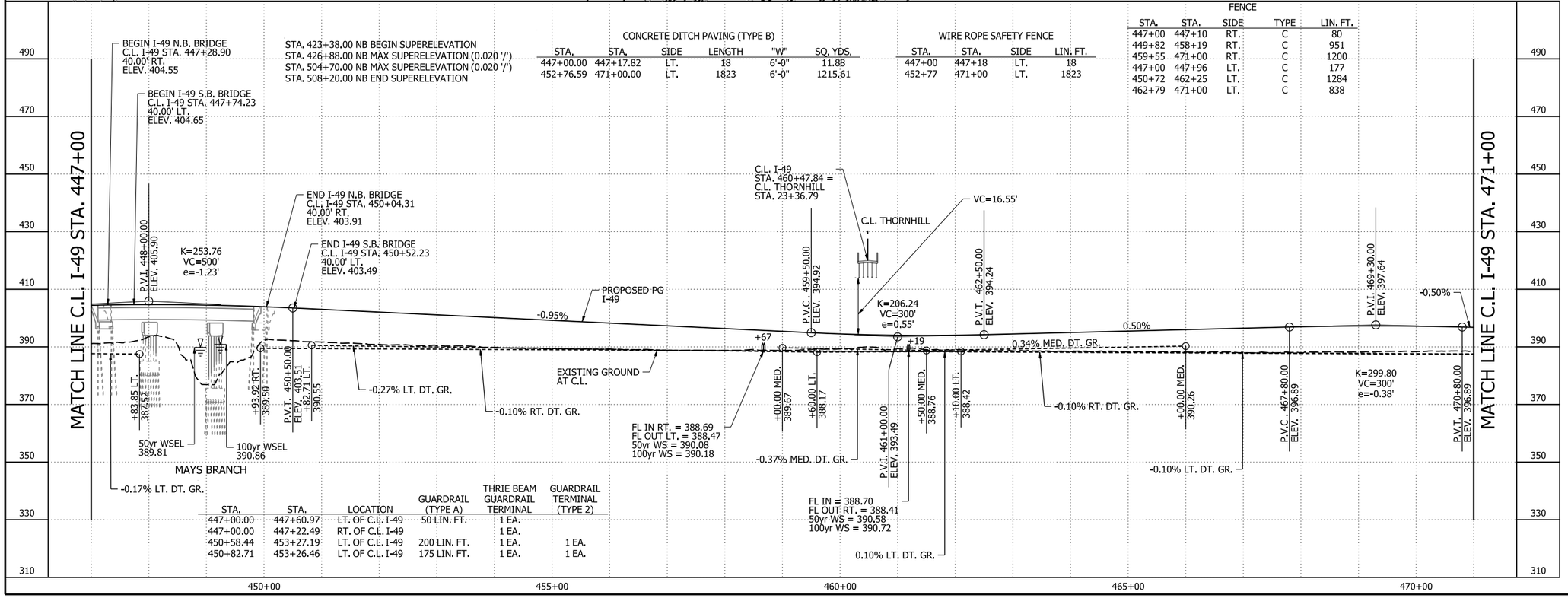
0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- RIPRAP
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.



CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
447+00.00	447+17.82	LT.	18	6'-0"	11.88
452+76.59	471+00.00	LT.	1823	6'-0"	1215.61

WIRE ROPE SAFETY FENCE

STA.	STA.	SIDE	LIN. FT.
447+00	447+18	LT.	18
452+77	471+00	LT.	1823

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
447+00	447+10	RT.	C	80
449+82	458+19	RT.	C	951
459+55	471+00	RT.	C	1200
447+00	447+96	LT.	C	177
450+72	462+25	LT.	C	1284
462+79	471+00	LT.	C	838

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
447+00.00	447+60.97	LT. OF C.L. I-49	50 LIN. FT.	1 EA.	
447+00.00	447+22.49	RT. OF C.L. I-49		1 EA.	
450+58.44	453+27.19	LT. OF C.L. I-49	200 LIN. FT.	1 EA.	1 EA.
450+82.71	453+26.46	LT. OF C.L. I-49	175 LIN. FT.	1 EA.	1 EA.

MAIN LANE
PLAN AND PROFILE SHEETS

9/11/2023 10:23:56 AM
R040902_12_PP_009.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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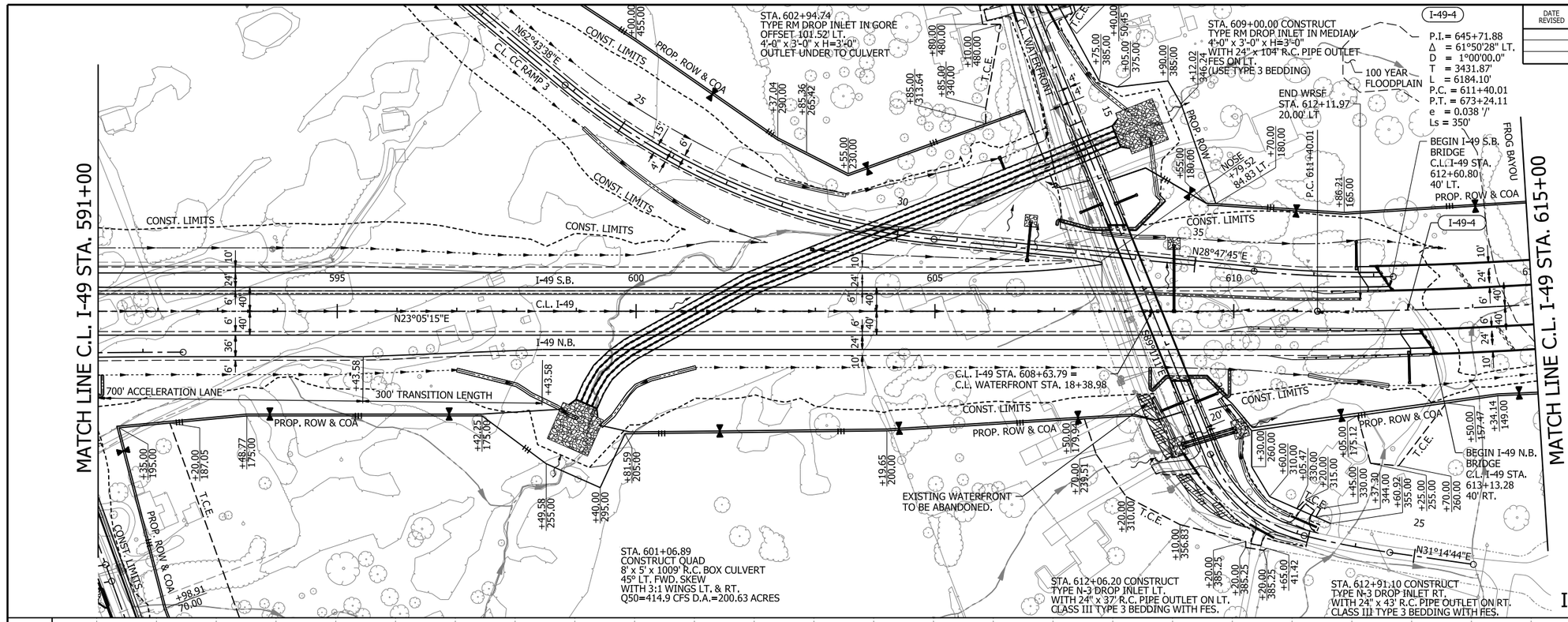
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

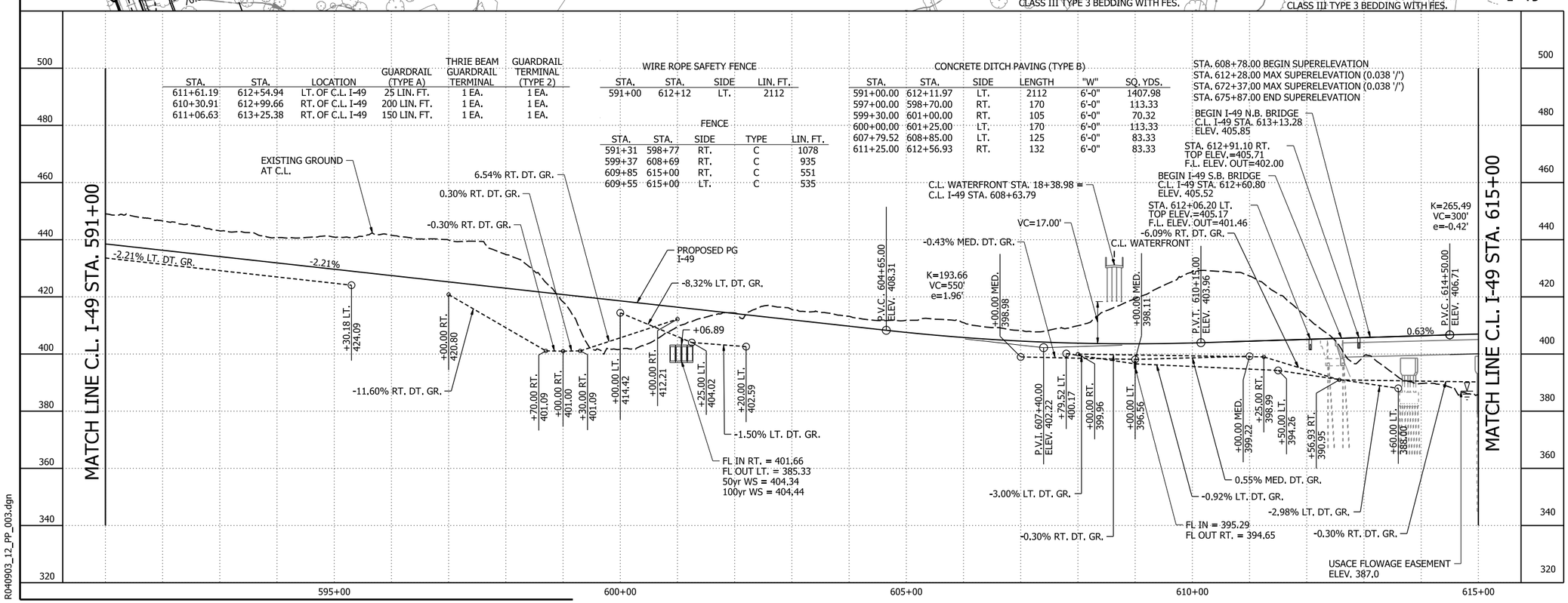
0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.



STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	THRIE BEAM GUARDRAIL TERMINAL	GUARDRAIL TERMINAL (TYPE 2)
611+61.19	612+54.94	LT. OF C.L. I-49	25 LIN. FT.	1 EA.	1 EA.
610+30.91	612+99.66	RT. OF C.L. I-49	200 LIN. FT.	1 EA.	1 EA.
611+06.63	613+25.38	RT. OF C.L. I-49	150 LIN. FT.	1 EA.	1 EA.

WIRE ROPE SAFETY FENCE

STA.	STA.	SIDE	LIN. FT.
591+00	612+12	LT.	2112

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
591+31	598+77	RT.	C	1078
599+37	608+69	RT.	C	935
609+85	615+00	RT.	C	551
609+55	615+00	LT.	C	535

CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
591+00.00	612+11.97	LT.	2112	6'-0"	1407.98
597+00.00	598+70.00	RT.	170	6'-0"	113.33
599+30.00	601+00.00	RT.	105	6'-0"	70.32
600+00.00	601+25.00	LT.	170	6'-0"	113.33
607+79.52	608+85.00	LT.	125	6'-0"	83.33
611+25.00	612+56.93	RT.	132	6'-0"	83.33

I-49

MAIN LANE
PLAN AND PROFILE SHEETS

2/29/2024 1:38:43 PM
R040903_12_PP_003.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
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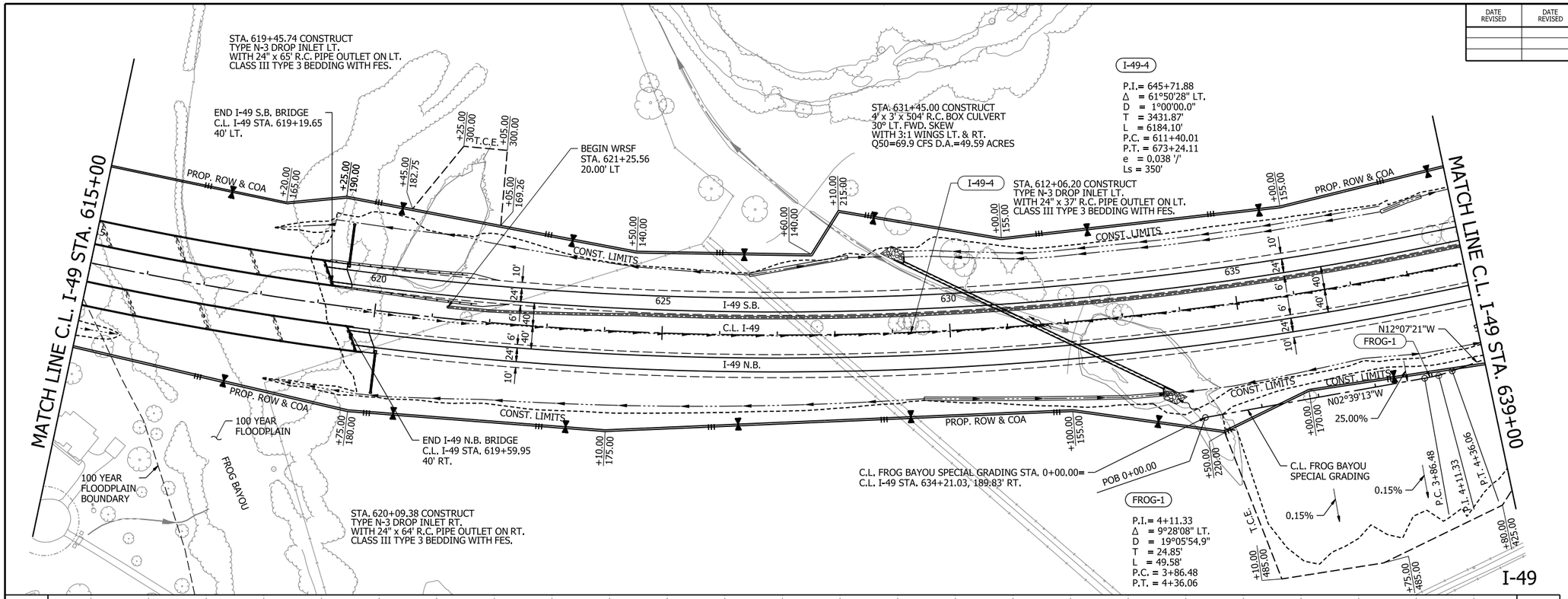
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400
HORIZ. SCALE IN FEET: 1"=200'

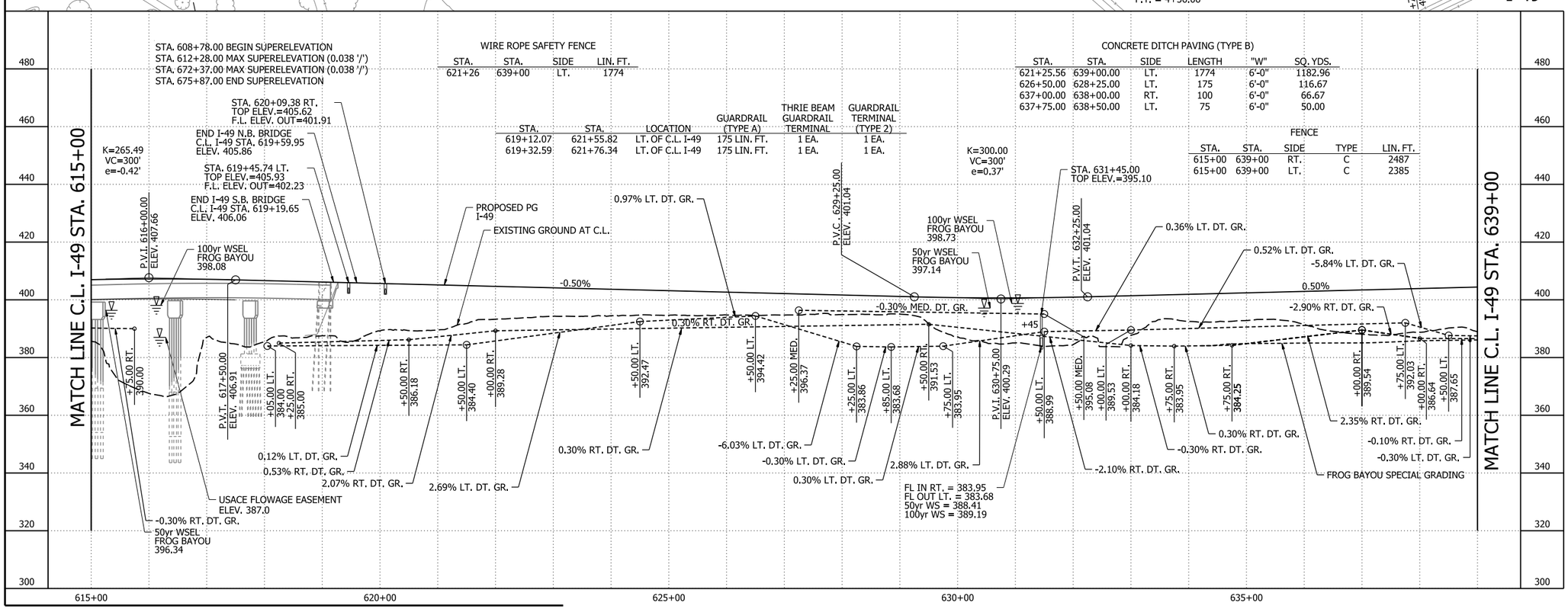
0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.

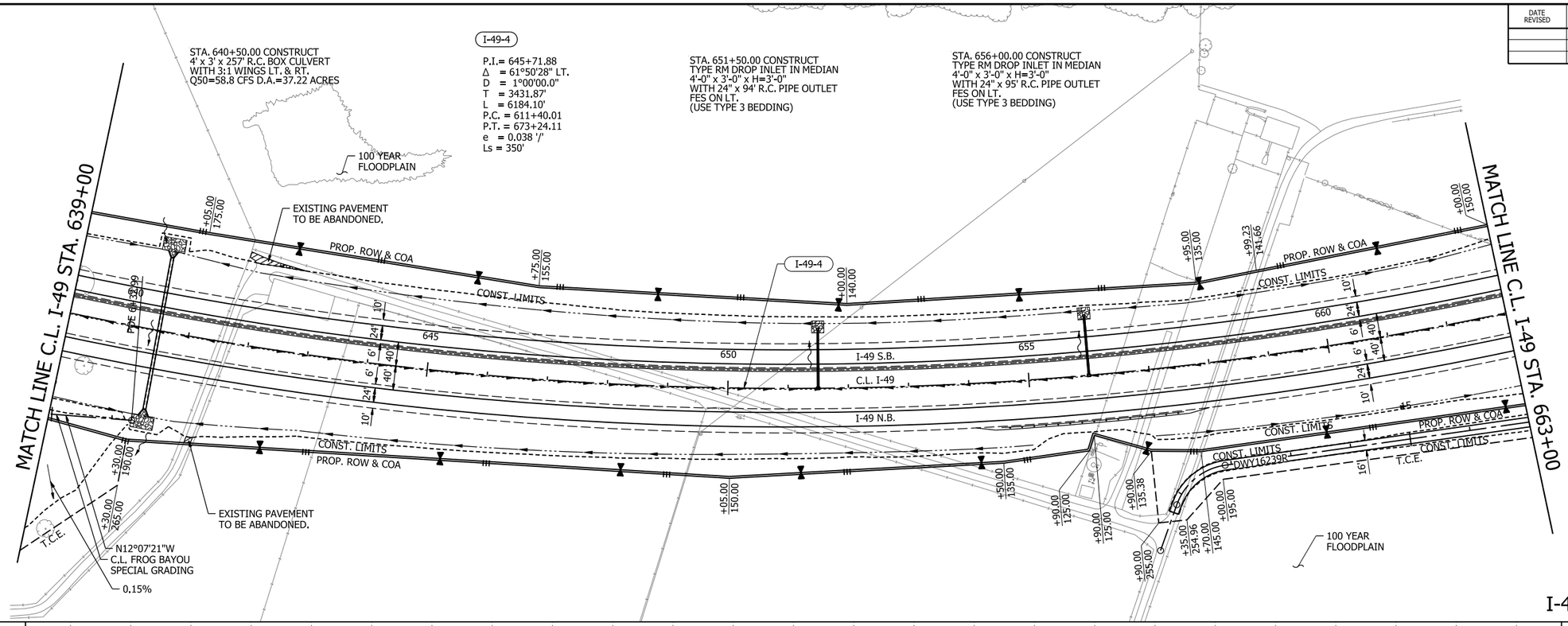


MAIN LANE
PLAN AND PROFILE SHEETS

2/29/2024 1:38:51 PM
R040903_12_PP_004.dgn

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040903	166	449
		PLAN AND PROFILE SHEETS				

PRELIMINARY
SUBJECT TO REVISION



HORIZ. SCALE IN FEET: 1"=200'

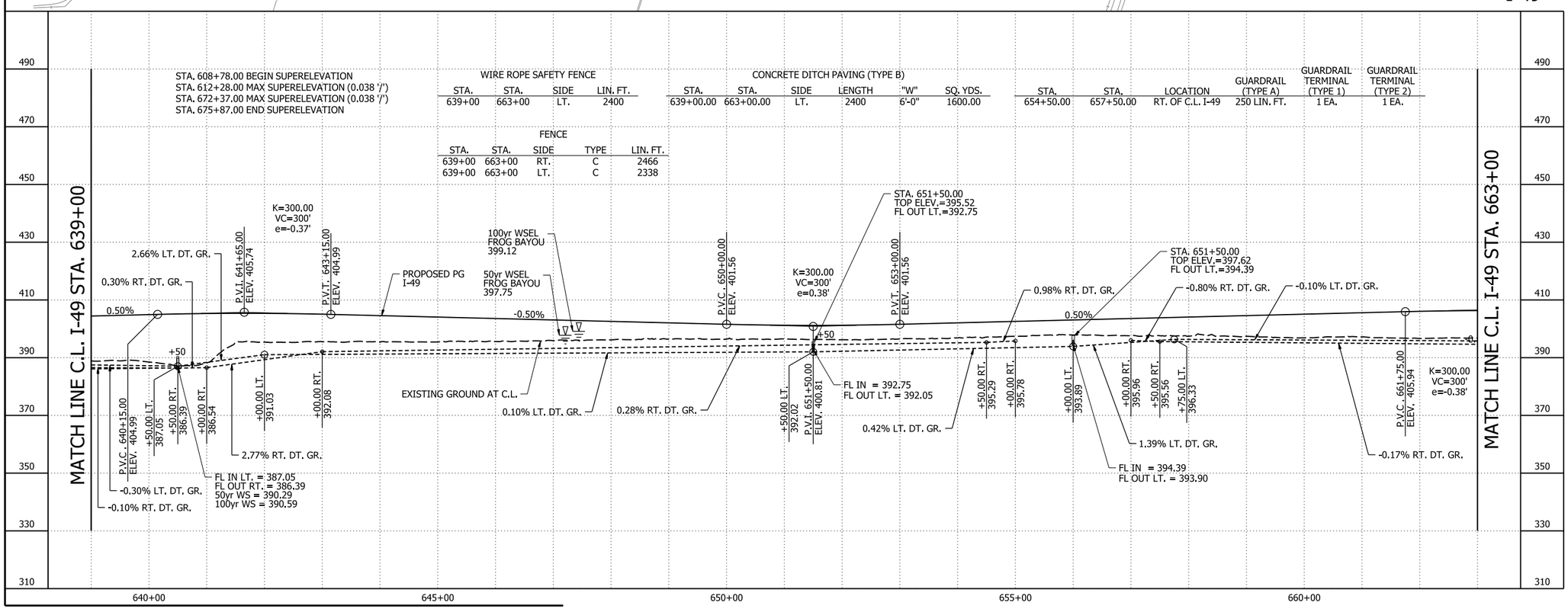
VERT. SCALE IN FEET: 1"=40'

LEGEND

- CONCRETE BARRIER
- WIRE FENCE (WRSF)
- GUARDRAIL
- I-49 CONSTRUCTION LIMITS
- CONTROL OF ACCESS (COA)
- PROPOSED FENCE
- EXISTING RIGHT OF WAY
- CENTERLINE/ BASELINE
- XXXX - X HORIZONTAL CURVE NO.
- DRAINAGE STRUCTURE
- STANDARD DITCH GRADE
- SPECIAL DITCH PROFILE
- RIPRAP
- ROCK FILL
- R&D OF PAVEMENT

NOTES:

1. REFER TO SURVEY CONTROL DETAILS SHEETS FOR HORIZONTAL ALIGNMENT DATA.



WIRE ROPE SAFETY FENCE

STA.	STA.	SIDE	LIN. FT.
639+00	663+00	LT.	2400

FENCE

STA.	STA.	SIDE	TYPE	LIN. FT.
639+00	663+00	RT.	C	2466
639+00	663+00	LT.	C	2338

CONCRETE DITCH PAVING (TYPE B)

STA.	STA.	SIDE	LENGTH	"W"	SQ. YDS.
639+00.00	663+00.00	LT.	2400	6'-0"	1600.00

STA.	STA.	LOCATION	GUARDRAIL (TYPE A)	GUARDRAIL TERMINAL (TYPE 1)	GUARDRAIL TERMINAL (TYPE 2)
654+50.00	657+50.00	RT. OF C.L. I-49	250 LIN. FT.	1 EA.	1 EA.

MAIN LANE
PLAN AND PROFILE SHEETS

3/10/2024 2:19:14 PM
R040903_12_PP_005.dgn

Section 408 Summary Report

Appendix B2

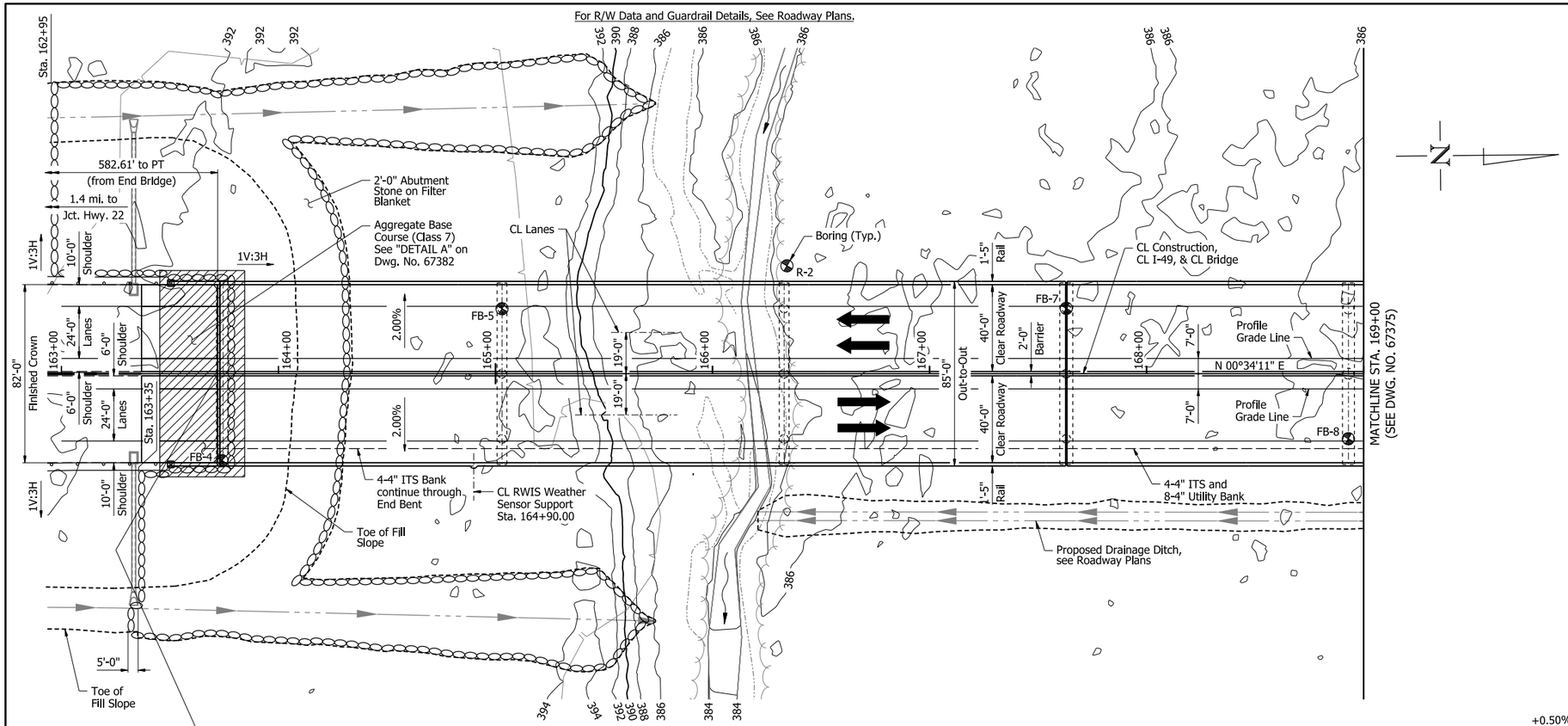
Preliminary Bridge Layouts

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	314	809
		07684 - BRIDGE LAYOUTS - 67374				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

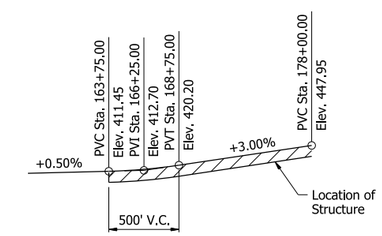
Notes:
Use Type F Approach Gutters & Type F Approach Slab at beginning of bridge.

For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of RWIS Weather Sensor Support, see Dwg.No. 67686 and ITS Plans.



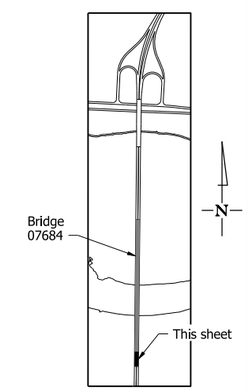
VERTICAL ALIGNMENT DATA

(Stations are along CL I-49, Elevations are along Profile Grade Line)

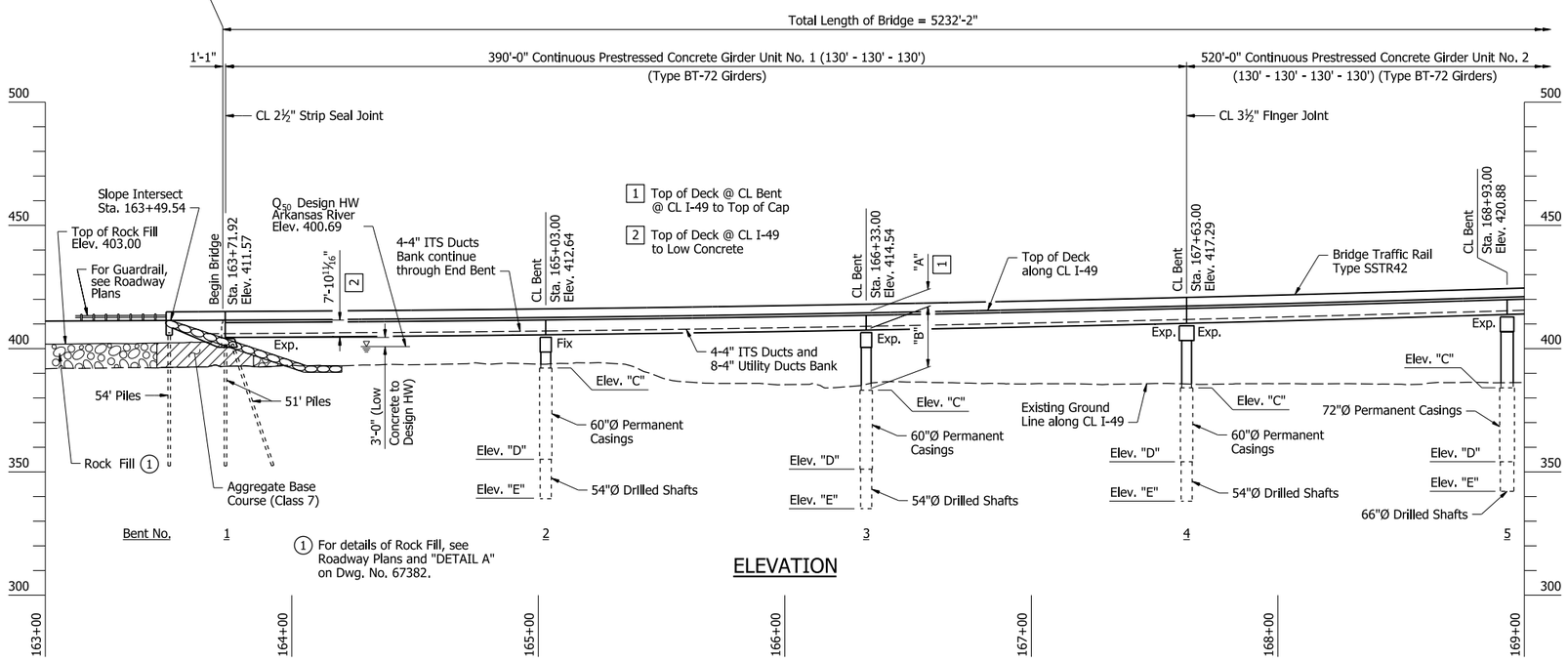
Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 2	8'-5⅛"	12'-2½"	392.00	355.00	339.00
Bent No. 3	8'-8⅜"	22'-10⅜"	383.00	351.00	335.00
Bent No. 4	8'-11"	24'-4½"	384.00	354.00	338.00
Bent No. 5	8'-8"	28'-2½"	384.00	354.00	342.00



SITE PLAN
No Scale



ELEVATION

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ALTERNATE NO. 1
SHEET 1 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/7/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090111_l1.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67374

PRINT DATE: 4/10/2024

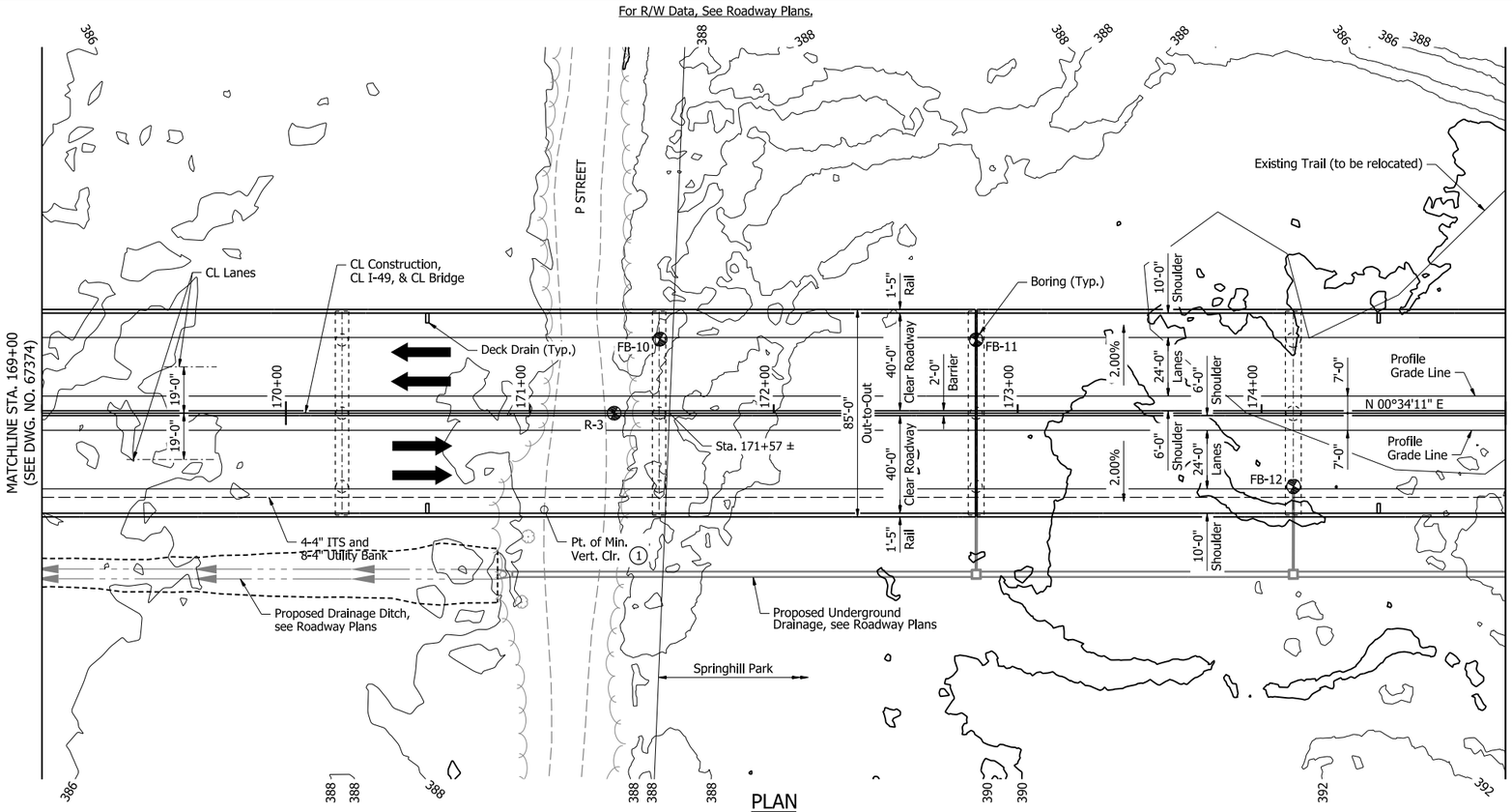
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	315	809
		07684 - BRIDGE LAYOUTS - 67375				

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.



PLAN

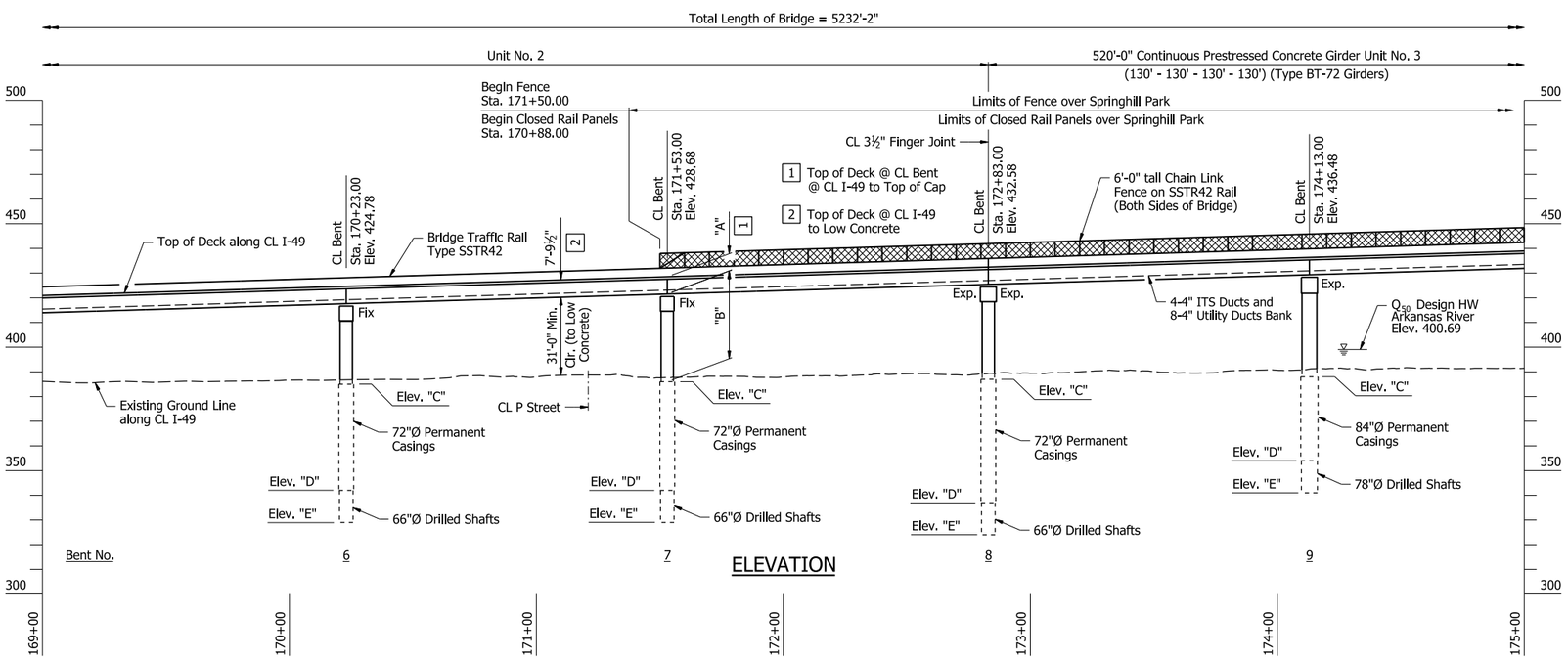
1 Sta. 171+05.92, Offset 39.38' Rt.

VESSEL COLLISION FORCES

BENT NO.	FORCES (KIPS)	ELEVATION (FEET)
13-15	3100	380.00

DRIFT BARGE COLLISION FORCES

BENT NO.	FORCES (KIPS)	ELEVATION (FEET)
6-11 & 19-32	300	413.00
12-16	1410	413.00
17-18	600	413.00

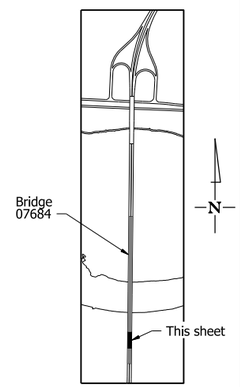


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 6	8'-4¼"	31'-5⅛"	385.00	342.00	329.00
Bent No. 7	8'-4¼"	34'-4"	386.00	342.00	329.00
Bent No. 8	8'-10"	36'-9"	387.00	337.00	324.00
Bent No. 9	8'-7⅛"	39'-10⅞"	388.00	354.00	341.00



SITE PLAN
No Scale

ALTERNATE NO. 1
SHEET 2 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

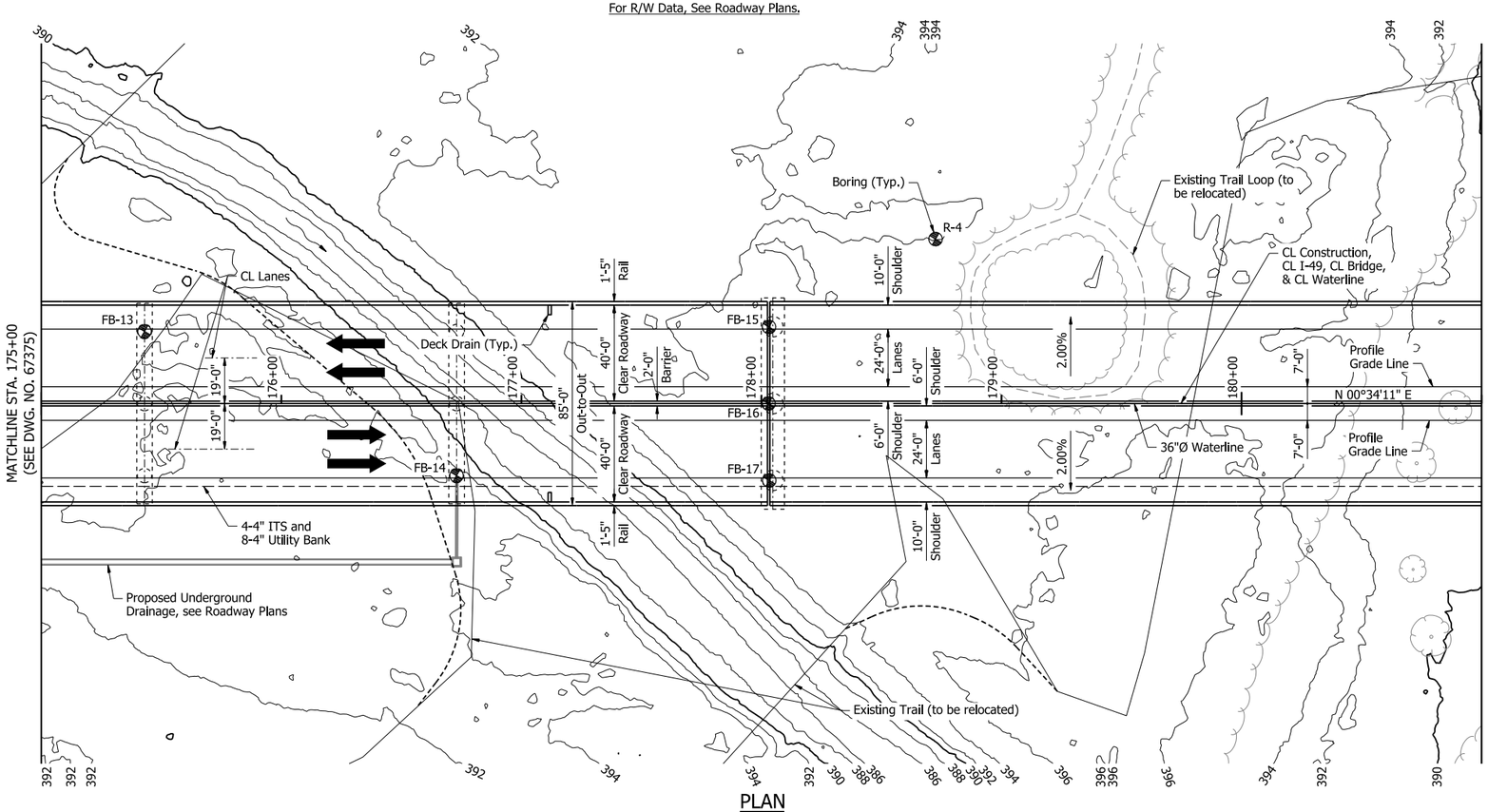
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 6/14/22 FILENAME: b04090111_l2.dgn
CHECKED BY: CPS DATE: 12/7/23 SCALE: 1" = 30'-0"
DESIGNED BY: NAM DATE: 5/15/22
BRIDGE NO. 07684 DRAWING NO. 67375

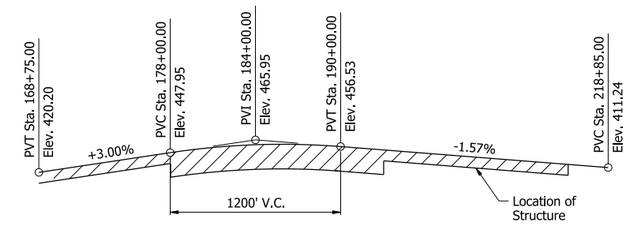
PRINT DATE: 4/10/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	316	809
		07684 - BRIDGE LAYOUTS - 67376				

For R/W Data, See Roadway Plans.



PLAN



VERTICAL ALIGNMENT DATA

(Stations are along CL I-49, Elevations are along Profile Grade Line)

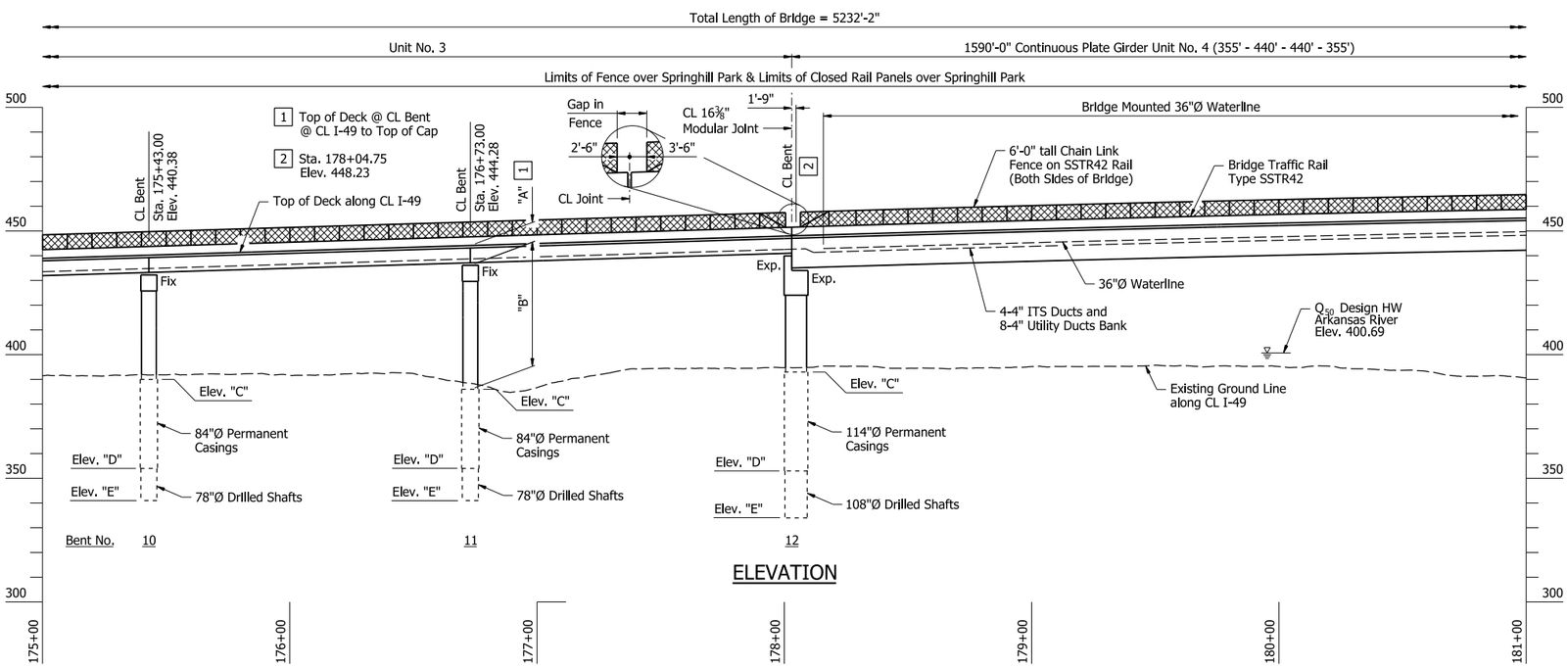
Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of 36"Ø Waterline, see "DETAILS OF INSPECTION ACCESS AND WATERLINE SUPPORTS" and Waterline Plans.

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.

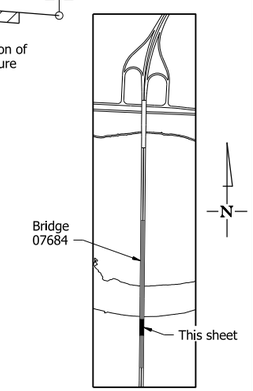


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 10	8'-4½"	42'-0⅛"	390.00	354.00	341.00
Bent No. 11	8'-4½"	49'-10⅞"	386.00	354.00	341.00
Bent No. 12	15'-0⅜"	40'-2⅜"	393.00	352.00	329.50



SITE PLAN
No Scale

ALTERNATE NO. 1
SHEET 3 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/7/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090111_I3.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67376

PRINT DATE: 4/10/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	317	809
		07684 - BRIDGE LAYOUTS - 67377				

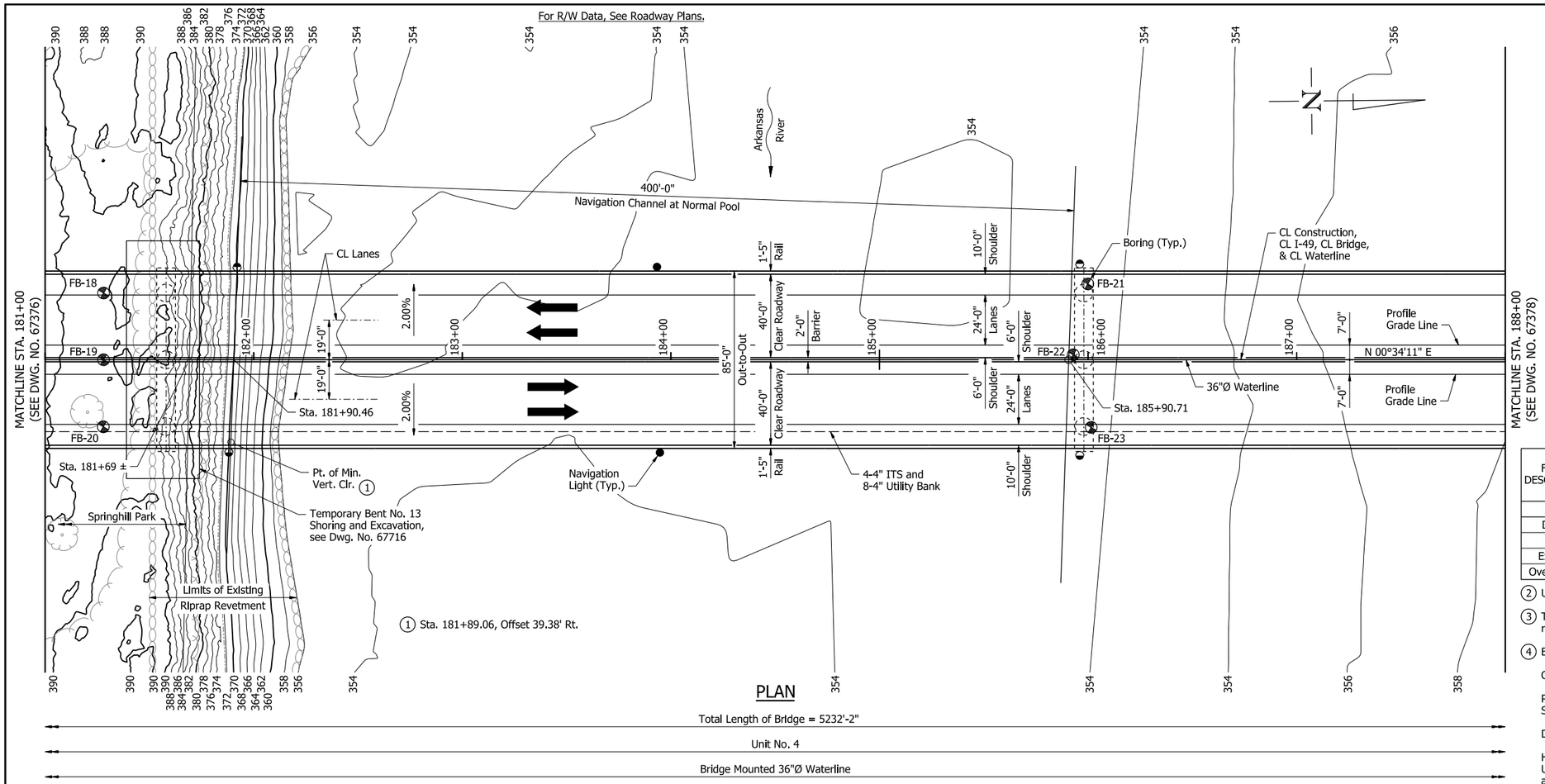
Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of Navigation Lighting, see Illumination Plans.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of 36"Ø Waterline, see "DETAILS OF INSPECTION ACCESS AND WATERLINE SUPPORTS" and Waterline Plans.

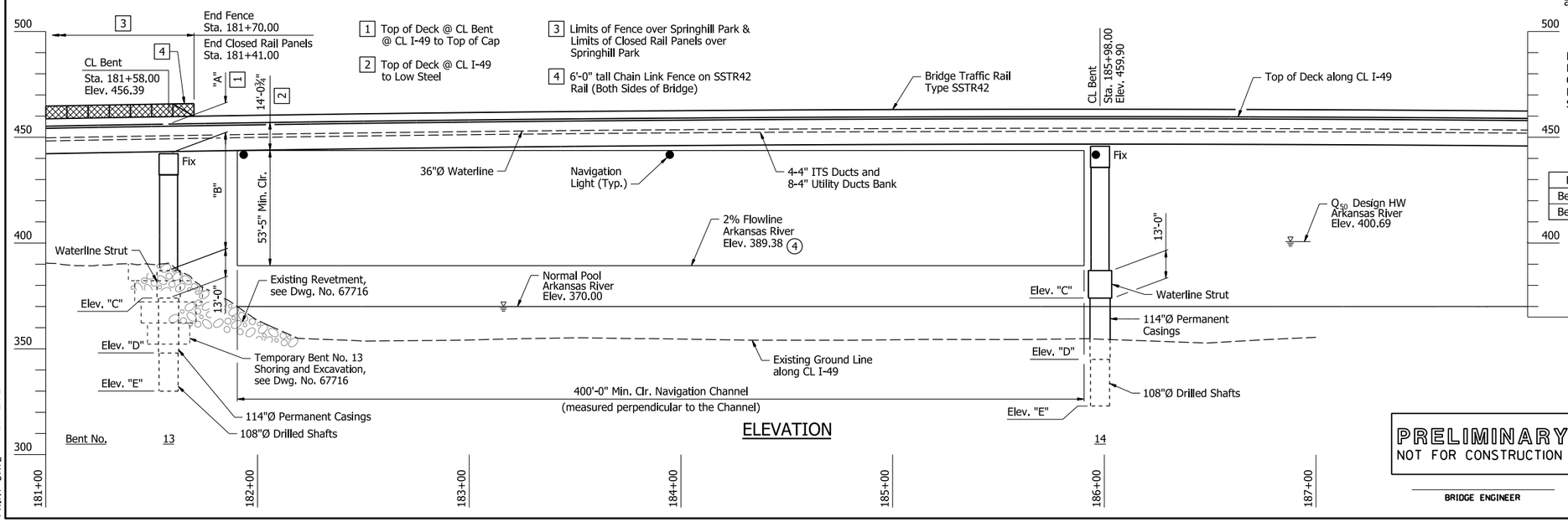


PLAN

Total Length of Bridge = 5232'-2"

Unit No. 4

Bridge Mounted 36"Ø Waterline



ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	(3) TOTAL DISCHARGE	DISCHARGE BRIDGE 07684	(2) NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	CFS	FEET	FEET
Design	50	415,000	394,364	401.34	401.36
Base	100	480,000	453,722	403.37	403.37
Extreme	500	600,000	565,525	405.38	405.39
Overtopping	>500	615,000	579,313	405.83	405.85

(2) Unconstricted water surface without structure or roadway approaches.

(3) The total discharge includes flow at this site and at Bridge 07685 (Flat Rock Creek relief bridge).

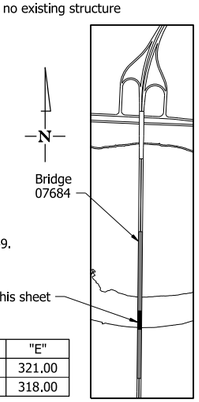
(4) Based on hydraulic analysis for the final bridge design.

Q100 backwater elevation for existing structure = N/A, no existing structure

Proposed Bridge Low Chord Elevation = 403.71 feet at Station 163+76.67

Drainage Area = 151,000 square miles.

Historical H.W. Elev. = 406.96 feet (from upstream USGS stream gage 07250550 on June 1, 2019 with a discharge of 570,000 cfs)



SITE PLAN
No Scale

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 13	15'-4¼"	67'-0½"	374.00	348.00	321.00
Bent No. 14	15'-4¼"	70'-6⅝"	374.00	345.00	318.00

ALTERNATE NO. 1
SHEET 4 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/7/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090111_l4.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67377

PRINT DATE: 4/10/2024

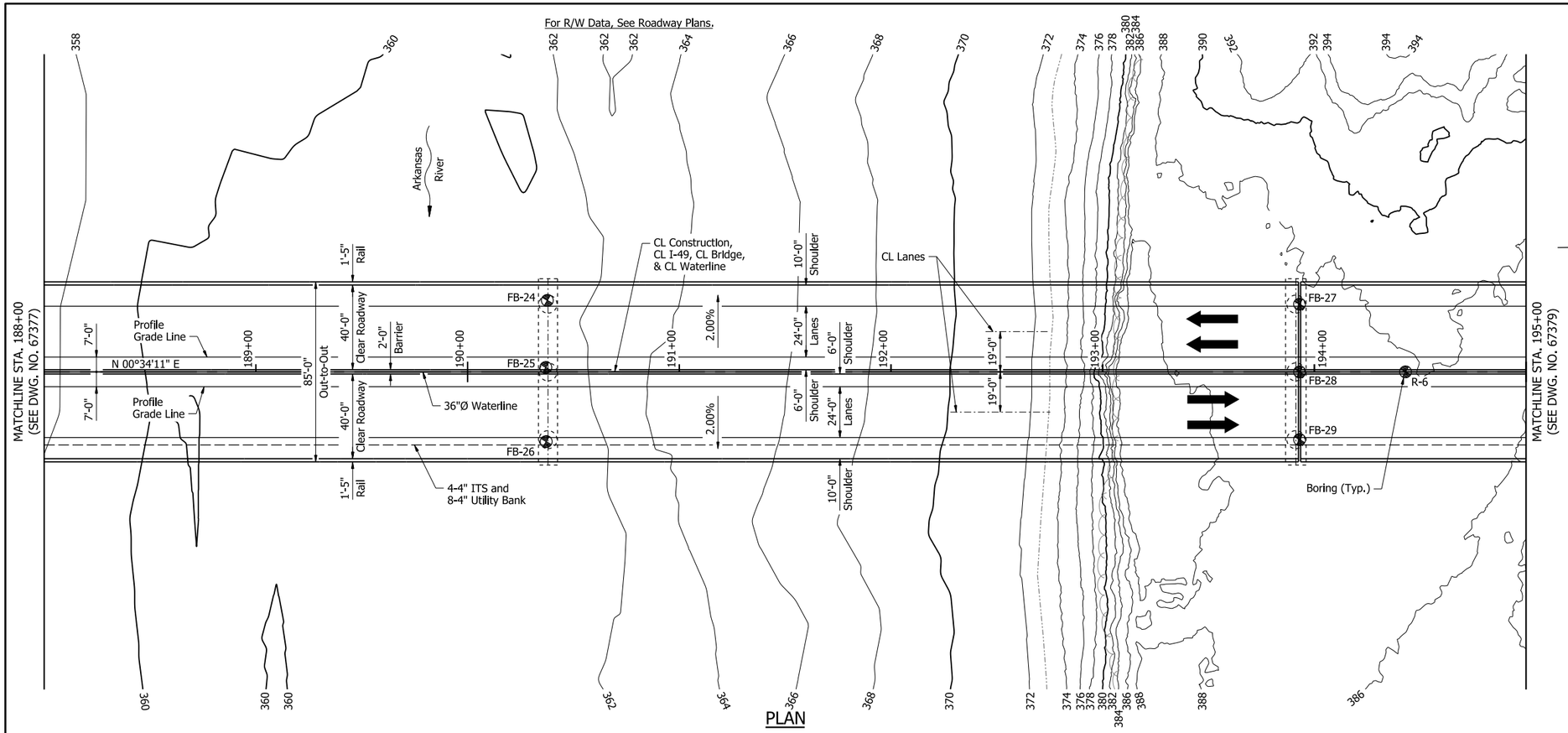
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	318	809
		07684 - BRIDGE LAYOUTS - 67378				

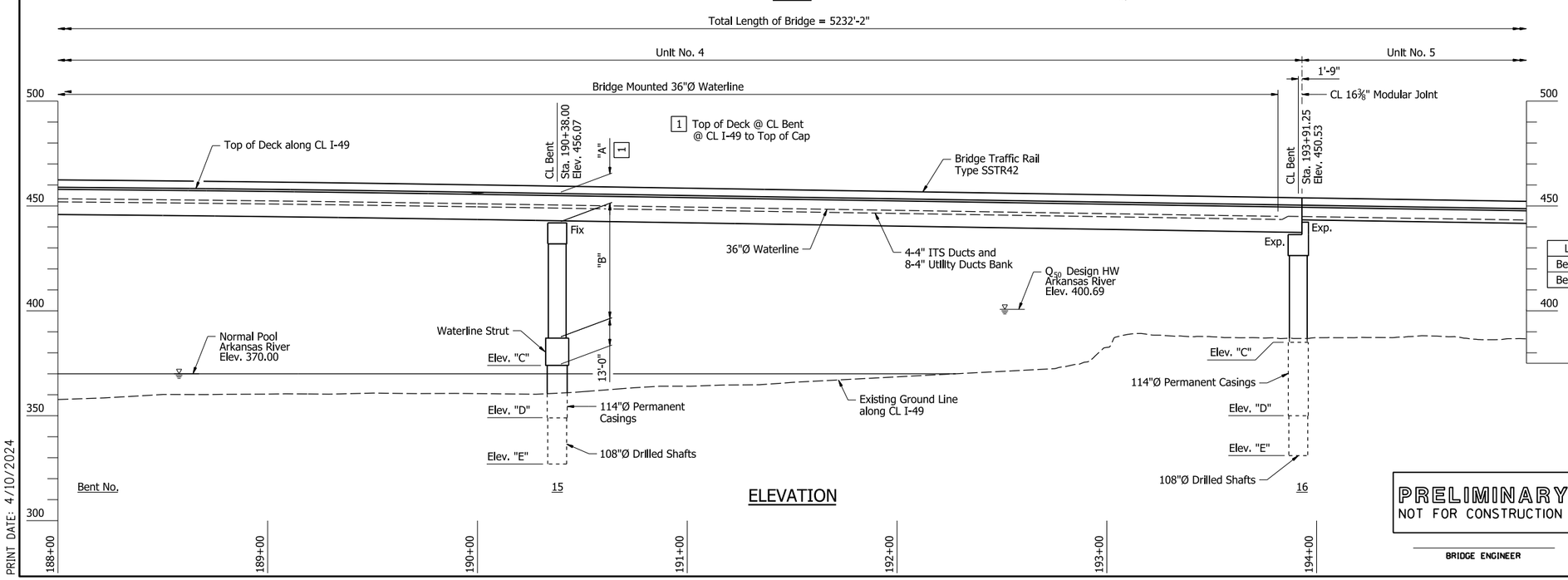
Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of 36"Ø Waterline, see "DETAILS OF INSPECTION ACCESS AND WATERLINE SUPPORTS" and Waterline Plans.

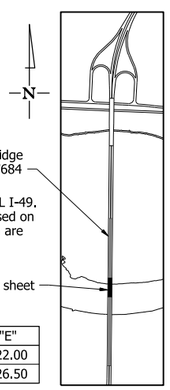




Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 15	15'-4⅛"	66'-8¾"	374.00	349.00	322.00
Bent No. 16	15'-0⅝"	50'-5¾"	385.00	349.00	326.50



SITE PLAN
No Scale

ALTERNATE NO. 1
SHEET 5 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK	DATE: 6/14/22	FILENAME: b04090111_I5.dgn	
CHECKED BY: CPS	DATE: 12/7/23	SCALE: 1" = 30'-0"	
DESIGNED BY: NAM	DATE: 5/15/22		

BRIDGE NO. 07684 DRAWING NO. 67378

PRINT DATE: 4/10/2024

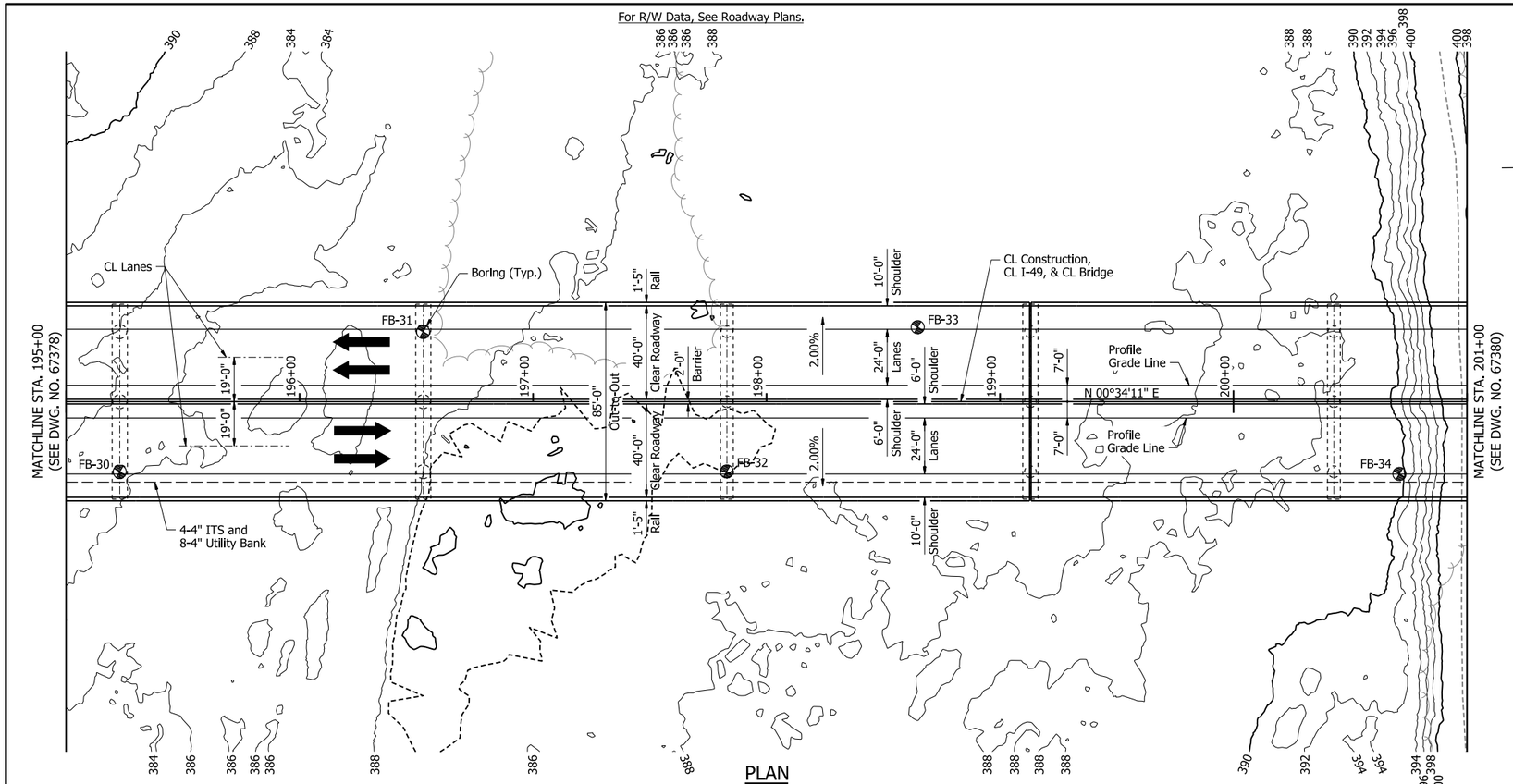
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	319	809
		07684 - BRIDGE LAYOUTS - 67379				

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For R/W Data, See Roadway Plans.

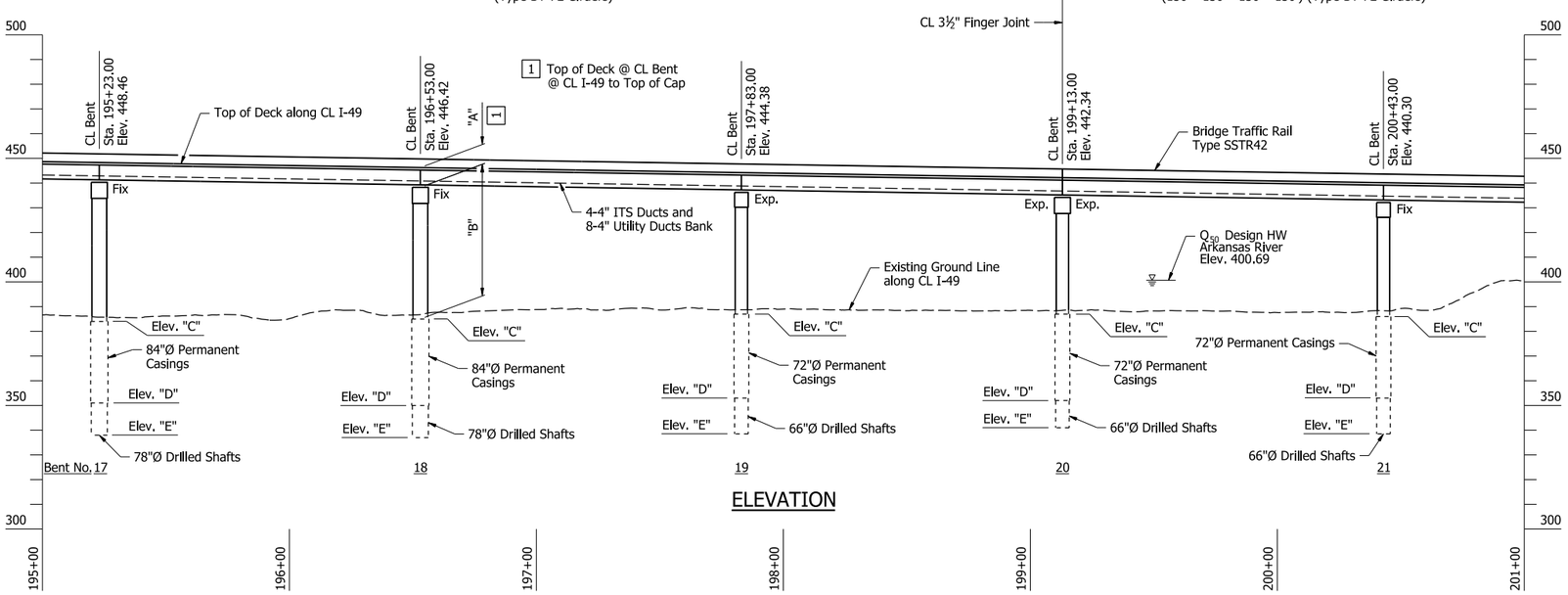


PLAN

Total Length of Bridge = 5232'-2"

520'-0" Continuous Prestressed Concrete Girder Unit No. 5 (130' - 130' - 130' - 130')
(Type BT-72 Girders)

520'-0" Continuous Prestressed Concrete Girder Unit No. 6
(130' - 130' - 130' - 130') (Type BT-72 Girders)

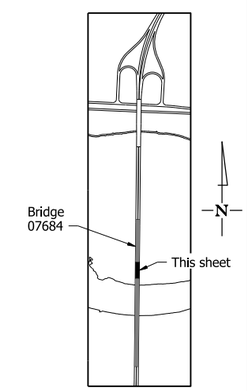


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 17	8'-3⅞"	56'-1⅝"	384.00	352.00	334.50
Bent No. 18	8'-4⅛"	53'-1"	385.00	351.00	333.50
Bent No. 19	8'-6¾"	48'-9⅞"	387.00	353.00	338.50
Bent No. 20	8'-10"	46'-6⅛"	387.00	352.00	337.50
Bent No. 21	8'-5"	45'-10½"	386.00	353.00	338.50



SITE PLAN
No Scale

ALTERNATE NO. 1
SHEET 6 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/7/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090111_l6.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67379

PRINT DATE: 4/10/2024

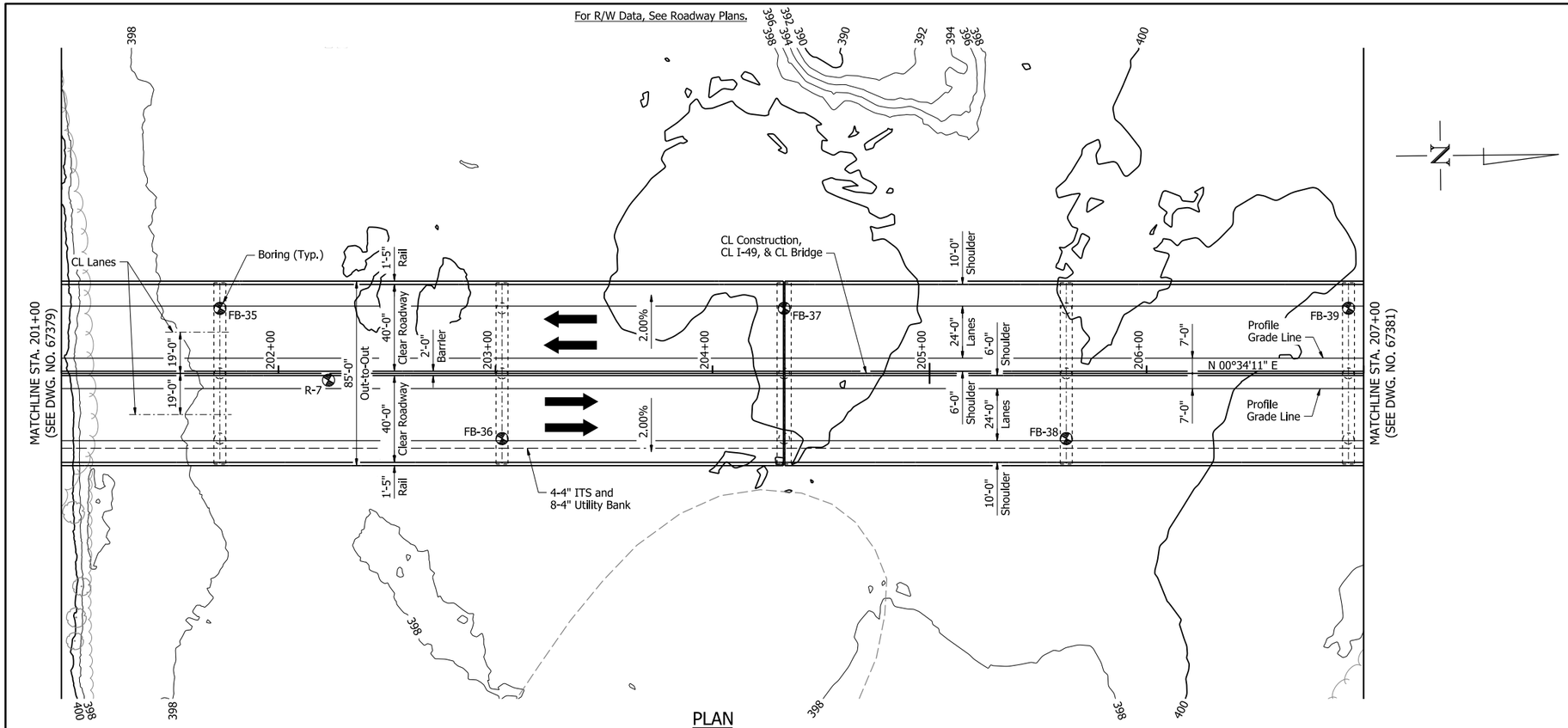
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	320	809
		07684 - BRIDGE LAYOUTS - 67380				

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For R/W Data, See Roadway Plans.

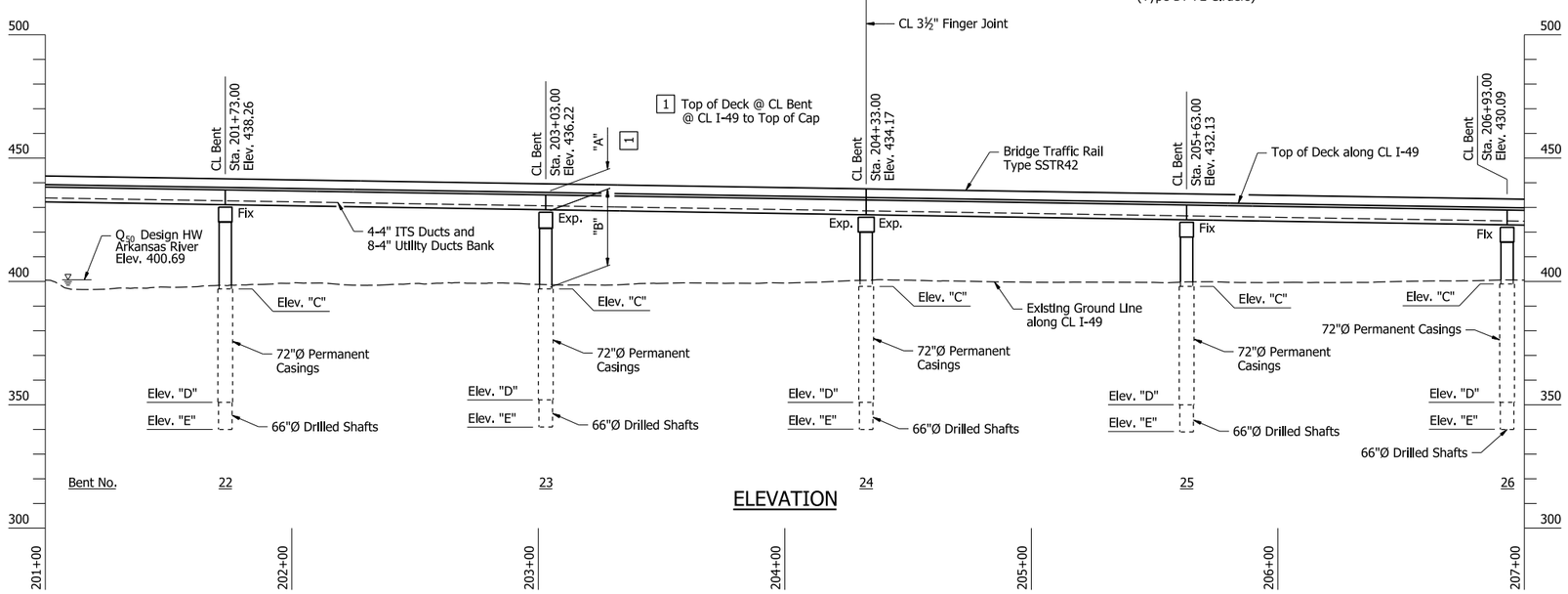


PLAN

Total Length of Bridge = 5232'-2"

Unit No. 6

390'-0" Continuous Prestressed Concrete Girder Unit No. 7 (130' - 130' - 130')
(Type BT-72 Girders)

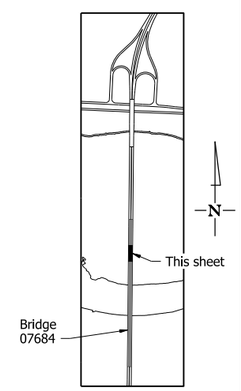


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 22	8'-4⅛"	32'-11"	397.00	351.00	340.00
Bent No. 23	8'-6¾"	30'-7⅞"	397.00	352.00	341.00
Bent No. 24	8'-9⅛"	27'-4⅞"	398.00	351.00	340.00
Bent No. 25	8'-5⅛"	25'-8⅜"	398.00	350.00	339.00
Bent No. 26	8'-5⅛"	22'-7⅞"	399.00	351.00	340.00



SITE PLAN
No Scale

ALTERNATE NO. 1
SHEET 7 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/7/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090111_l7.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67380

PRINT DATE: 4/10/2024

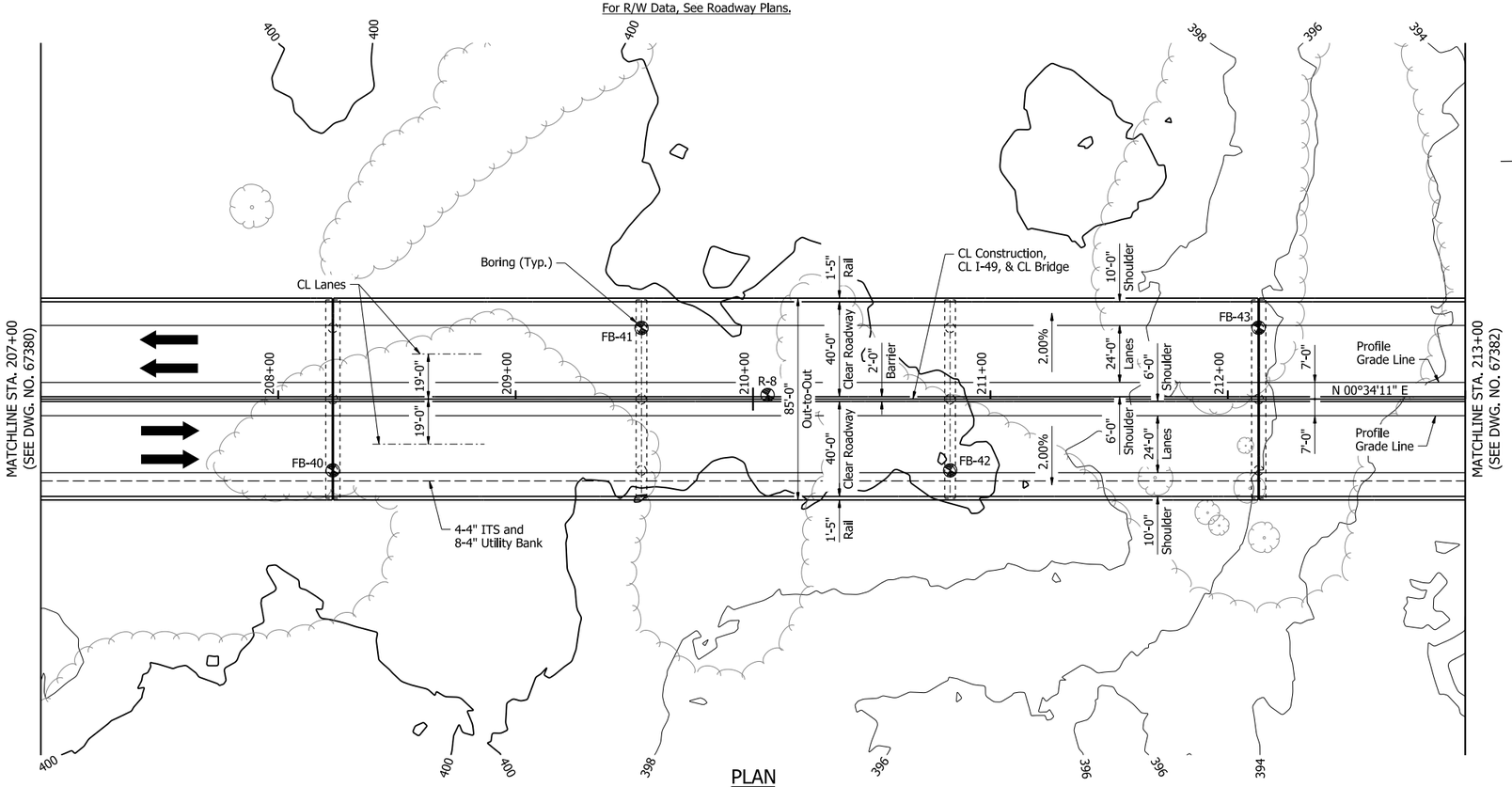
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	321	809
		07684 - BRIDGE LAYOUTS - 67381				

Notes:
For General Notes, see Dwg. No. 67372.

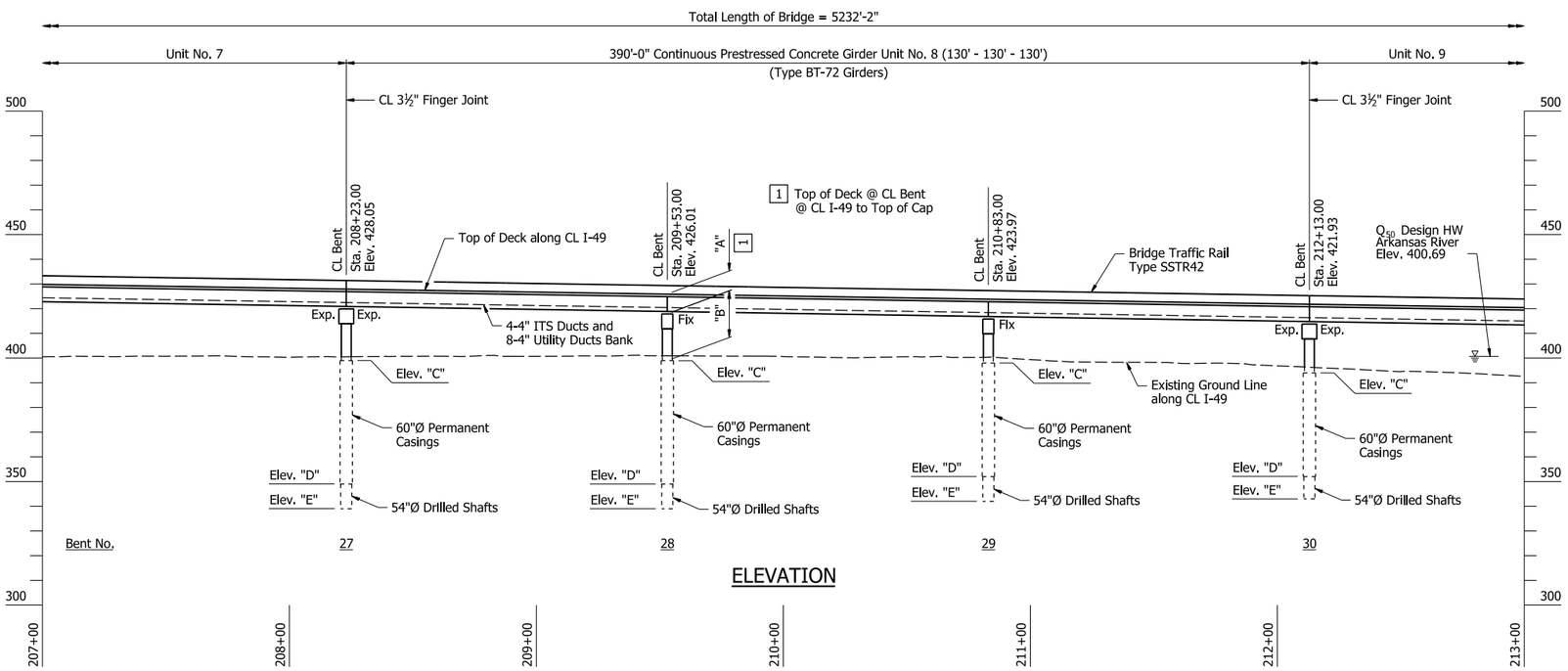
All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For R/W Data, See Roadway Plans.



PLAN

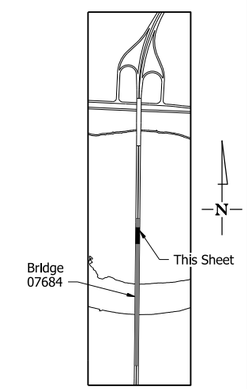


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck Is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 27	8'-9¾"	20'-2⅞"	399.00	349.00	339.00
Bent No. 28	8'-5½"	18'-6⅜"	399.00	349.00	339.00
Bent No. 29	8'-5¼"	17'-6⅜"	398.00	352.00	342.00
Bent No. 30	8'-10⅛"	19'-1⅛"	394.00	352.00	343.00



SITE PLAN
No Scale

ALTERNATE NO. 1
SHEET 8 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

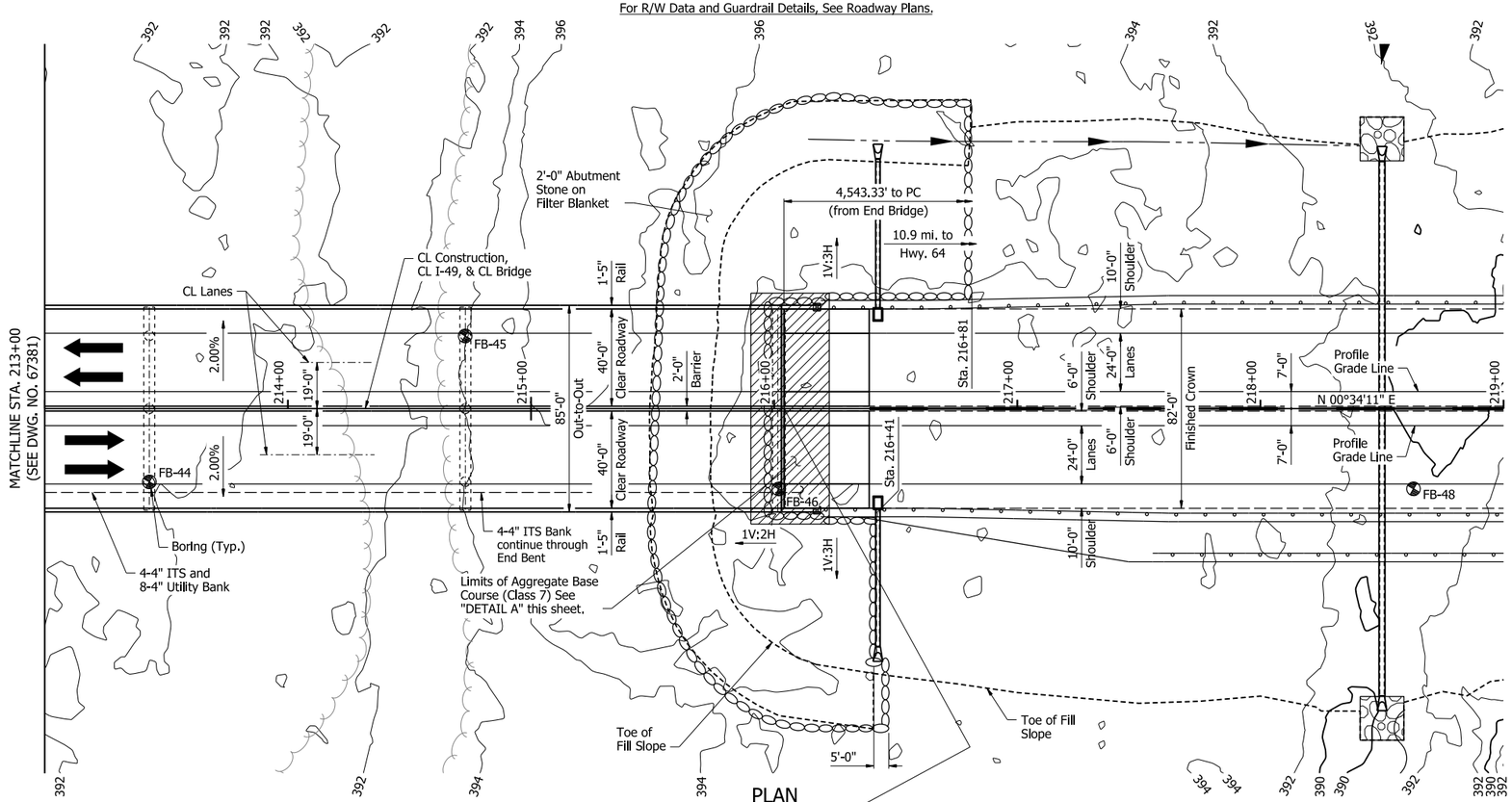
DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/7/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090111_l8.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67381

PRINT DATE: 4/10/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	322	809
		07684 - BRIDGE LAYOUTS - 67382				

For R/W Data and Guardrail Details, See Roadway Plans.



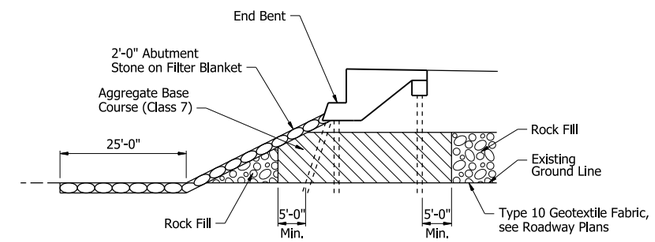
PLAN

Notes:
Use Type F Approach Gutters & Type F Approach Slab at end of bridge.

For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

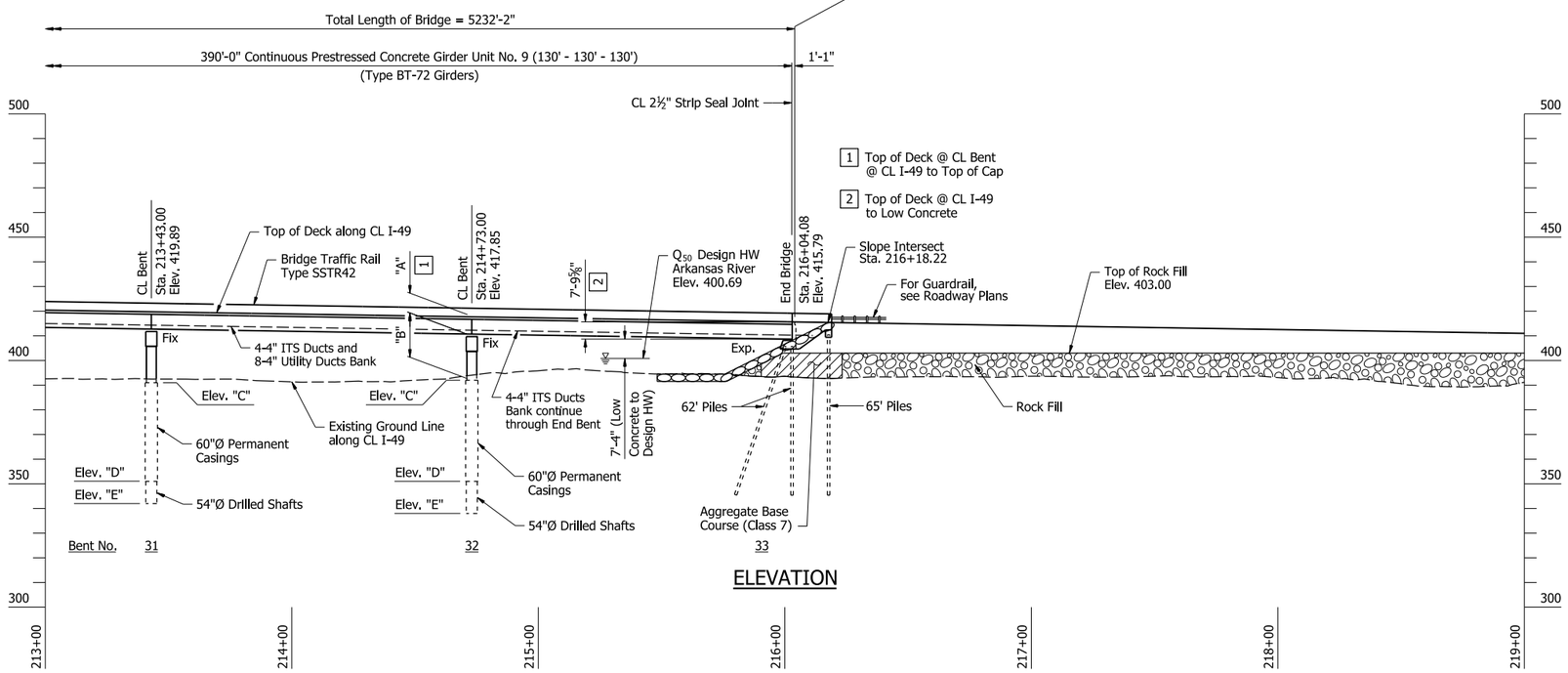


Where rock fill is used for embankment construction, aggregate base course (Class 7), in accordance with Section 303.02, shall be placed as shown in areas where piling will be located. Aggregate base course (Class 7) shall be paid for as "Rock Fill".

At the Contractor's option, preboring or other methods as approved by the Engineer may be used to facilitate pile installation thru the aggregate base course (Class 7) material at these locations. Preboring or other methods used for installation of piles where rock fill is used for embankment construction will not be paid for separately, but shall be included in item "Steel Piling".

DETAIL A

No Scale

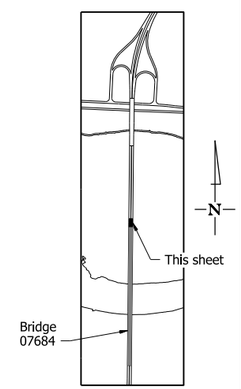


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 31	8'-5¼"	20'-5⅜"	391.00	351.00	342.00
Bent No. 32	8'-5¼"	17'-4⅞"	392.00	351.00	338.00



SITE PLAN

No Scale

ALTERNATE NO. 1
SHEET 9 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/7/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090111_l9.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67382

PRINT DATE: 4/10/2024

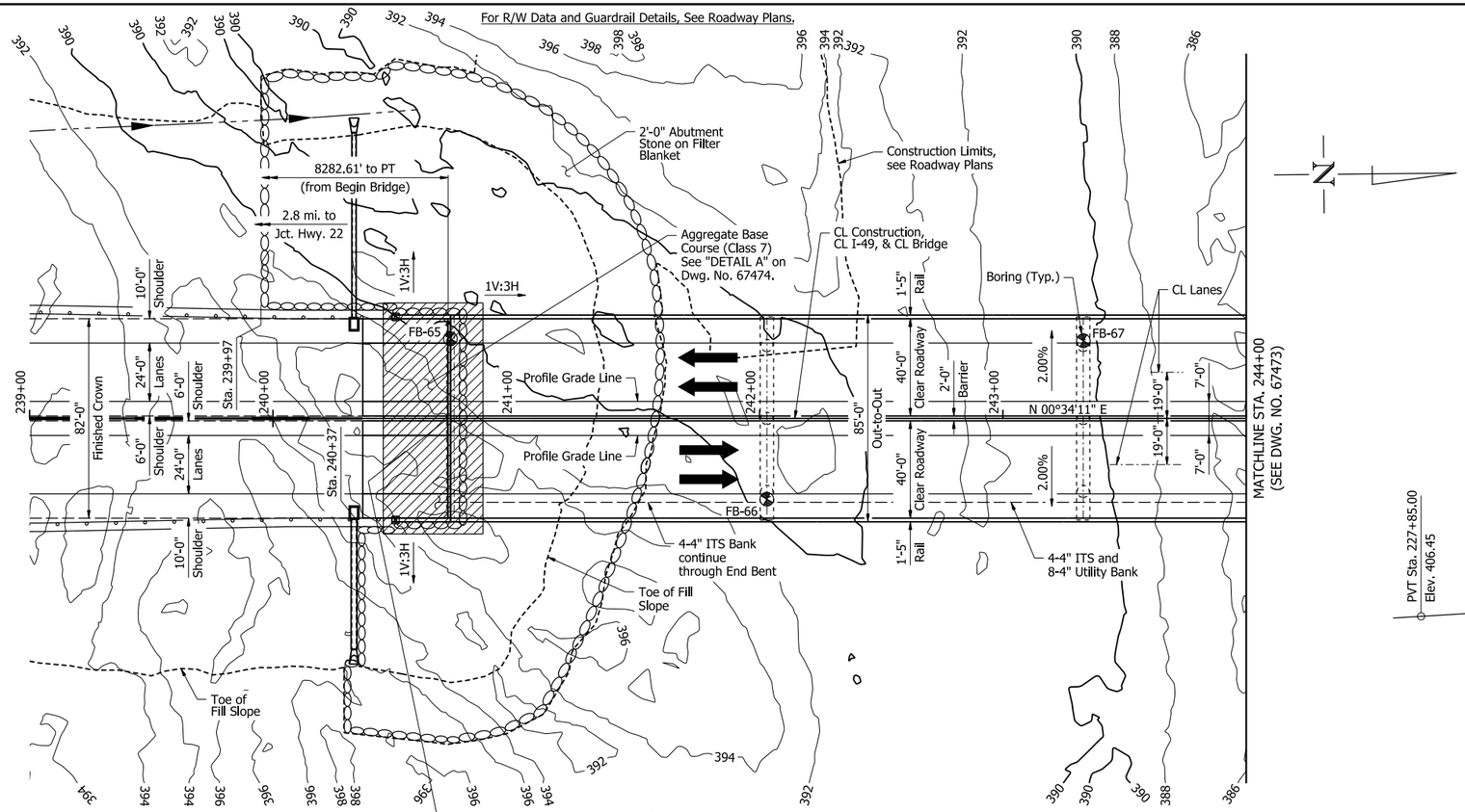
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	412	809
		07685 - BRIDGE LAYOUTS - 67472				

Notes:
Use Type F Approach Gutters, Type F Approach Slabs (W=36'-0") and Type 1 Special Median Approach Slab (W=6'-0") at beginning of bridge. See Dwg. No. 67712 for Bridge Approach Details.

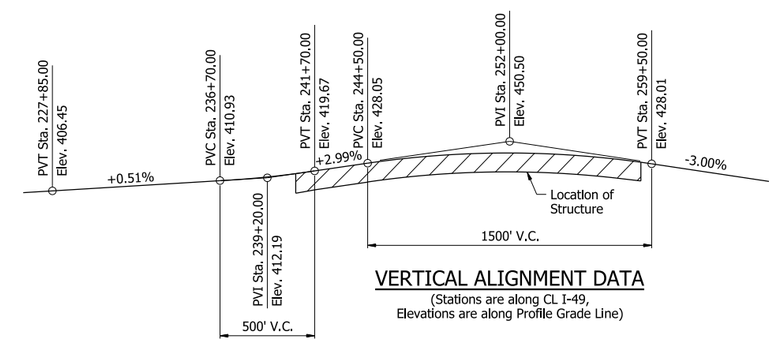
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".



PLAN



VERTICAL ALIGNMENT DATA

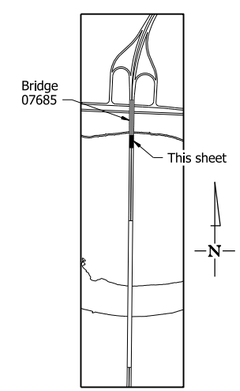
(Stations are along CL I-49, Elevations are along Profile Grade Line)

ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 2	8'-5⅝"	25'-4½"	387.00	348.00	322.00
Bent No. 3	8'-4¼"	27'-4⅛"	389.00	345.00	321.00



SITE PLAN

No Scale

ALTERNATE NO. 1
SHEET 1 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

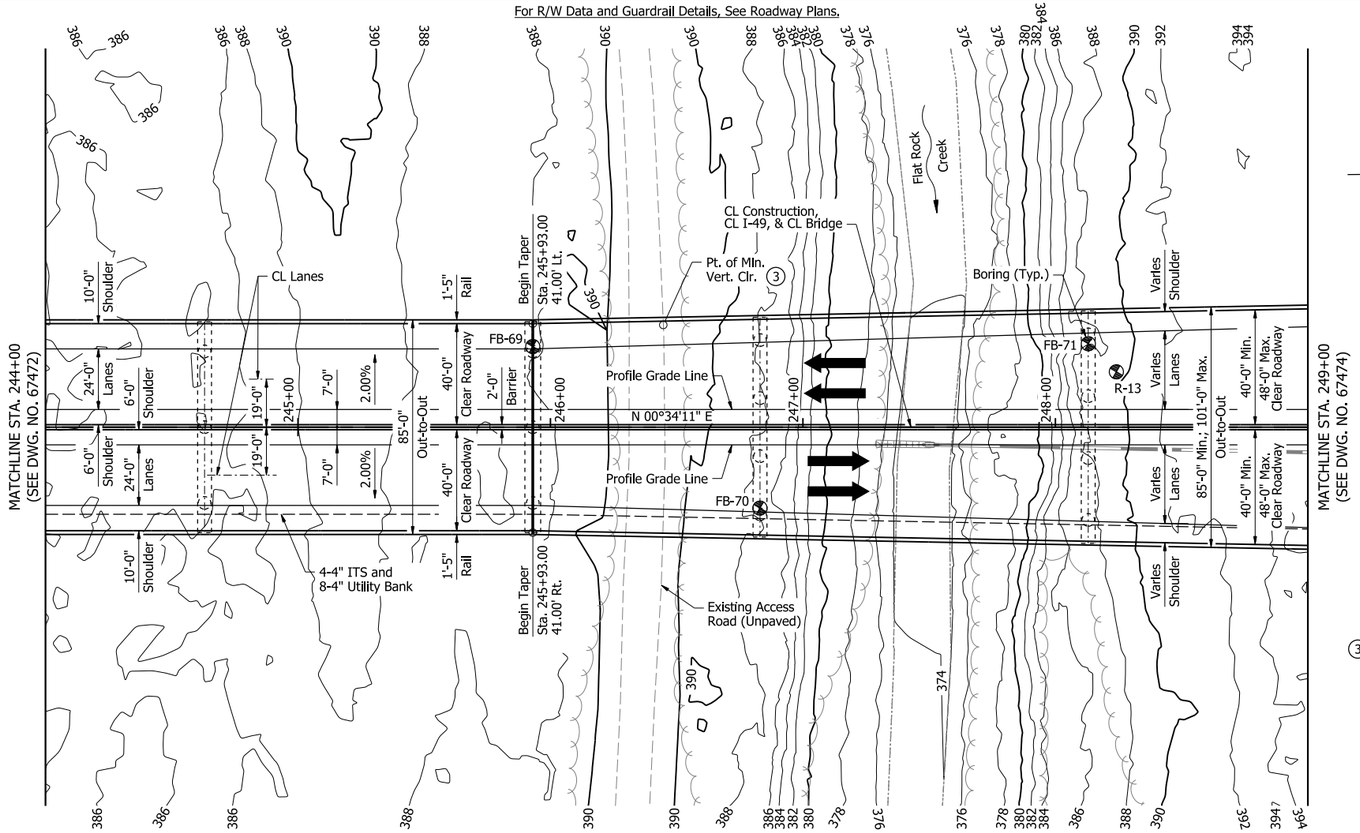
DRAWN BY: CTK DATE: 1/30/23
CHECKED BY: QL DATE: 12/4/23
DESIGNED BY: BTJ DATE: 12/2/22
FILENAME: b040901116_l1.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07685 DRAWING NO. 67472

PRINT DATE: 4/9/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	413	809
		07685 - BRIDGE LAYOUTS - 67473				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

3 Sta. 246+44.74, Offset 40.36' Lt.

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	TOTAL 1 DISCHARGE	DISCHARGE BRIDGE 07685	2 NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	CFS	FEET	FEET
Design	50	415,000	20,636	401.34	401.36
Base	100	480,000	26,278	403.37	403.37
Extreme	500	600,000	34,475	405.38	405.39
Overtopping	>500	615,000	35,687	405.83	405.85

1 The total discharge includes flow at this site and at Bridge 07684 (Arkansas River Channel)

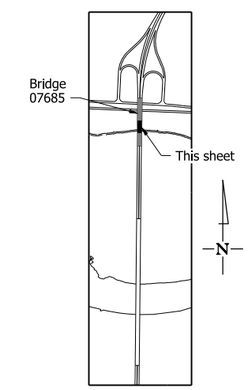
2 Unconstricted water surface without structure or roadway approaches.

Q100 backwater elevation for existing structure = N/A, no existing structure

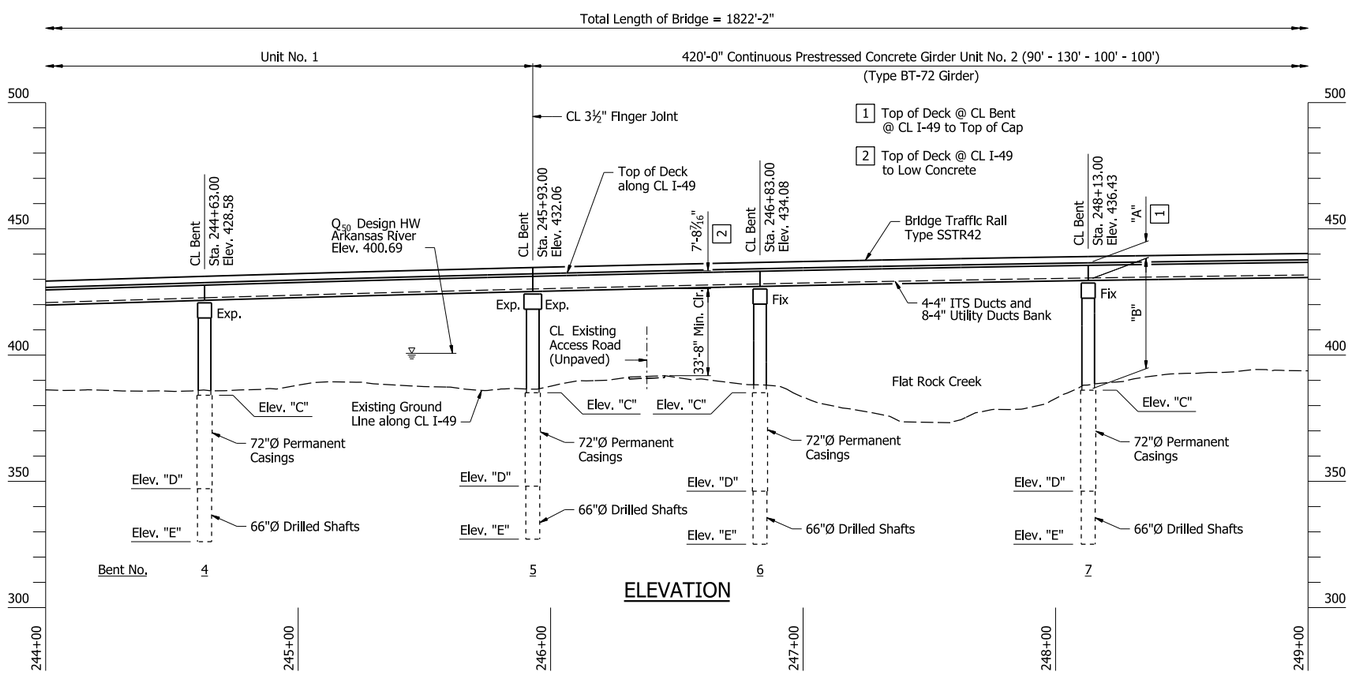
Proposed Bridge Low Chord Elevation = 409.37 feet at Station 240+76.67.

Drainage Area (Bridge 07684 and 07685) = 151,000 square miles.

Historical H.W. Elev. = 406.96 feet (from upstream USGS stream gage 07250550 on June 1, 2019 with a discharge of 570,000 cfs)



SITE PLAN
No Scale



ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 4	8'-7"	36'-0"	384.00	345.00	321.00
Bent No. 5	8'-9⅞"	38'-2⅞"	385.00	348.00	334.00
Bent No. 6	8'-3⅜"	40'-9⅝"	385.00	346.00	331.00
Bent No. 7	8'-4½"	42'-0¾"	386.00	346.00	331.00

ALTERNATE NO. 1
SHEET 2 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

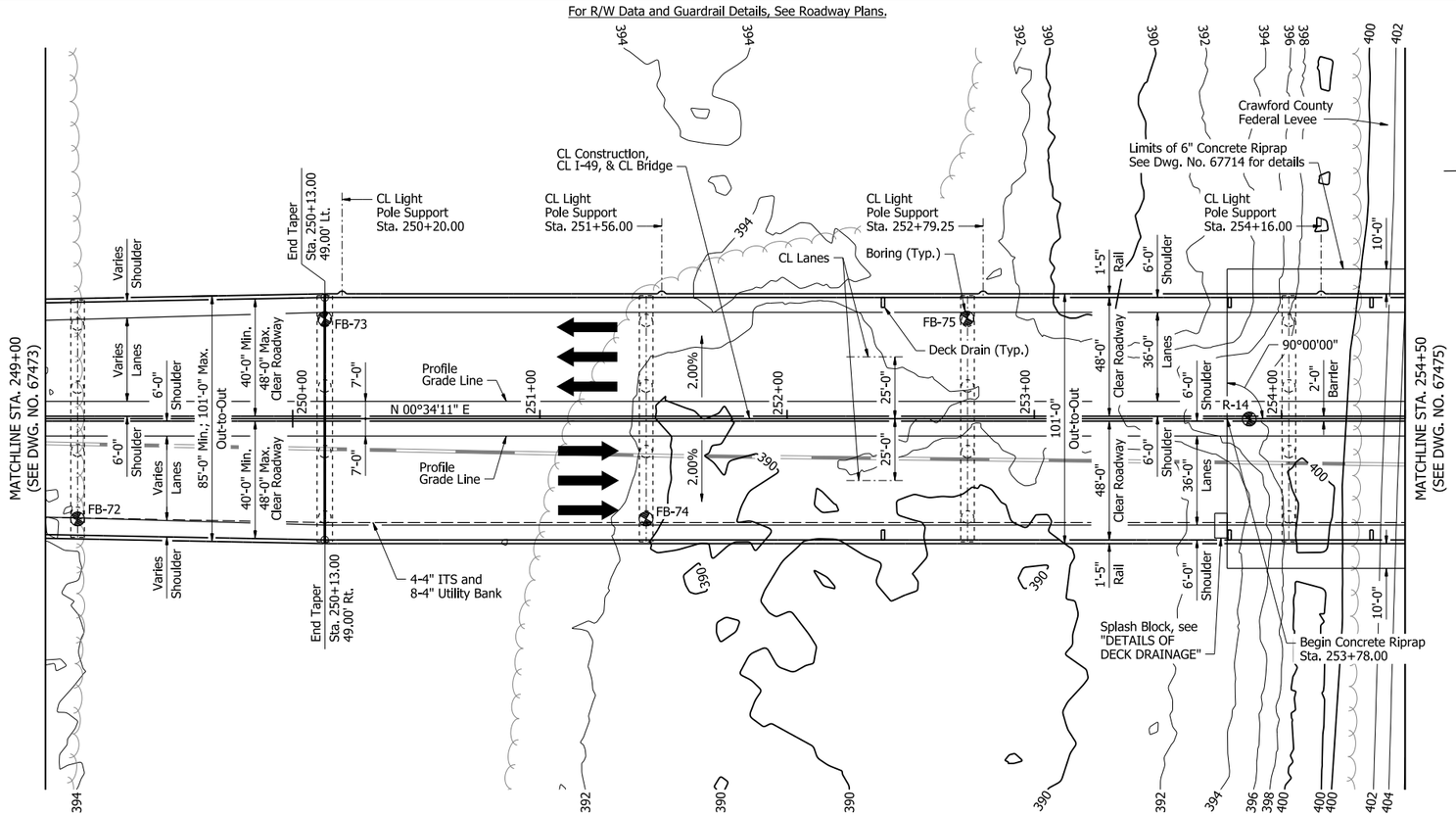
DRAWN BY: CTK DATE: 1/31/23 FILENAME: b040901116_l2.dgn
CHECKED BY: QL DATE: 12/4/23 SCALE: 1" = 30'-0"
DESIGNED BY: BTJ DATE: 12/2/22

BRIDGE NO. 07685 DRAWING NO. 67473

PRINT DATE: 4/8/2024

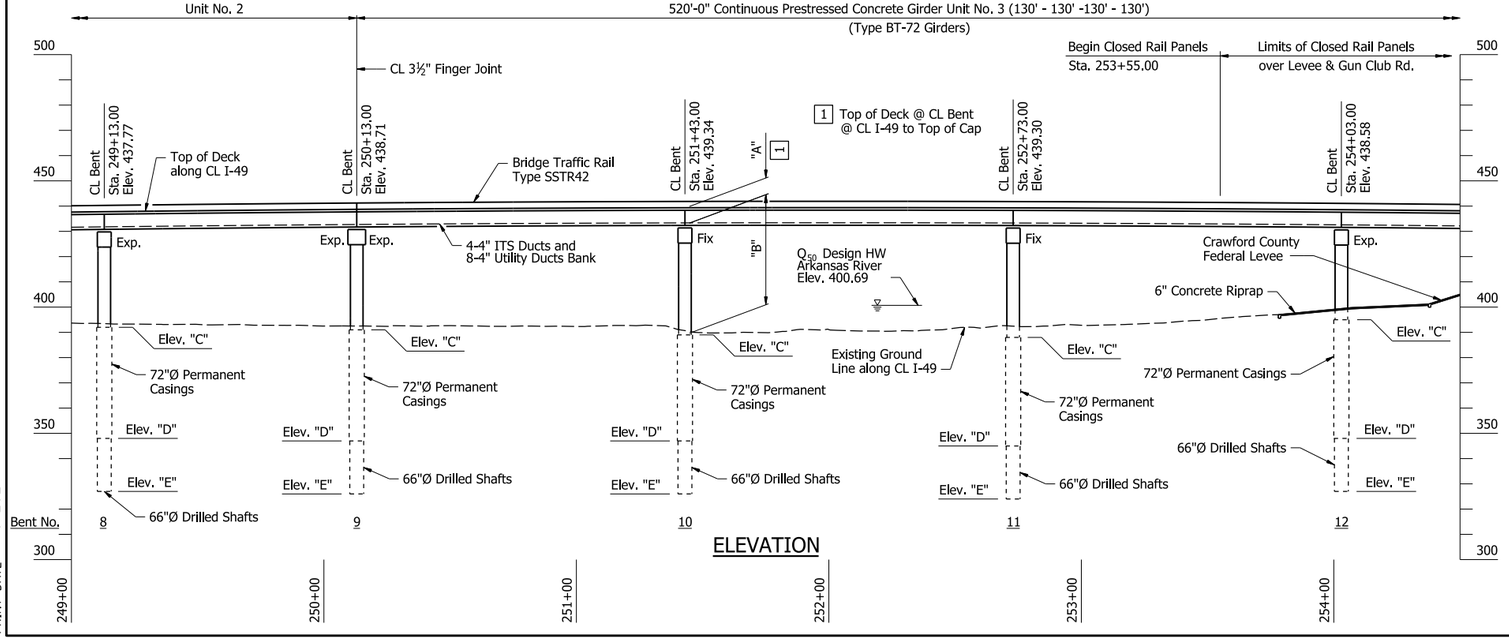
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	414	809
		07685 - BRIDGE LAYOUTS - 67474				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Total Length of Bridge = 1822'-2"



ELEVATION

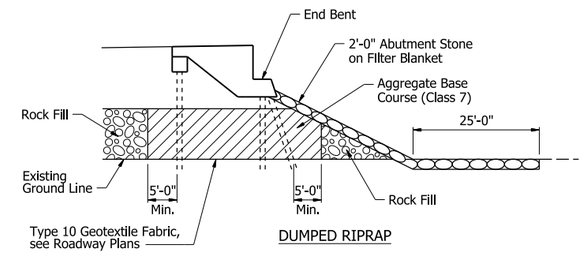
Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

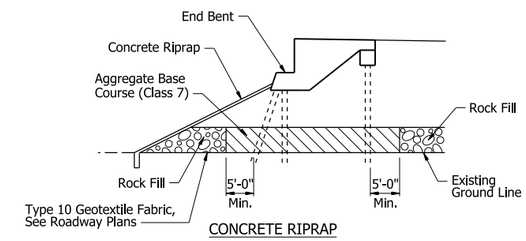
For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of Light Pole Support, see Dwg. No. 67686.

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.



DUMPED RIPRAP



CONCRETE RIPRAP

Where rock fill is used for embankment construction, aggregate base course (Class 7), in accordance with Section 303.02, shall be placed as shown in areas where piling will be located. Aggregate base course (Class 7) shall be paid for as "Rock Fill".

At the Contractor's option, preboring or other methods as approved by the Engineer may be used to facilitate pile installation thru the aggregate base course (Class 7) material at these locations. Preboring or other methods used for installation of piles where rock fill is used for embankment construction will not be paid for separately, but shall be included in item "Steel Piling".

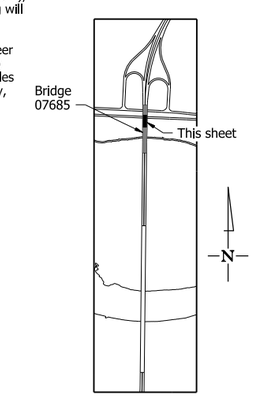
DETAIL A

No Scale

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 8	8'-7¾"	37'-1½"	392.00	348.00	331.00
Bent No. 9	8'-10½"	38'-10⅛"	391.00	347.00	332.00
Bent No. 10	8'-5"	41'-11"	389.00	347.00	332.00
Bent No. 11	8'-5"	42'-10½"	388.00	345.00	330.00
Bent No. 12	8'-8"	34'-10⅞"	395.00	342.00	327.00



SITE PLAN

No Scale

ALTERNATE NO. 1
SHEET 3 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

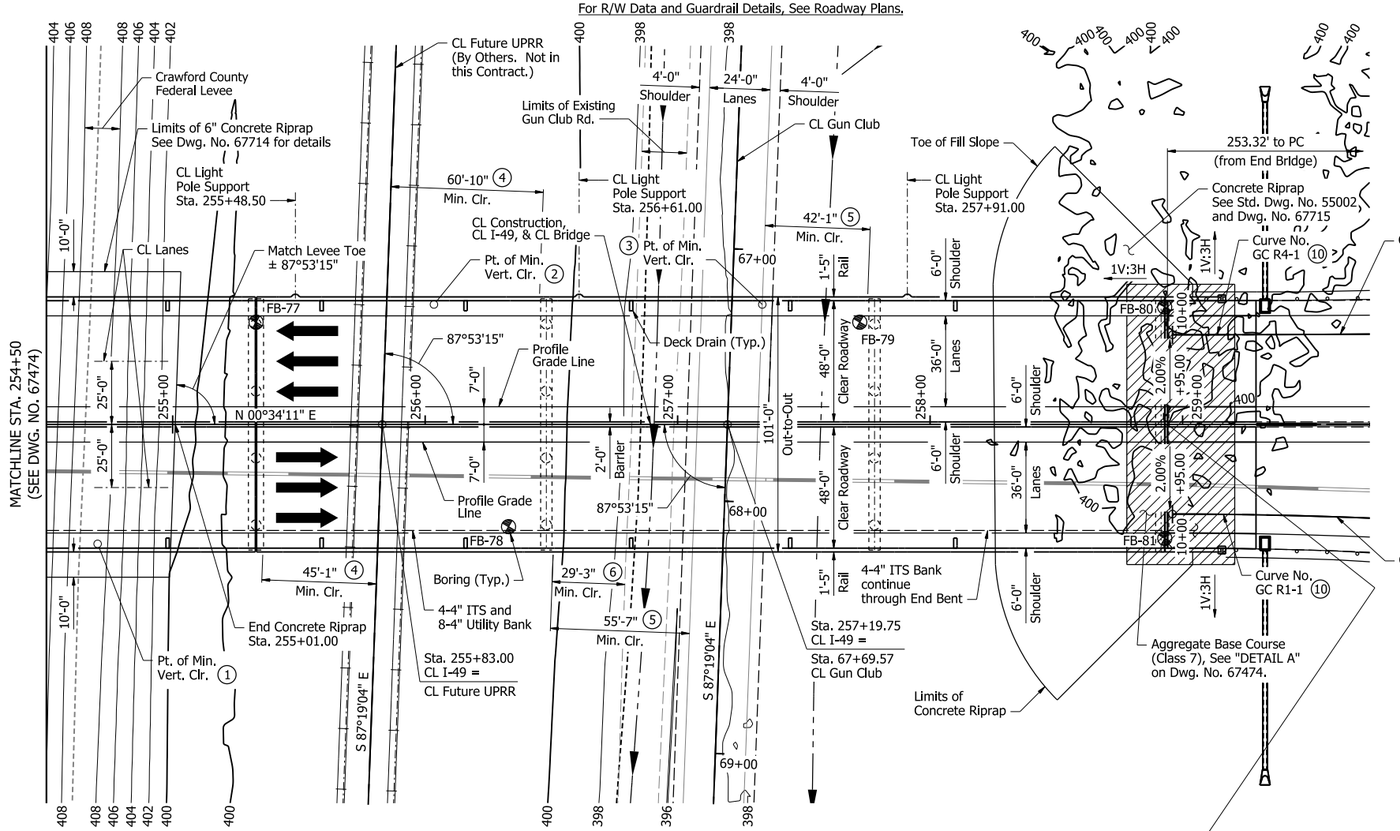
DRAWN BY: CTK DATE: 1/31/23
CHECKED BY: QL DATE: 12/4/23
DESIGNED BY: BTJ DATE: 12/2/22
FILENAME: b040901116_l3.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07685 DRAWING NO. 67474

PRINT DATE: 4/9/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	415	809
		07685 - BRIDGE LAYOUTS - 67475				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Notes:
Use Type 1 Special Approach Gutters, Type F Approach Slabs (W=44'-0") and Type 2 Special Median Approach Slab (W=6'-0") at end of Bridge. See Dwg. No. 67713 for Bridge Approach Details.

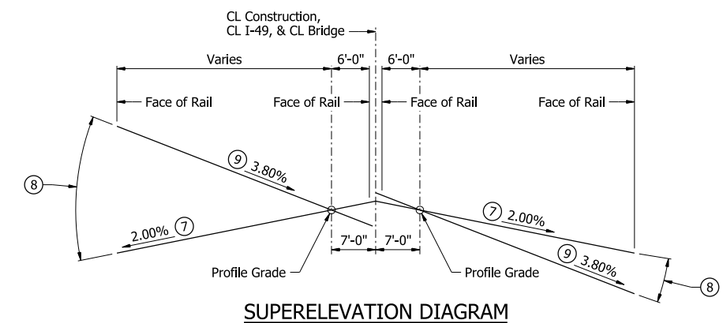
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of Light Pole Support, see Dwg. No. 67686.

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.



SUPERELEVATION DIAGRAM
Looking Ahead

(1) Sta. 254+63.25, Offset 47.38' Rt.

(2) Sta. 256+03.77, Offset 47.38' Lt.

(3) Sta. 257+33.51, Offset 47.38' Lt.

(4) Min. Clear from CL Future UPRR to face of capbeam.

(5) Min. Clear from edge of proposed lane to face of capbeam.

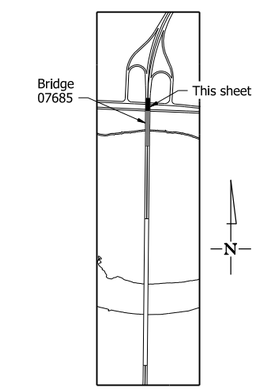
(6) Min. Clear from edge of existing lane to face of capbeam.

(7) Cross Slope constant 2.00% (Sta. 160+52.00 to Sta. 258+95.00)

(8) Cross Slope varies from 2.00% (Sta. 258+95.00) to 3.80% (Sta. 262+45.00)

(9) Cross Slope constant 3.80% (Sta. 262+45.00 to Sta. 320+50.00)

(10) See Roadway for ramp curve data

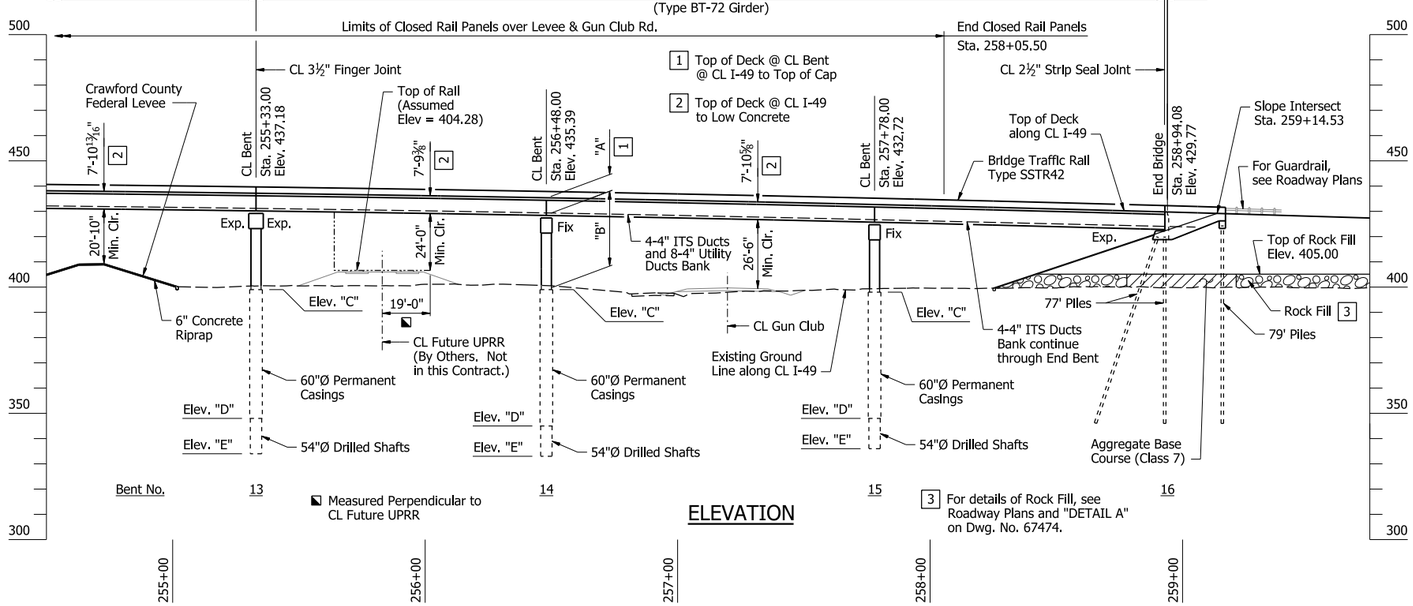


SITE PLAN
No Scale

Total Length of Bridge = 1822'-2"

Unit No. 3 | 360'-0" Continuous Prestressed Concrete Girder Unit No. 4 (115' - 130' -115') (Type BT-72 Girder) | 1'-1"

Limits of Closed Rail Panels over Levee & Gun Club Rd. | End Closed Rail Panels Sta. 258+05.50



ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 13	8'-10½"	29'-3⅝"	399.00	348.00	336.50
Bent No. 14	8'-5¼"	27'-11⅜"	399.00	345.00	333.50
Bent No. 15	8'-4⅞"	26'-3¾"	398.00	348.00	336.50

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ALTERNATE NO. 1
SHEET 4 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

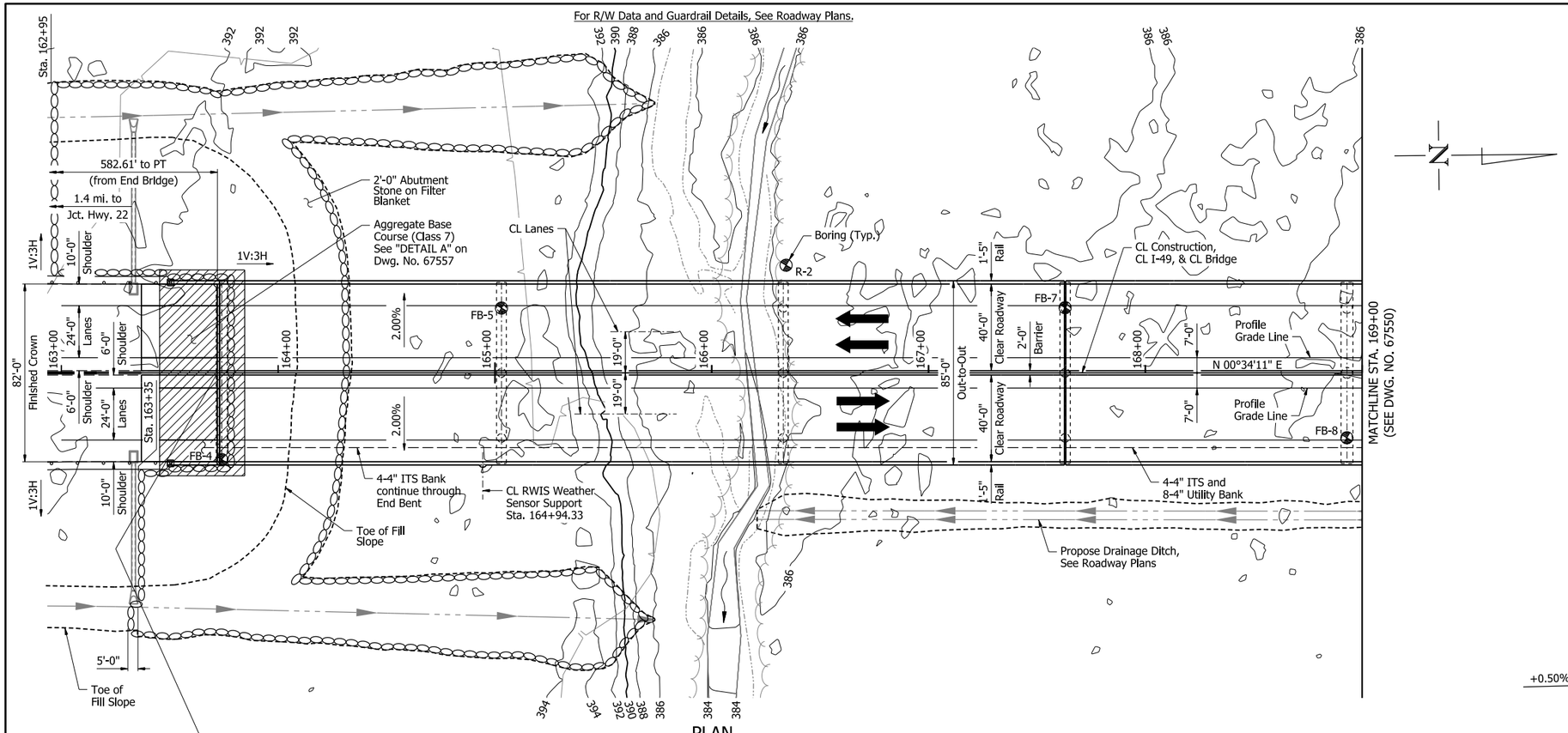
DRAWN BY: CTK DATE: 1/30/23
CHECKED BY: QL DATE: 12/4/23
DESIGNED BY: BTJ DATE: 12/2/22
FILENAME: b040901116_l4.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07685 DRAWING NO. 67475

PRINT DATE: 4/9/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	489	809
		07684 - BRIDGE LAYOUTS - 67549				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

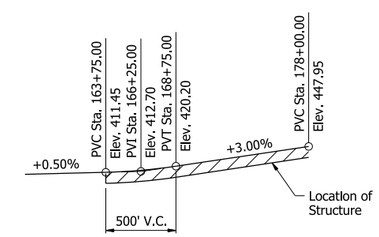
Notes:
Use Type F Approach Gutters, Type F Approach Slabs (W=36'-0") and Type 1 Special Median Approach Slab (W=6'-0") at beginning of bridge. See Dwg. No. 67712 for Bridge Approach Details.

For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

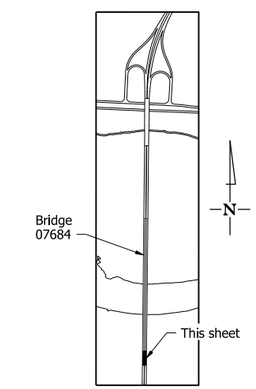
For details of RWIS Weather Sensor Support, see Dwg. No. 67686 and ITS Plans.



VERTICAL ALIGNMENT DATA

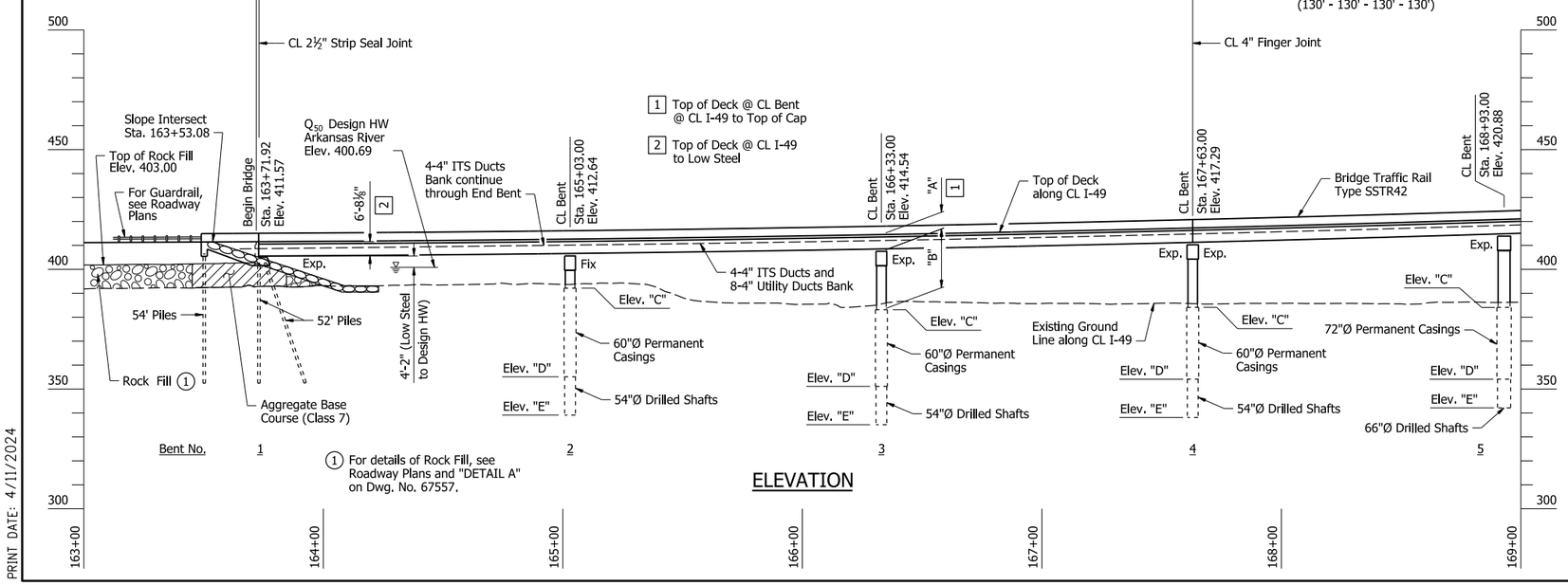
(Stations are along CL I-49, Elevations are along Profile Grade Line)

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.



SITE PLAN

No Scale



ELEVATION

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 2	7'-4⅞"	13'-2¾"	392.00	355.00	339.00
Bent No. 3	7'-5⅜"	24'-1⅛"	383.00	351.00	335.00
Bent No. 4	7'-7⅝"	25'-7¾"	384.00	354.00	338.00
Bent No. 5	7'-6⅜"	29'-4¼"	384.00	354.00	342.00

ALTERNATE NO. 2
SHEET 1 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 11/21/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_l1.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67549

PRINT DATE: 4/11/2024

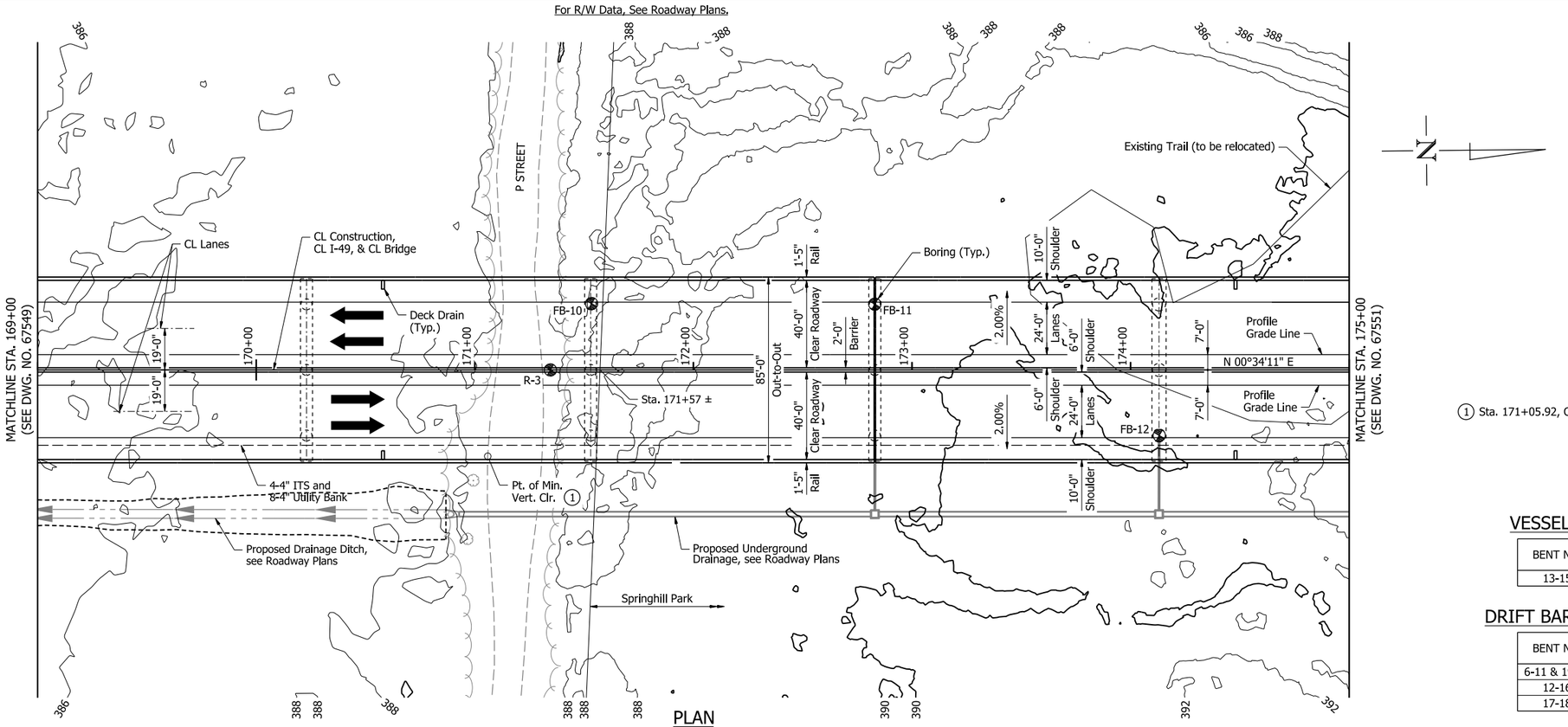
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	490	809
		07684 - BRIDGE LAYOUTS - 67550				

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.



PLAN

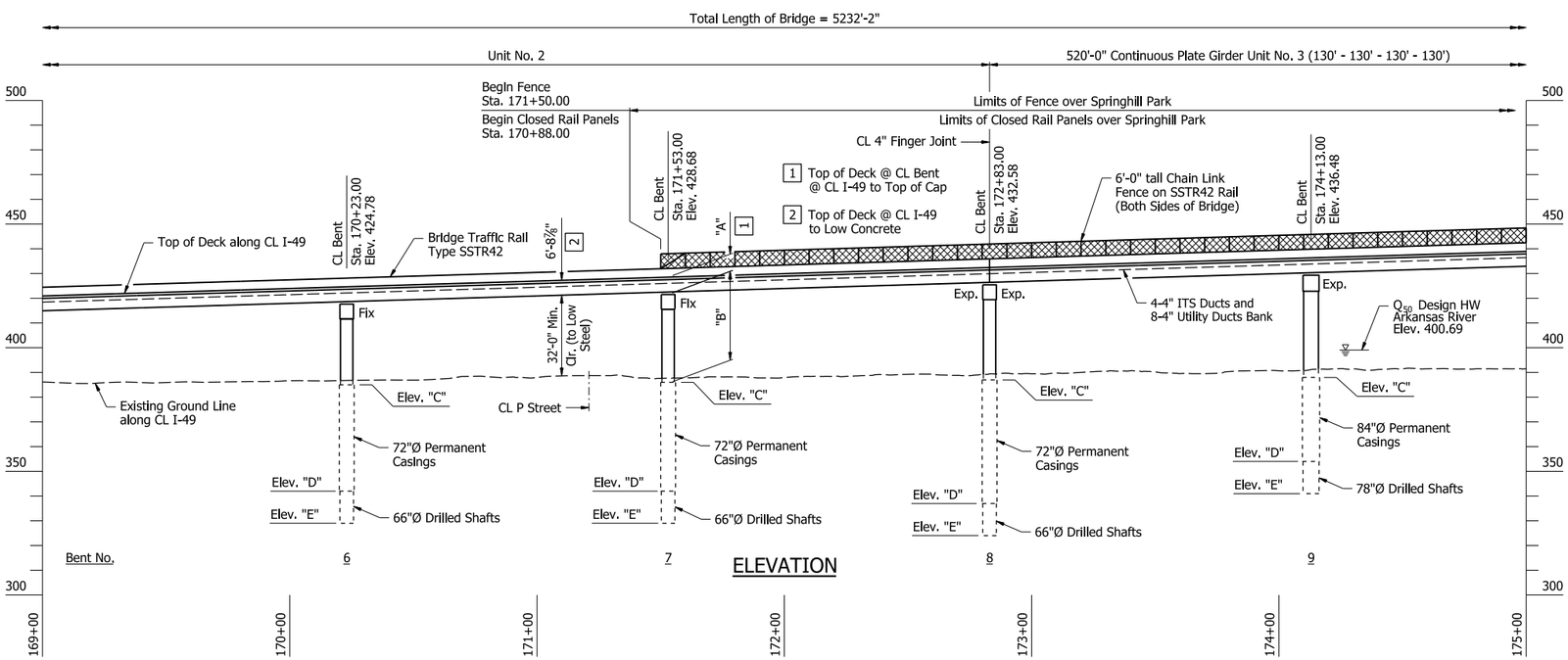
1 Sta. 171+05.92, Offset 39.33' Rt.

VESSEL COLLISION FORCES

BENT NO.	FORCES (KIPS)	ELEVATION (FEET)
13-15	3100	380.00

DRIFT BARGE COLLISION FORCES

BENT NO.	FORCES (KIPS)	ELEVATION (FEET)
6-11 & 19-32	300	413.00
12-16	1410	413.00
17-18	600	413.00

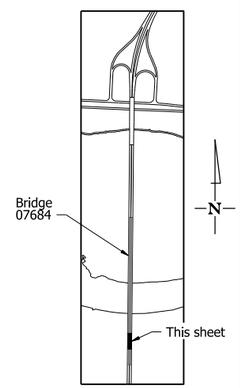


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 6	7'-6½"	32'-2⅞"	385.00	342.00	329.00
Bent No. 7	7'-5¾"	35'-2⅜"	386.00	342.00	329.00
Bent No. 8	7'-8⅜"	37'-10½"	387.00	337.00	324.00
Bent No. 9	7'-6⅜"	40'-11⅜"	388.00	354.00	341.00



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 2 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

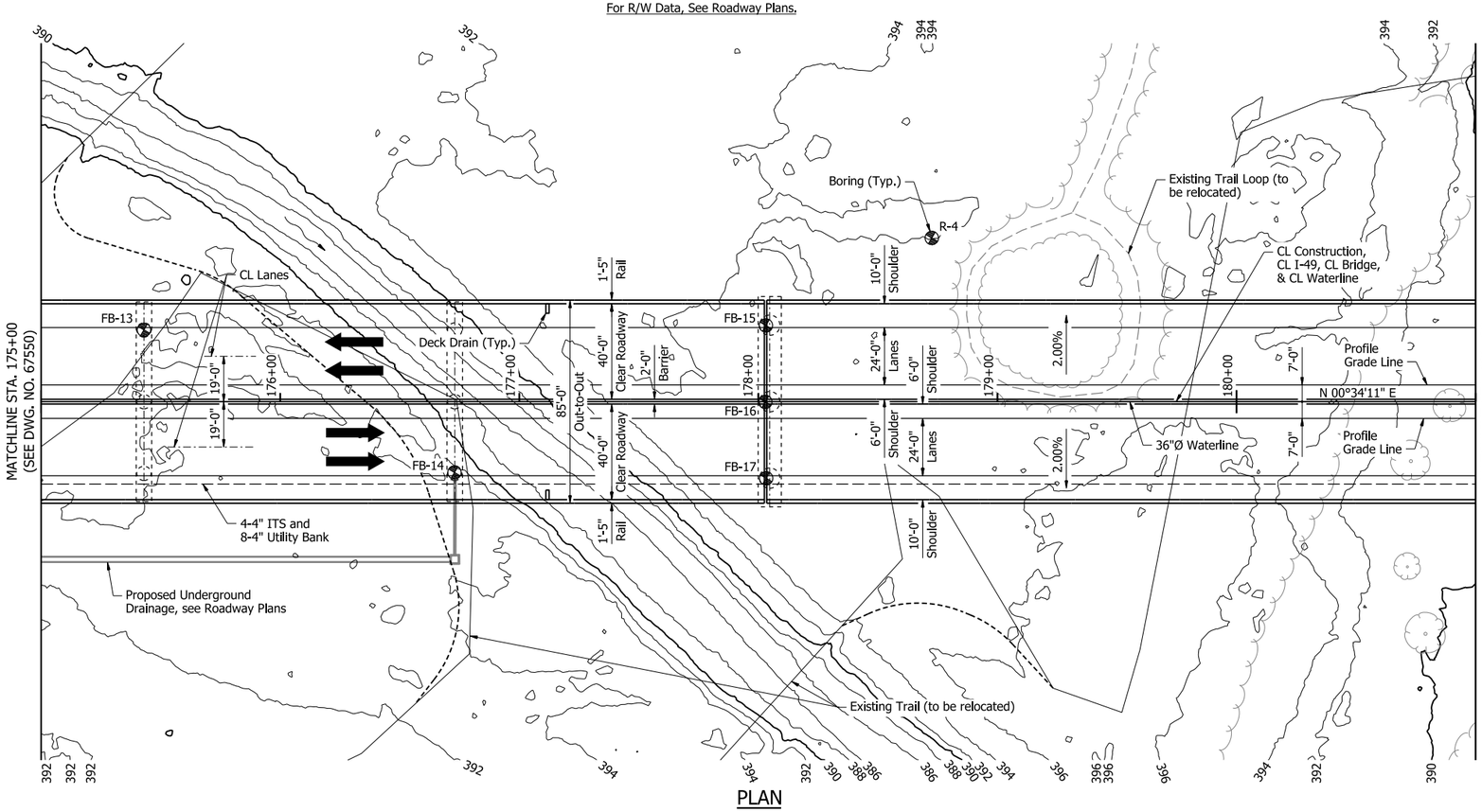
DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 11/21/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_l2.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67550

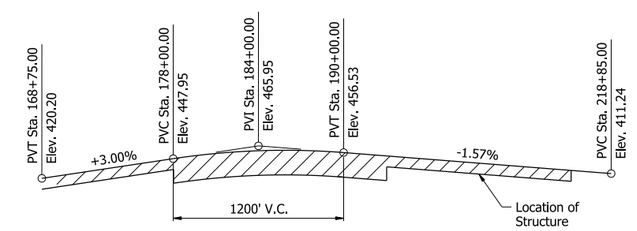
PRINT DATE: 4/11/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	491	809
		07684 - BRIDGE LAYOUTS - 67551				

For R/W Data, See Roadway Plans.



PLAN



VERTICAL ALIGNMENT DATA

(Stations are along CL I-49, Elevations are along Profile Grade Line)

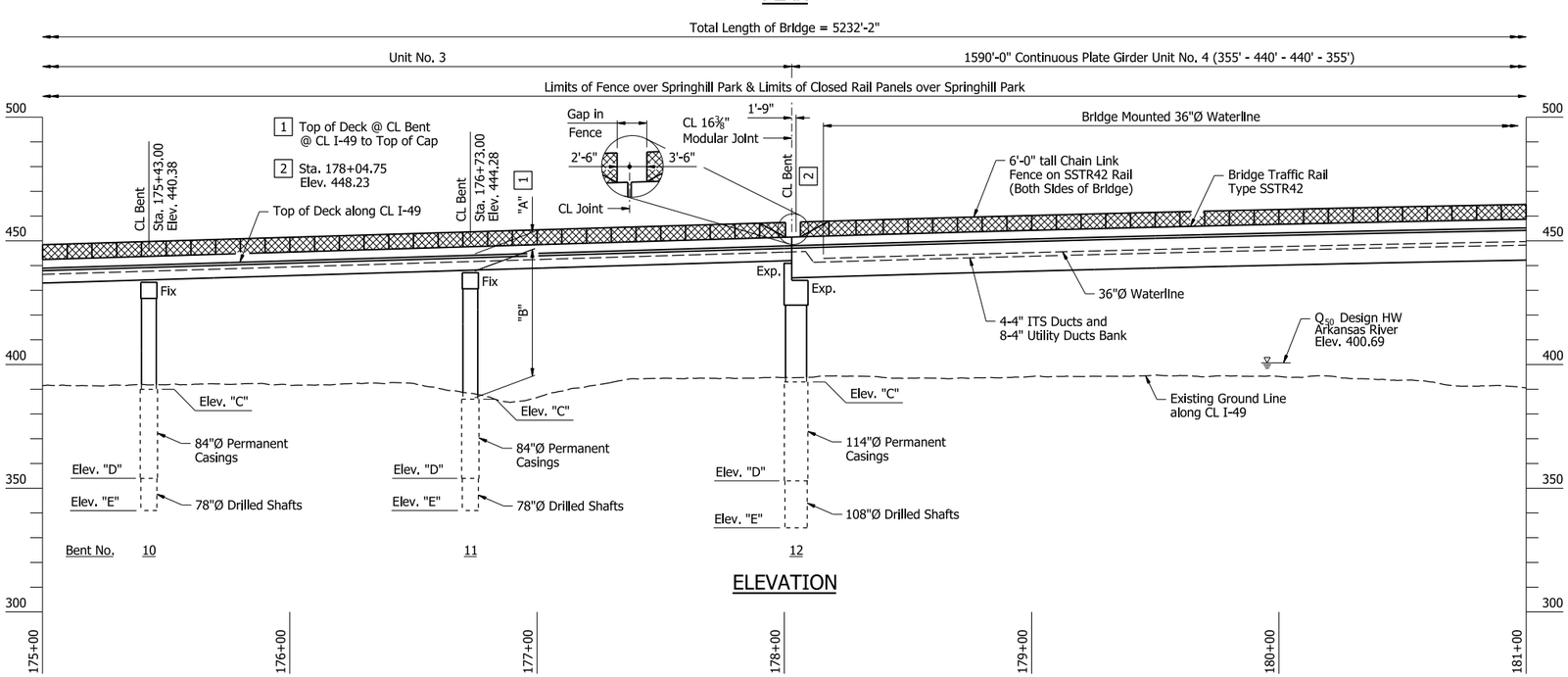
Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of 36"Ø Waterline, see "DETAILS OF INSPECTION ACCESS AND WATERLINE SUPPORTS" and Waterline Plans.

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.

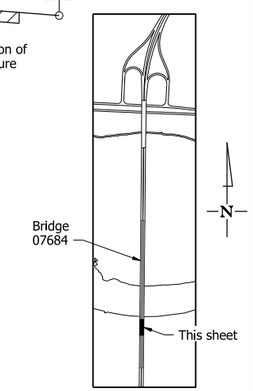


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 10	7'-6⅜"	42'-10¼"	390.00	354.00	341.00
Bent No. 11	7'-5⅝"	50'-9¾"	386.00	354.00	341.00
Bent No. 12	15'-0⅜"	40'-2⅜"	393.00	352.00	329.50



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 3 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

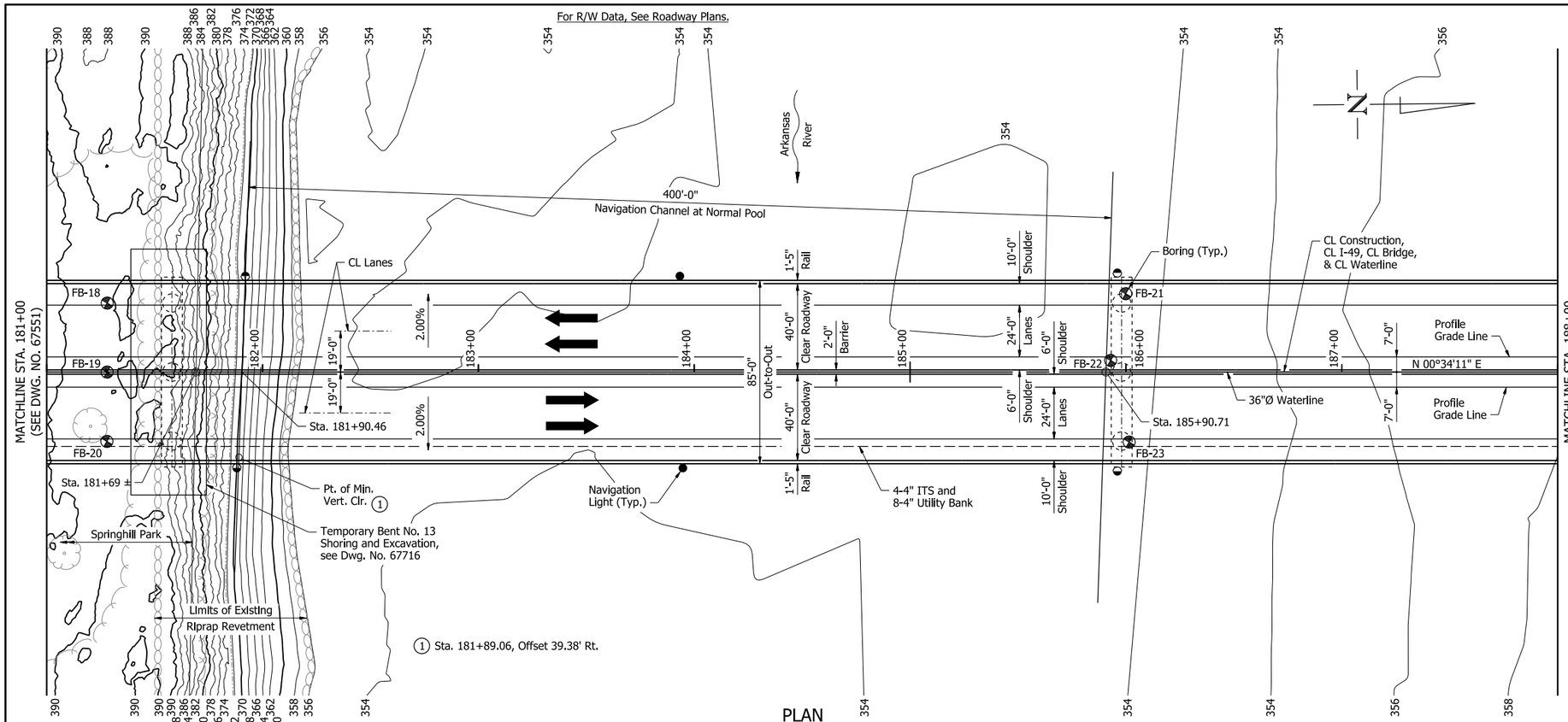
ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 11/21/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_l3.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67551

PRINT DATE: 4/11/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	492	809
		07684 - BRIDGE LAYOUTS - 67552				

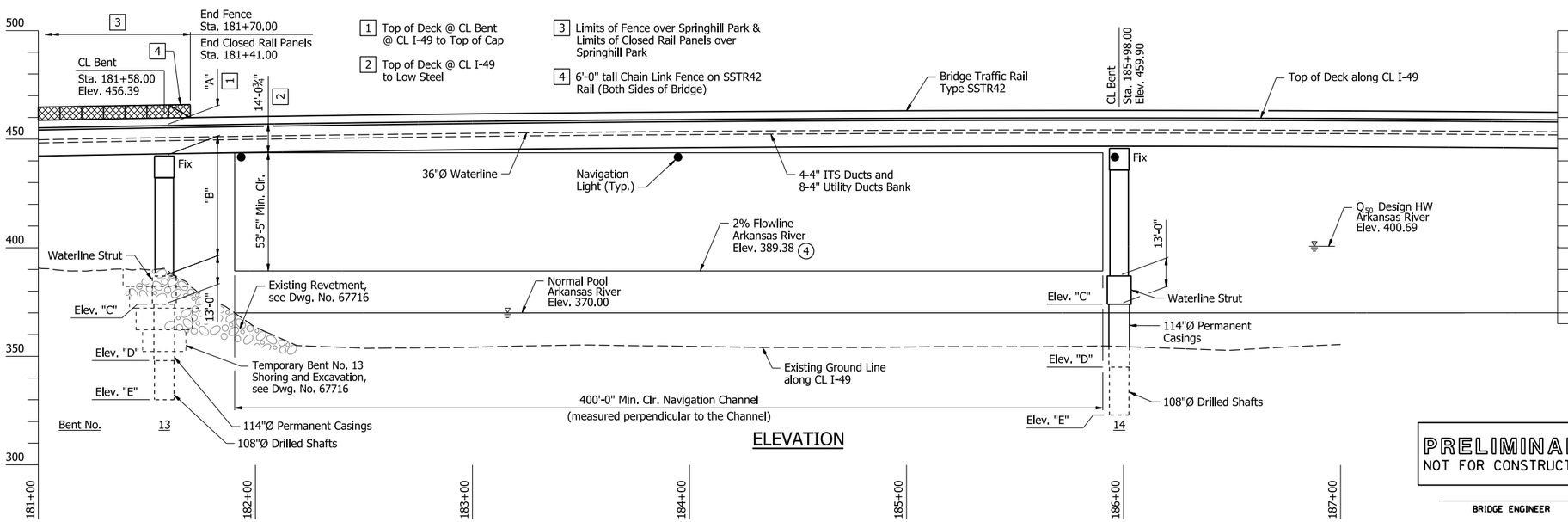


PLAN

Total Length of Bridge = 5232'-2"

Unit No. 4

Bridge Mounted 36"Ø Waterline



ELEVATION

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of Navigation Lighting, see Illumination Plans.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of 36"Ø Waterline, see "DETAILS OF INSPECTION ACCESS AND WATERLINE SUPPORTS" and Waterline Plans.

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	3 TOTAL DISCHARGE	DISCHARGE BRIDGE 07684	2 NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	CFS	FEET	FEET
Design	50	415,000	394,364	401.34	401.36
Base	100	480,000	453,722	403.37	403.37
Extreme	500	600,000	565,525	405.38	405.39
Overtopping	>500	615,000	579,313	405.83	405.85

2 Unconstricted water surface without structure or roadway approaches.

3 The total discharge includes flow at this site and at Bridge 07685 (Flat Rock Creek relief bridge).

4 Based on hydraulic analysis for the final bridge design.

Q100 backwater elevation for existing structure = N/A, no existing structure

Proposed Bridge Low Chord Elevation = 404.92 feet at Station 163+76.50

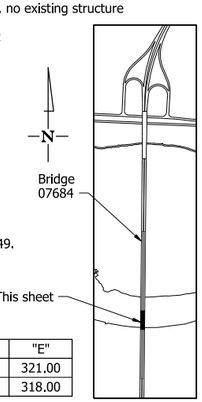
Drainage Area = 151,000 square miles.

Historical H.W. Elev. = 406.96 feet (from upstream USGS stream gage 07250550 on June 1, 2019 with a discharge of 570,000 cfs)

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 13	15'-4¼"	67'-0½"	374.00	348.00	321.00
Bent No. 14	15'-4¼"	70'-6⅝"	374.00	345.00	318.00



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 4 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK	DATE: 6/14/22	FILENAME: b04090121_l4.dgn	
CHECKED BY: CPS	DATE: 12/1/23	SCALE: 1" = 30'-0"	
DESIGNED BY: NAM	DATE: 5/15/22		

BRIDGE NO. 07684 DRAWING NO. 67552

PRINT DATE: 4/11/2024

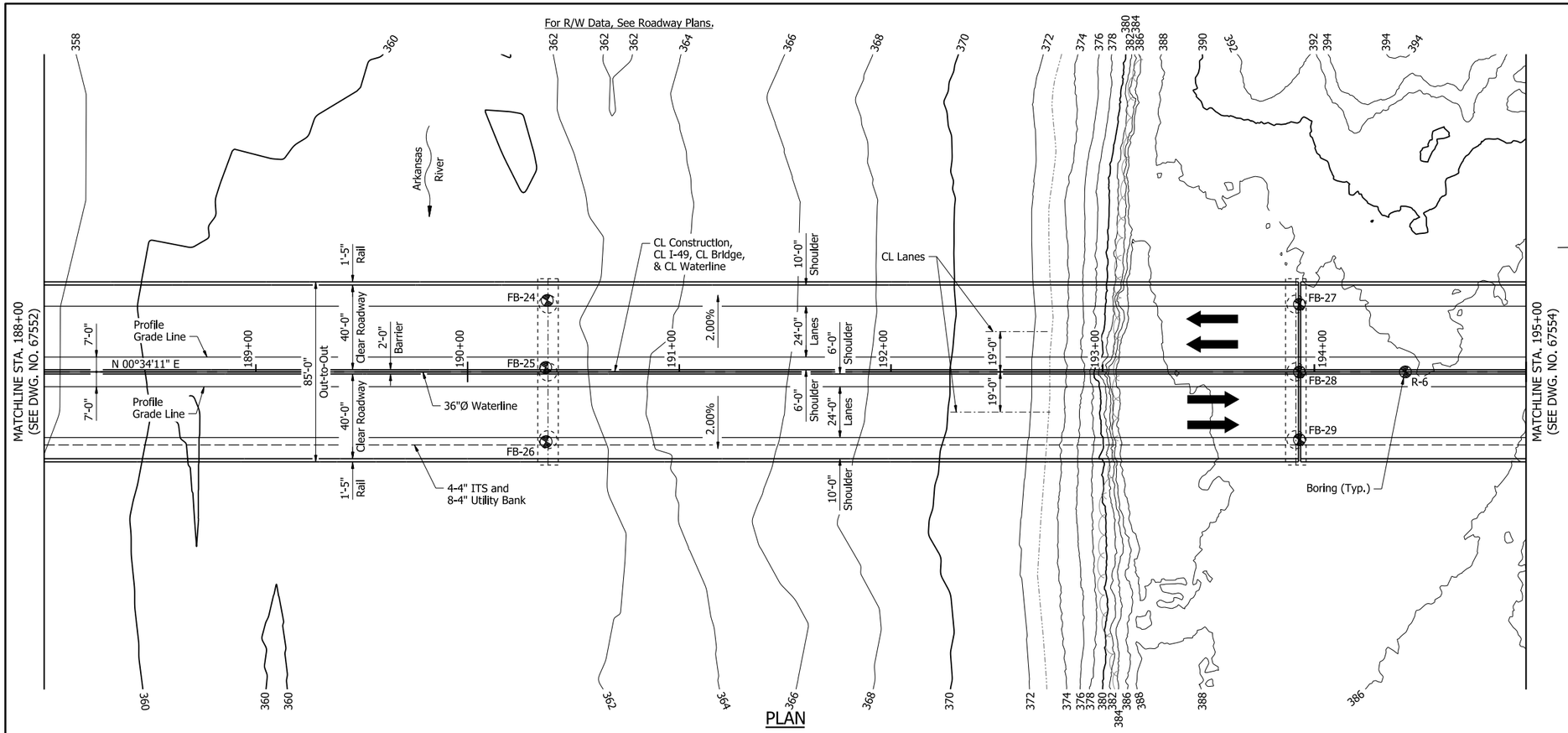
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	493	809
		07684 - BRIDGE LAYOUTS - 67553				

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of 36"Ø Waterline, see "DETAILS OF INSPECTION ACCESS AND WATERLINE SUPPORTS" and Waterline Plans.



PLAN

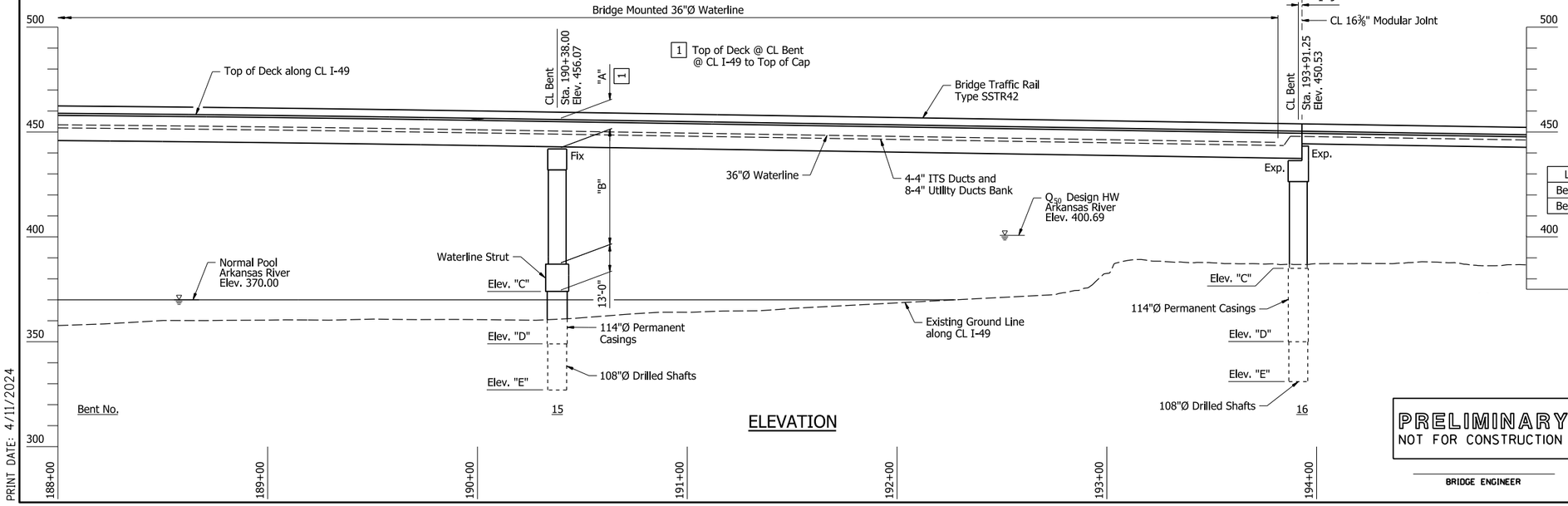
Total Length of Bridge = 5232'-2"

Unit No. 4 | Unit No. 5

1'-9"

Bridge Mounted 36"Ø Waterline

CL 16⅜" Modular Joint

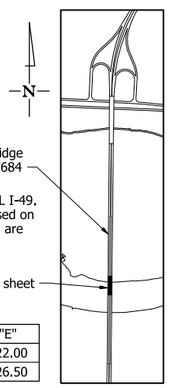


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 15	15'-4⅛"	66'-8¾"	374.00	349.00	322.00
Bent No. 16	15'-0⅝"	50'-5¾"	385.00	349.00	326.50



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 5 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: CPS DATE: 12/1/23
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_I5.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67553

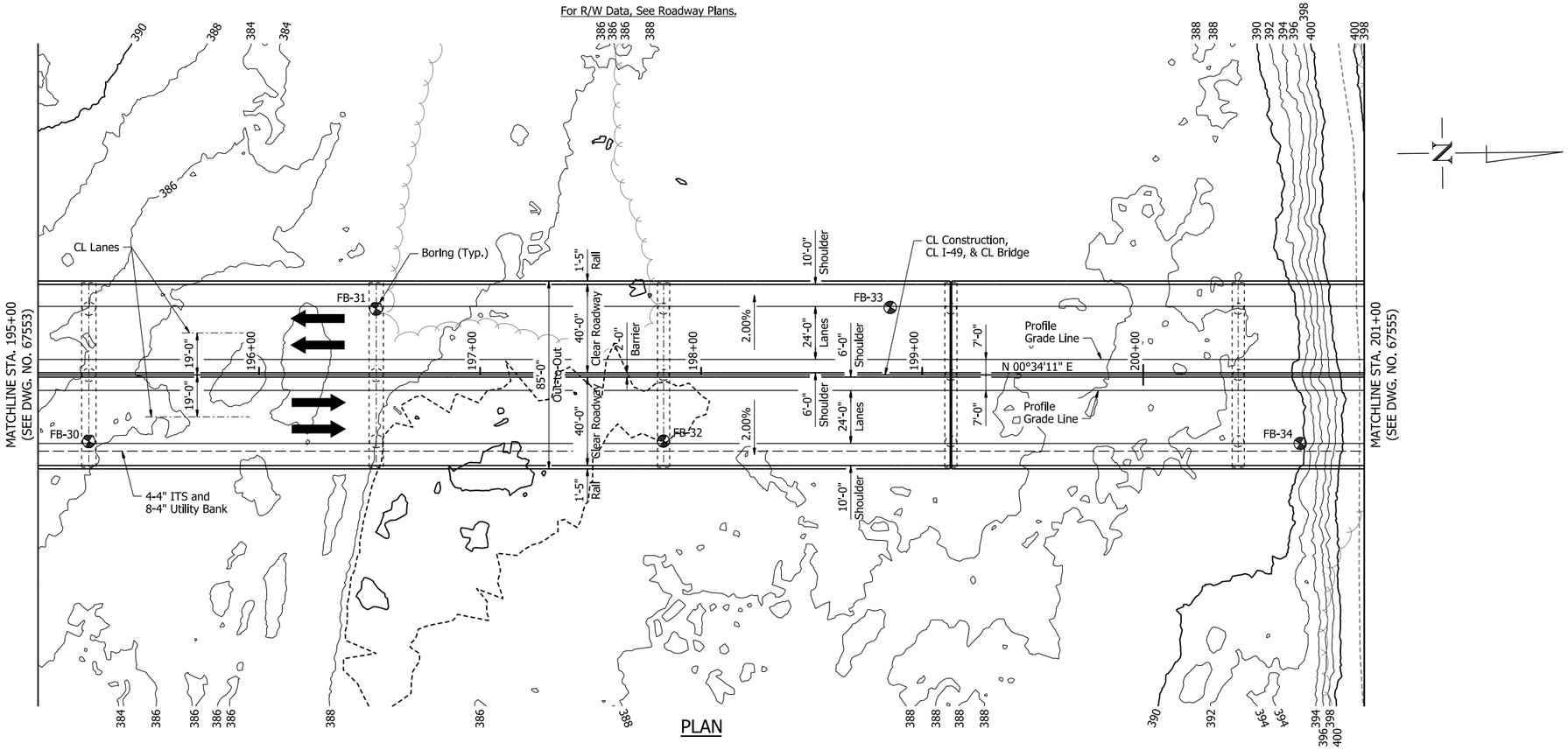
PRINT DATE: 4/11/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	494	809
		07684 - BRIDGE LAYOUTS - 67554				

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

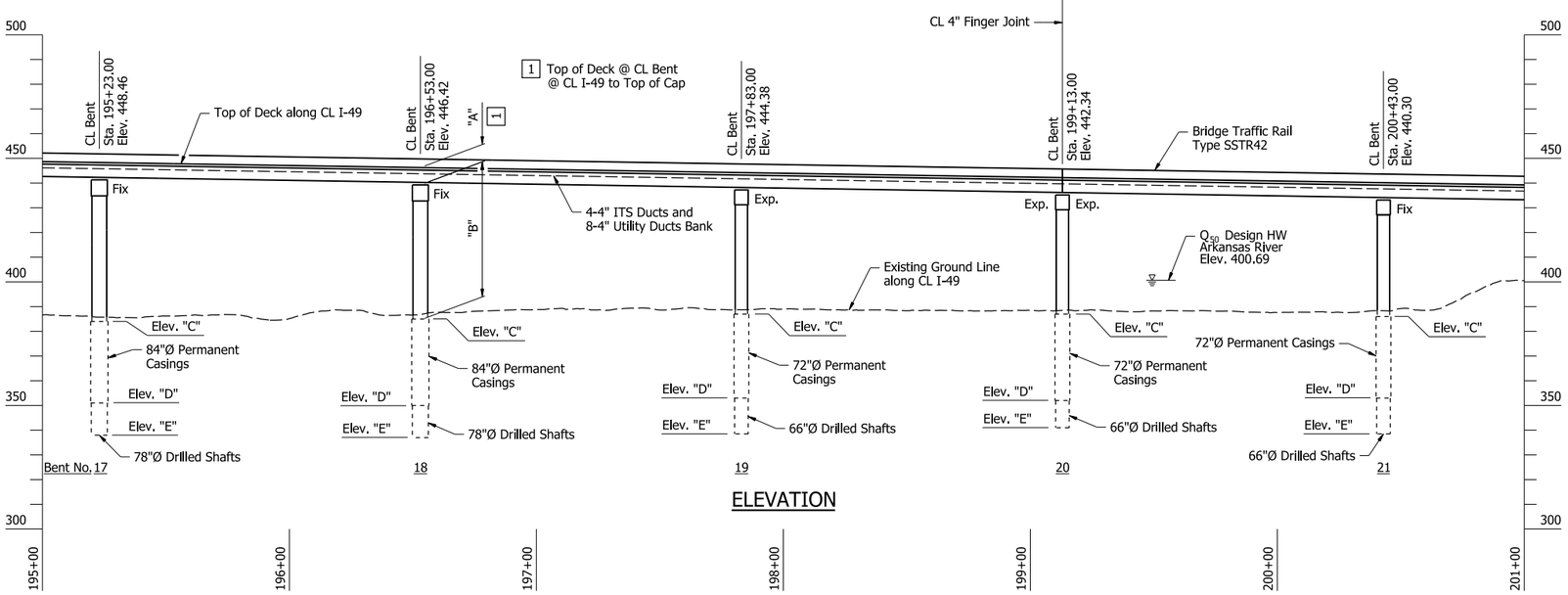
For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".



Total Length of Bridge = 5232'-2"

520'-0" Continuous Plate Girder Unit No. 5 (130' - 130' - 130' - 130')

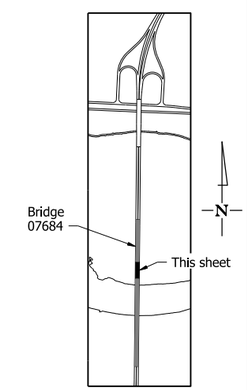
520'-0" Continuous Plate Girder Unit No. 6 (130' - 130' - 130' - 130')



Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 17	7'-5¾"	56'-11¾"	384.00	352.00	334.50
Bent No. 18	7'-6½"	53'-10½"	385.00	351.00	333.50
Bent No. 19	7'-6⅜"	49'-10¼"	387.00	353.00	338.50
Bent No. 20	7'-8⅜"	47'-7⅞"	387.00	352.00	337.50
Bent No. 21	7'-5¾"	46'-9⅞"	386.00	353.00	338.50



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 6 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: NAM DATE: 8/9/22
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_l6.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67554

PRINT DATE: 4/11/2024

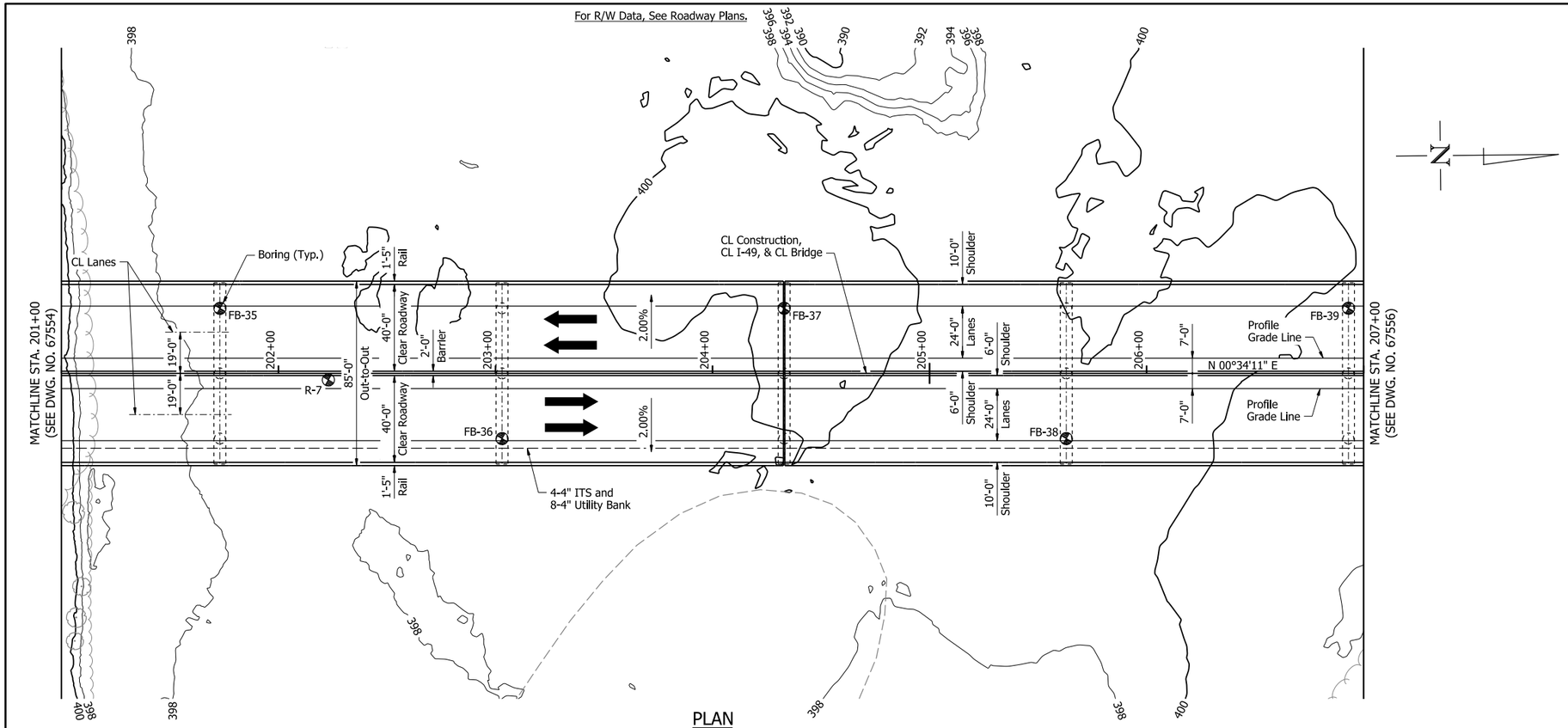
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	495	809
		07684 - BRIDGE LAYOUTS - 67555				

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

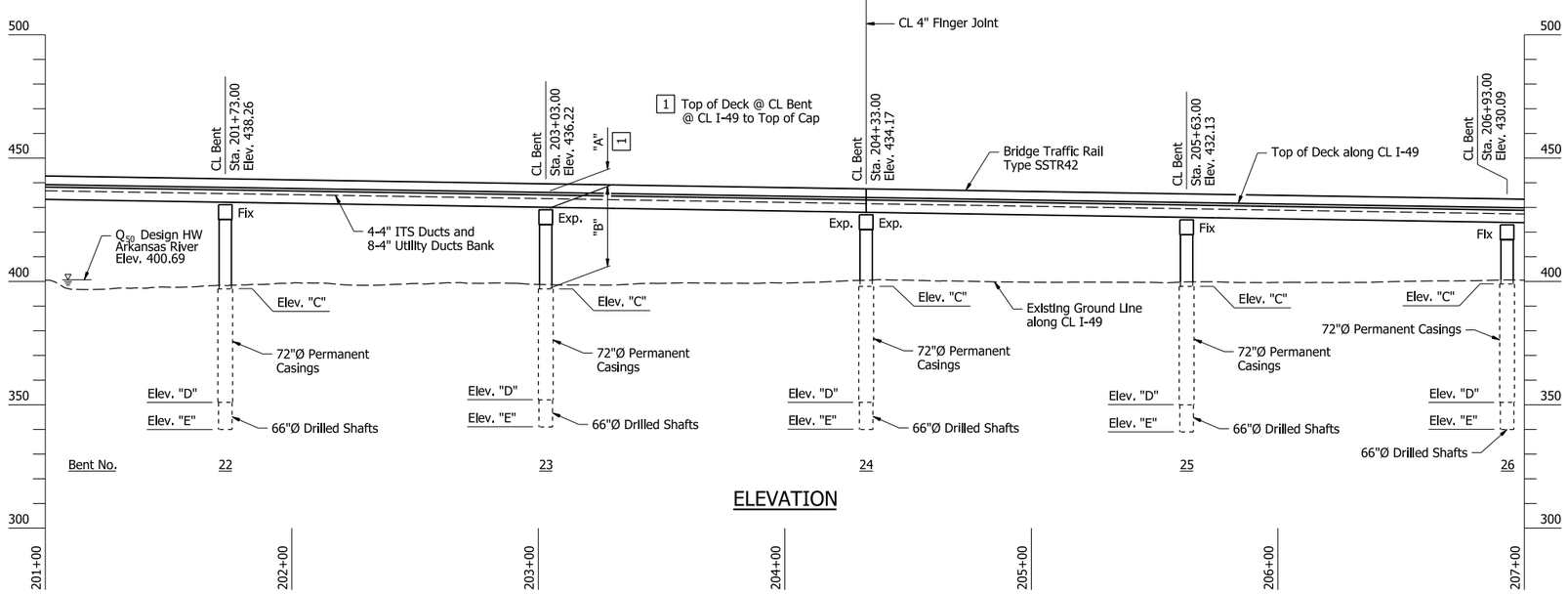
For R/W Data, See Roadway Plans.



PLAN

Total Length of Bridge = 5232'-2"

Unit No. 6 | 390'-0" Continuous Plate Girder Unit No. 7 (130' - 130' - 130')

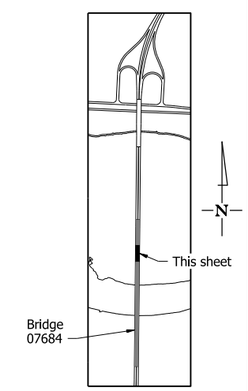


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 22	7'-6½"	33'-8⅝"	397.00	351.00	340.00
Bent No. 23	7'-6⅜"	31'-8¼"	397.00	352.00	341.00
Bent No. 24	7'-7¾"	28'-6¼"	398.00	351.00	340.00
Bent No. 25	7'-4¾"	26'-8¾"	398.00	350.00	339.00
Bent No. 26	7'-4¾"	23'-8¼"	399.00	351.00	340.00



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 7 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: NAM DATE: 8/9/22
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_l7.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67555

PRINT DATE: 4/11/2024

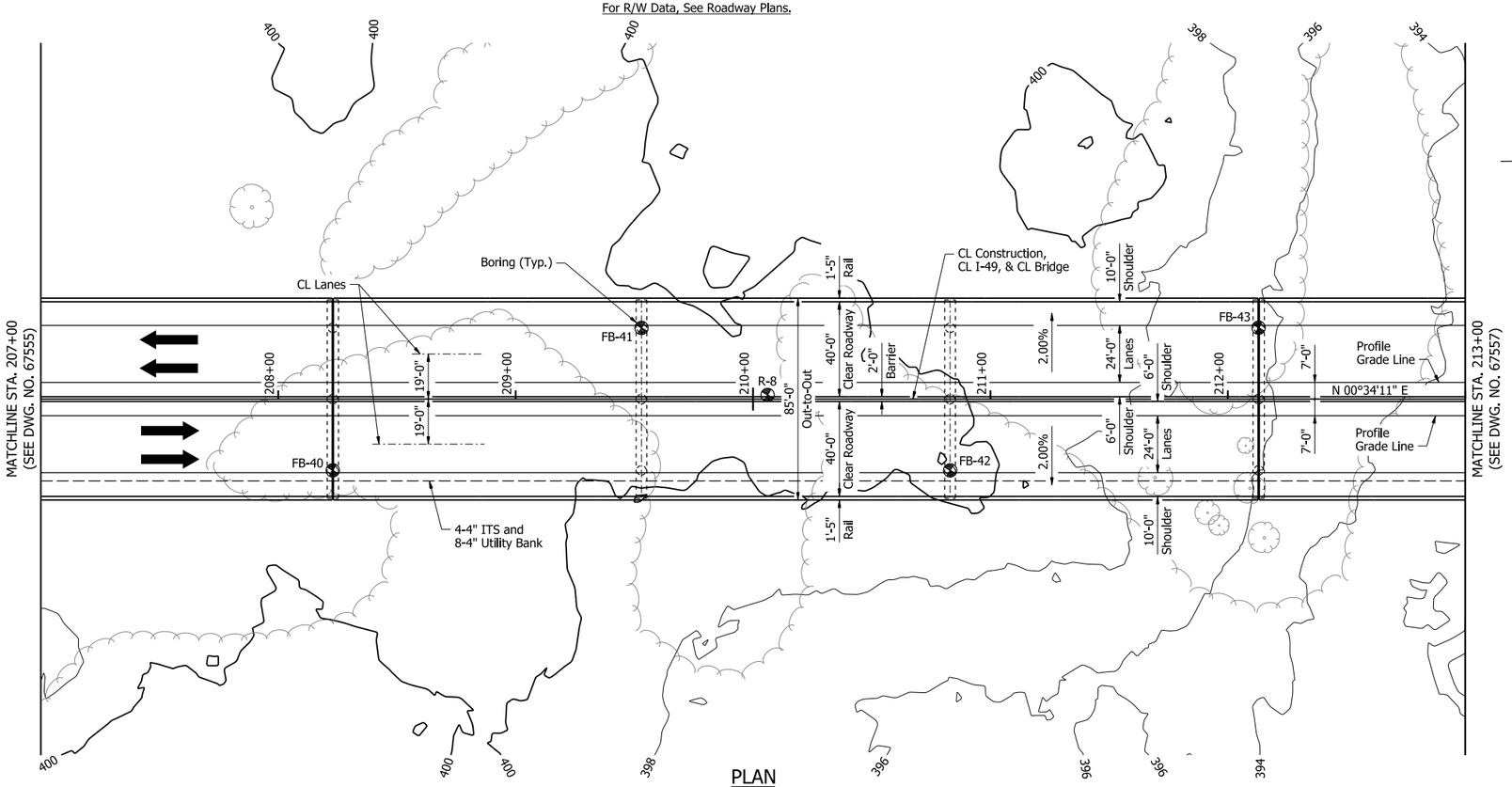
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	496	809
		07684 - BRIDGE LAYOUTS - 67556				

Notes:
For General Notes, see Dwg. No. 67372.

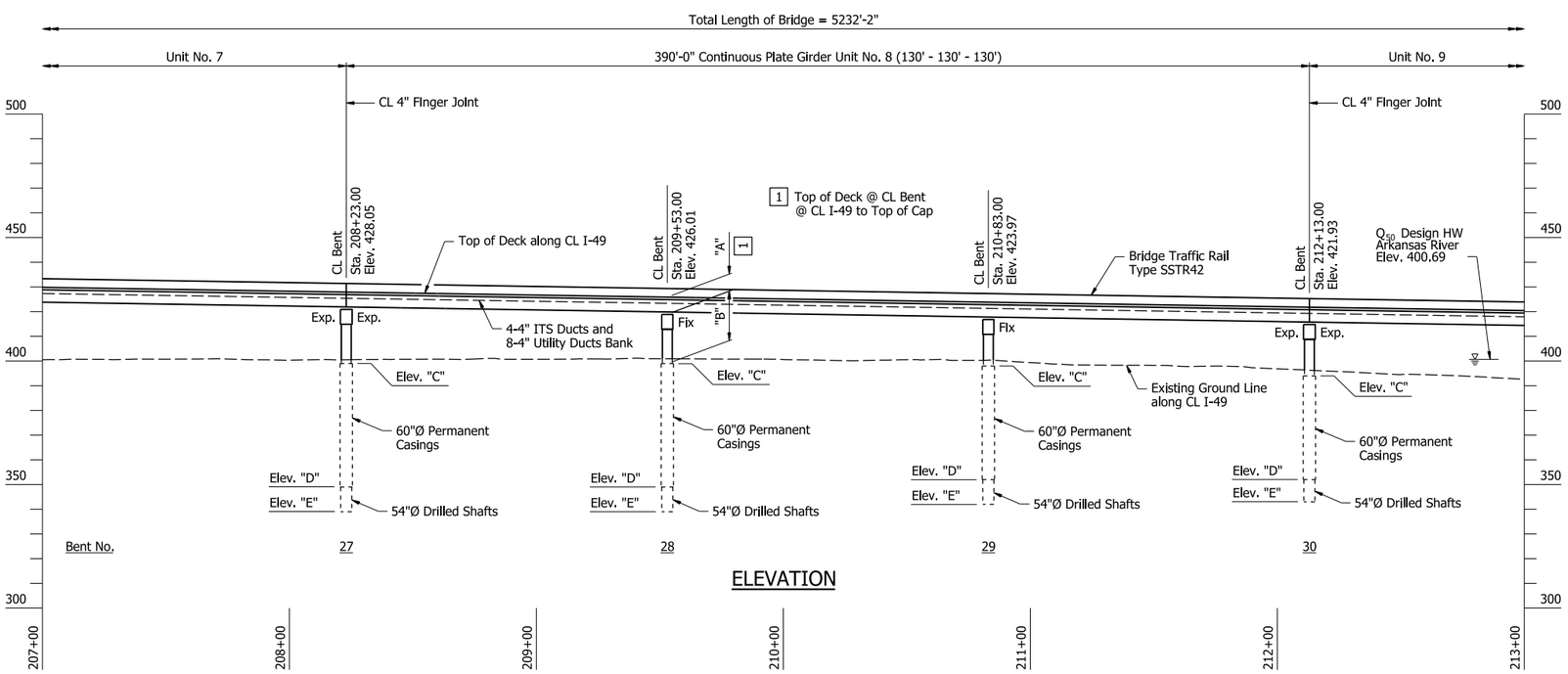
All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For R/W Data, See Roadway Plans.



PLAN

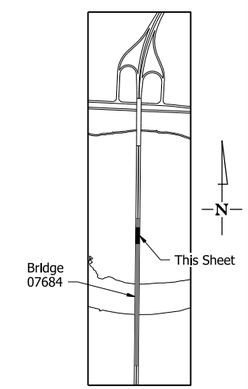


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 27	7'-7"	21'-5⅝"	399.00	349.00	339.00
Bent No. 28	7'-4¾"	19'-7⅜"	399.00	349.00	339.00
Bent No. 29	7'-4⅞"	18'-6¾"	398.00	352.00	342.00
Bent No. 30	7'-7"	20'-4¼"	394.00	352.00	343.00



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 8 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

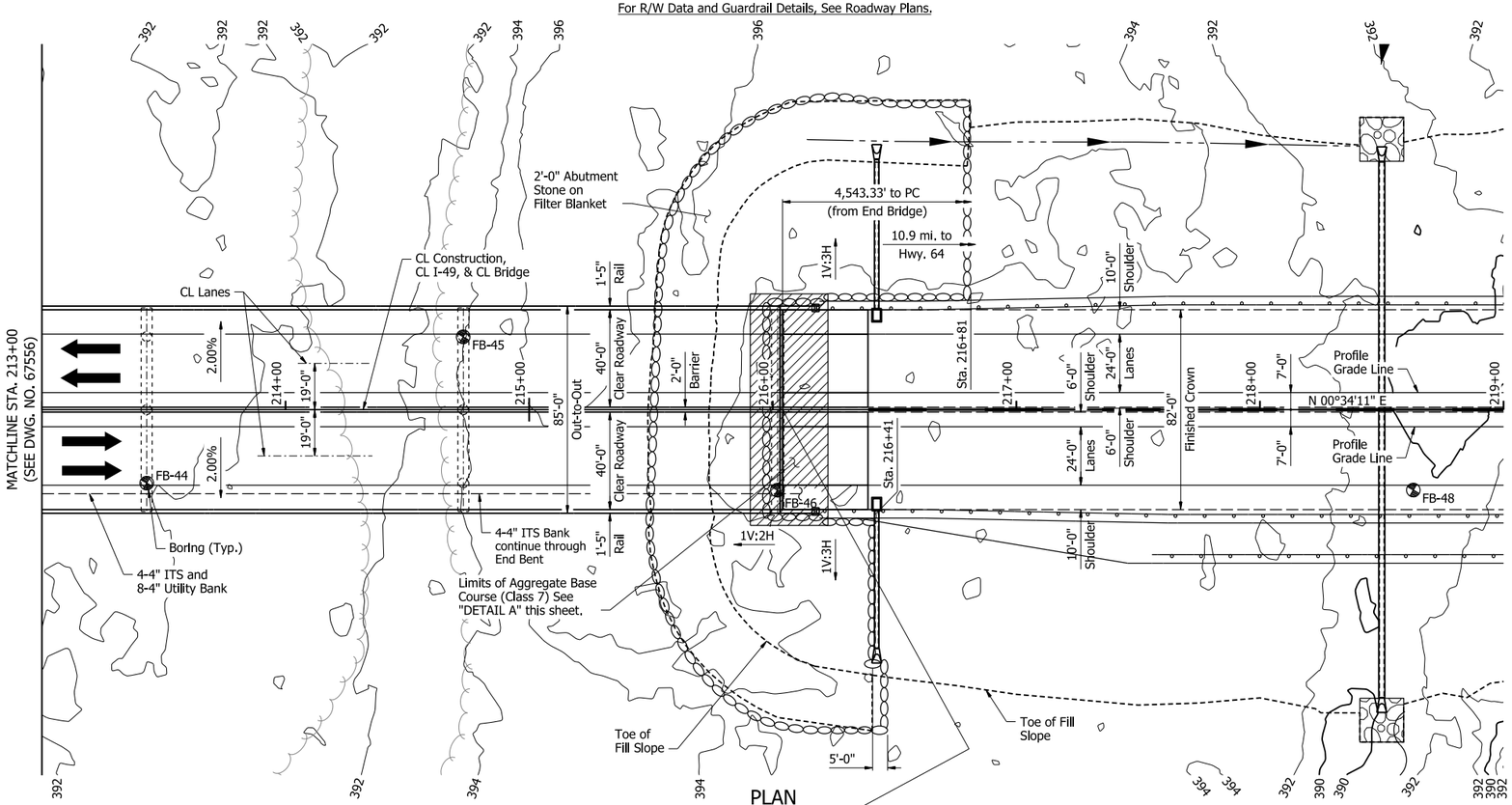
DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: NAM DATE: 8/9/22
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_l8.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67556

PRINT DATE: 4/11/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	497	809
		07684 - BRIDGE LAYOUTS - 67557				

For R/W Data and Guardrail Details, See Roadway Plans.



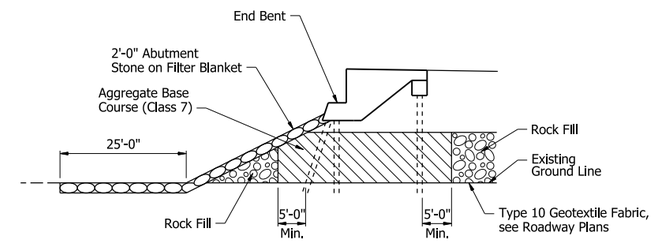
PLAN

Notes:
Use Type F Approach Gutters, Type F Approach Slabs (W=36'-0") and Type 1 Special Median Approach Slab (W=6'-0") at end of bridge. See Dwg. No. 67712 for Bridge Approach Details.

For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

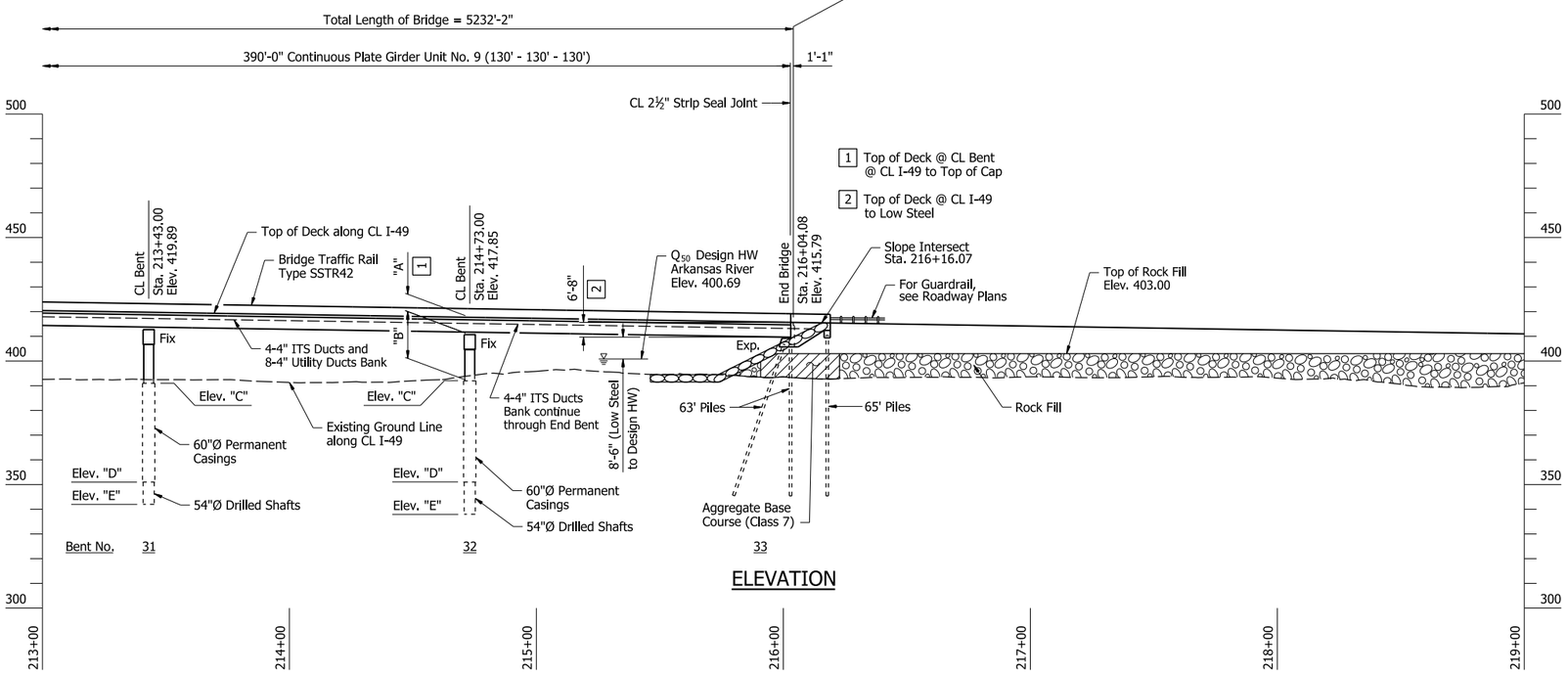


Where rock fill is used for embankment construction, aggregate base course (Class 7), in accordance with Section 303.02, shall be placed as shown in areas where piling will be located. Aggregate base course (Class 7) shall be paid for as "Rock Fill".

At the Contractor's option, preboring or other methods as approved by the Engineer may be used to facilitate pile installation thru the aggregate base course (Class 7) material at these locations. Preboring or other methods used for installation of piles where rock fill is used for embankment construction will not be paid for separately, but shall be included in item "Steel Piling".

DETAIL A

No Scale

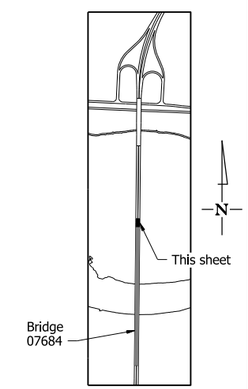


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 31	7'-4⅞"	21'-5¾"	391.00	351.00	342.00
Bent No. 32	7'-4⅞"	18'-5¼"	392.00	351.00	338.00



SITE PLAN

No Scale

ALTERNATE NO. 2
SHEET 9 OF 10
LAYOUT OF BRIDGE
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: CTK DATE: 6/14/22
CHECKED BY: NAM DATE: 8/9/22
DESIGNED BY: NAM DATE: 5/15/22
FILENAME: b04090121_I9.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07684 DRAWING NO. 67557

PRINT DATE: 4/11/2024

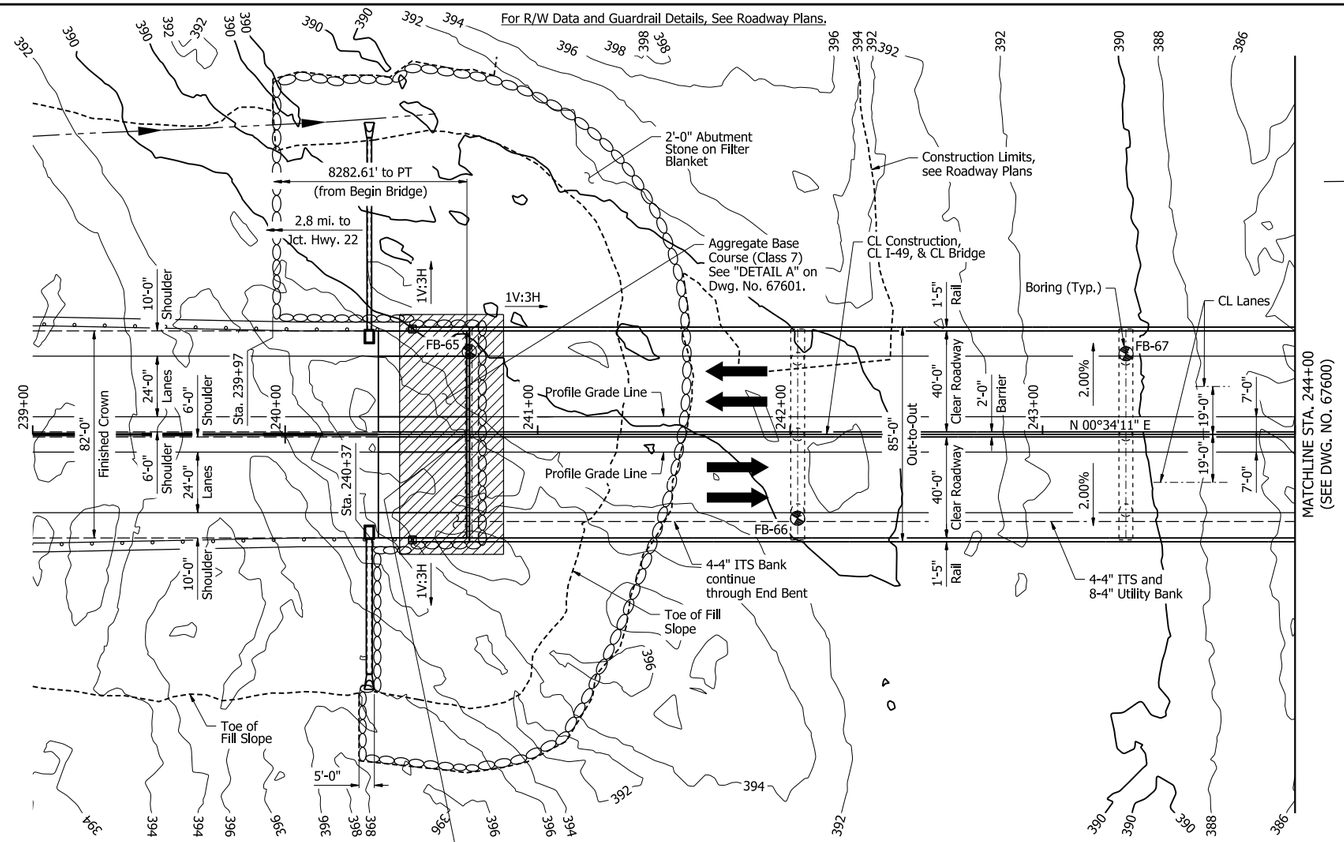
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	539	809
		07685 - BRIDGE LAYOUTS - 67599				

Notes:
Use Type F Approach Gutters & Type F Approach Slab at beginning of bridge.

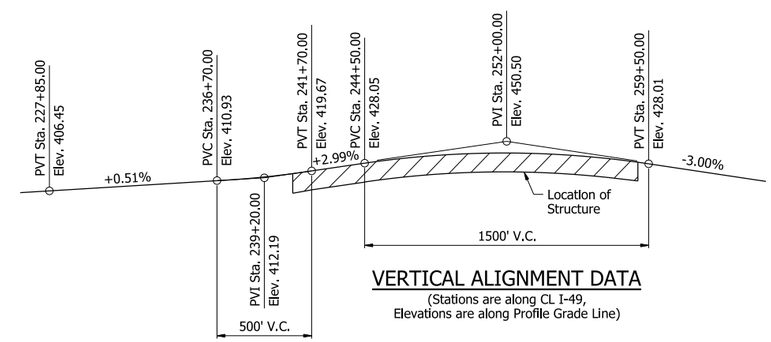
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".



PLAN



VERTICAL ALIGNMENT DATA

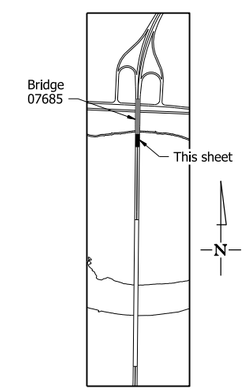
(Stations are along CL I-49, Elevations are along Profile Grade Line)

ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 2	7'-5¾"	26'-3⅞"	387.00	348.00	322.00
Bent No. 3	7'-6½"	28'-1¾"	389.00	345.00	321.00



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 1 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

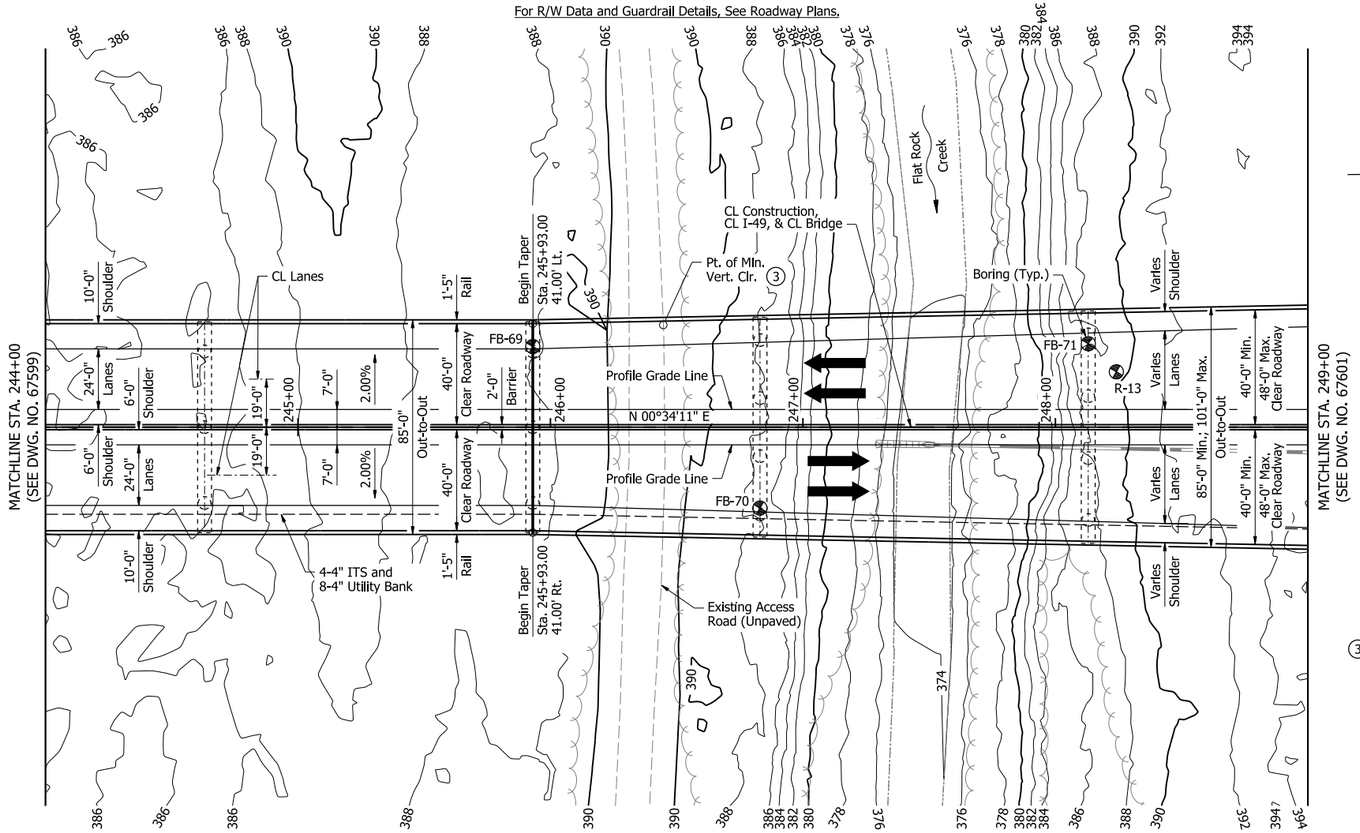
DRAWN BY: CTK DATE: 12/19/22
CHECKED BY: QL DATE: 11/27/23
DESIGNED BY: BTJ DATE: 12/2/22
FILENAME: b040901216_I1.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07685 DRAWING NO. 67599

PRINT DATE: 4/11/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	540	809
		07685 - BRIDGE LAYOUTS - 67600				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	TOTAL 1 DISCHARGE	DISCHARGE BRIDGE 07685	2 NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	CFS	FEET	FEET
Design	50	415,000	20,636	401.34	401.36
Base	100	480,000	26,278	403.37	403.37
Extreme	500	600,000	34,475	405.38	405.39
Overtopping	>500	615,000	35,687	405.83	405.85

1 The total discharge includes flow at this site and at Bridge 07684 (Arkansas River Channel)

2 Unconstricted water surface without structure or roadway approaches.

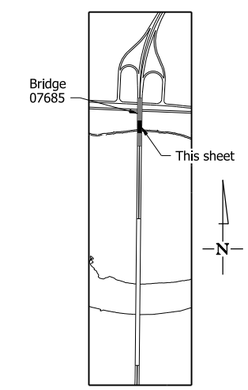
Q100 backwater elevation for existing structure = N/A, no existing structure

Proposed Bridge Low Chord Elevation = 410.52 feet at Station 240+75.25.

Drainage Area (Bridge 07684 and 07685) = 151,000 square miles.

Historical H.W. Elev. = 406.96 feet (from upstream USGS stream gage 07250550 on June 1, 2019 with a discharge of 570,000 cfs)

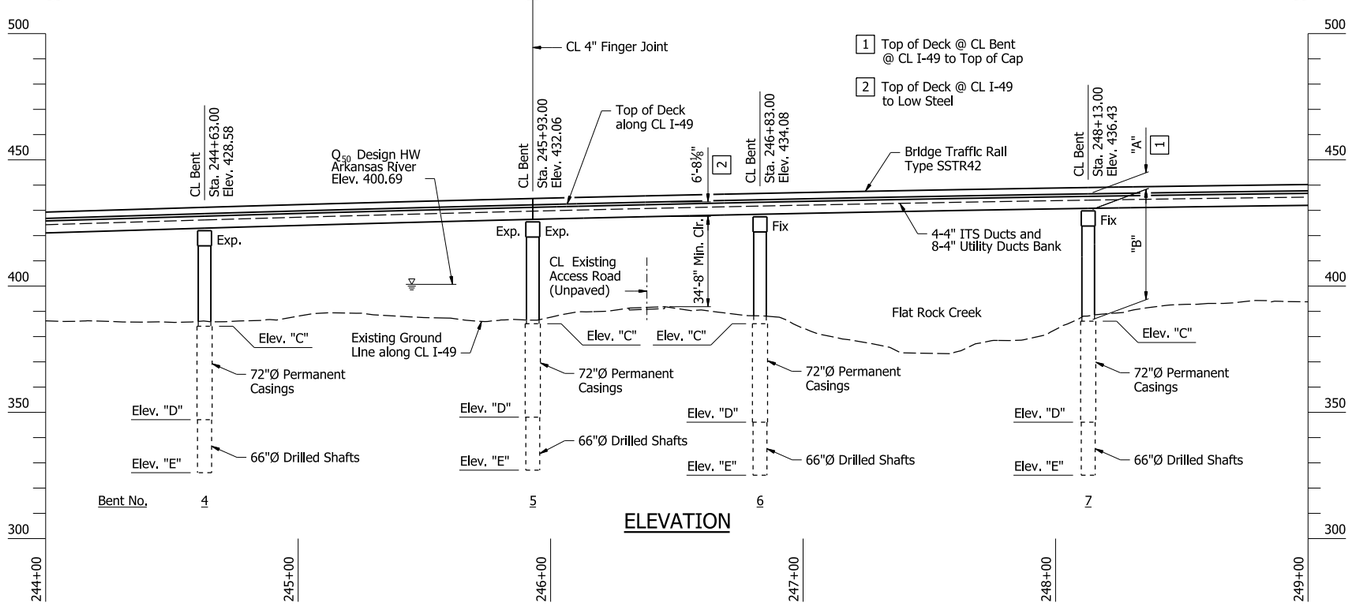
3 Sta. 246+44.74, Offset 40.32' Lt.



SITE PLAN
No Scale

Total Length of Bridge = 1822'-2"

Unit No. 1 | 420'-0" Continuous Plate Girder Unit No. 2 (90' - 130' - 100' - 100')



ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 4	7'-6⅜"	37'-0⅝"	384.00	345.00	321.00
Bent No. 5	7'-8¼"	39'-4½"	385.00	348.00	334.00
Bent No. 6	7'-6"	41'-7"	385.00	346.00	331.00
Bent No. 7	7'-6¾"	42'-10½"	386.00	346.00	331.00

ALTERNATE NO. 2
SHEET 2 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

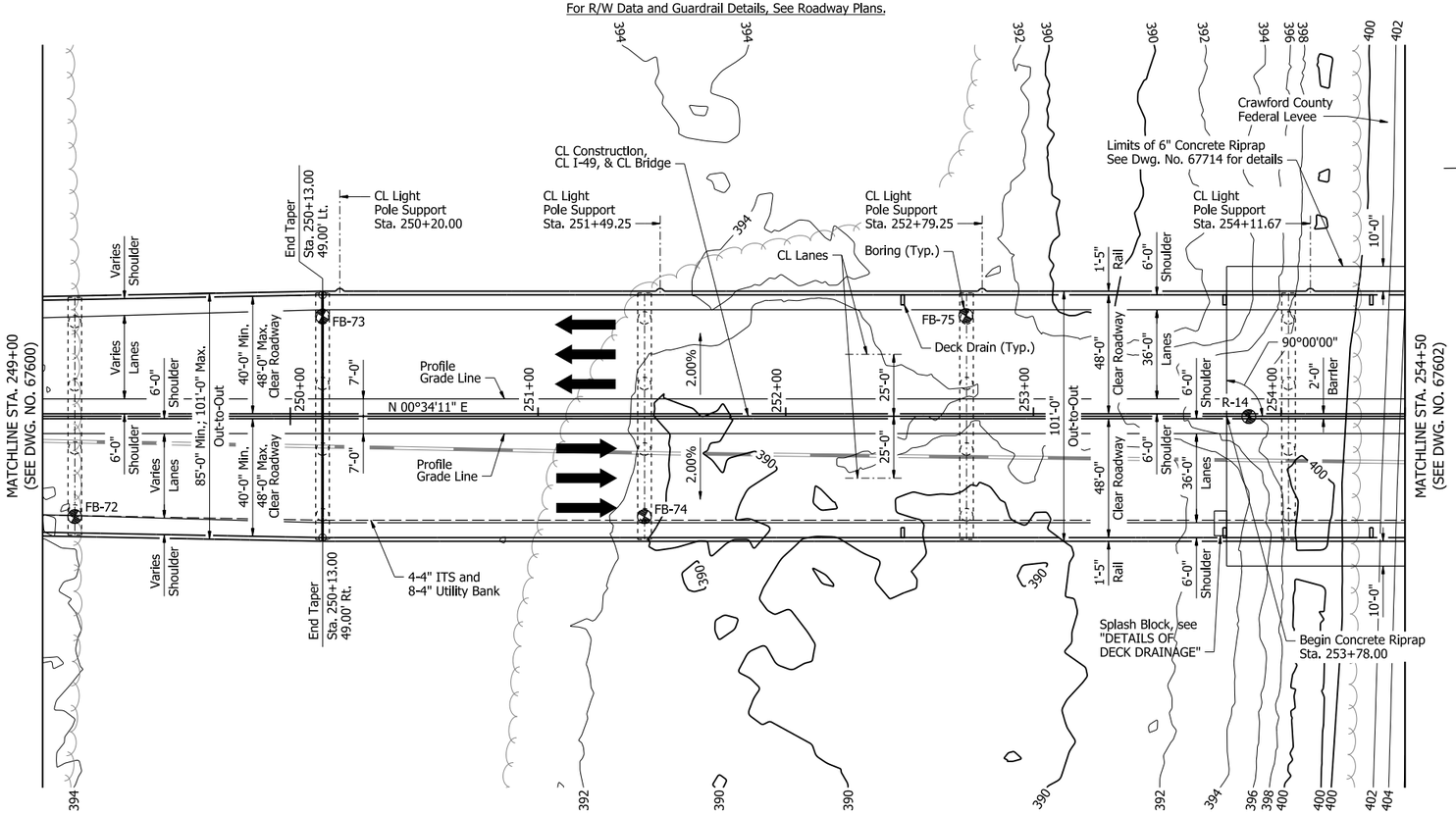
DRAWN BY: CTK DATE: 12/19/22
CHECKED BY: QL DATE: 11/27/23
DESIGNED BY: BTJ DATE: 12/2/22
FILENAME: b040901216_l2.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07685 DRAWING NO. 67600

PRINT DATE: 4/11/2024

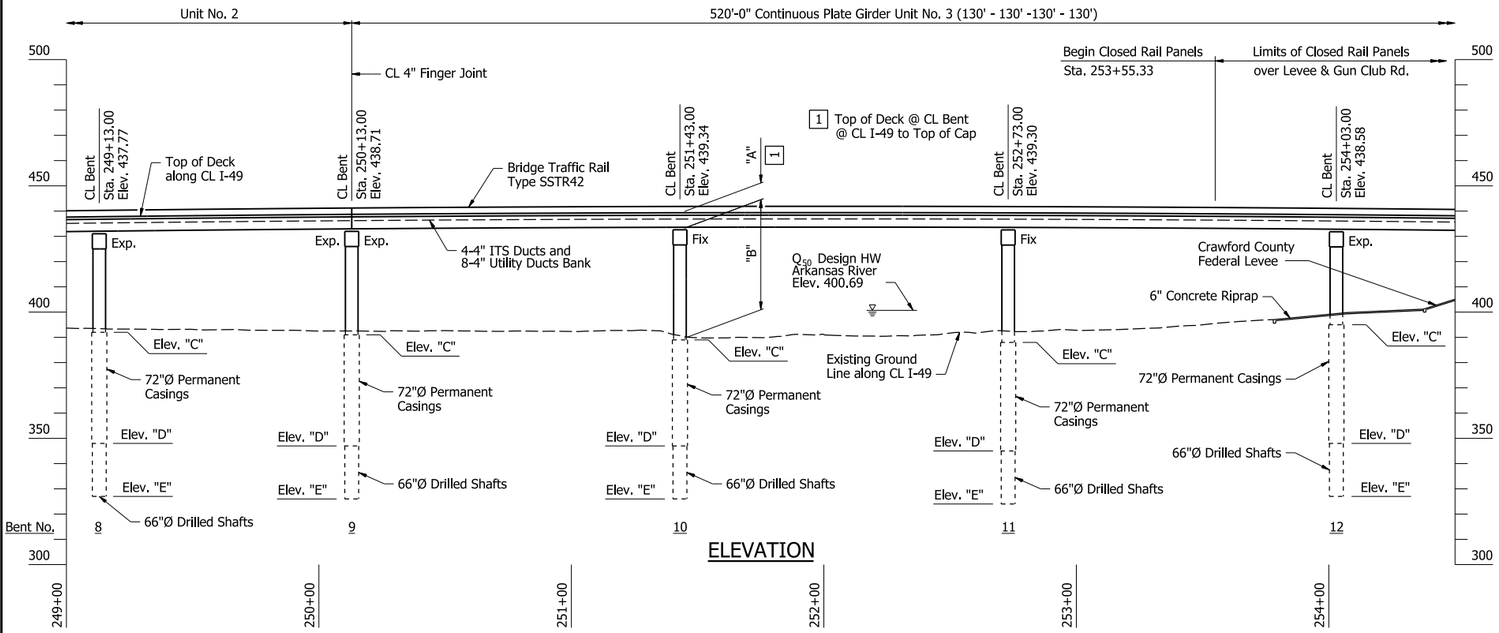
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	541	809
		07685 - BRIDGE LAYOUTS - 67601				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Total Length of Bridge = 1822'-2"



ELEVATION

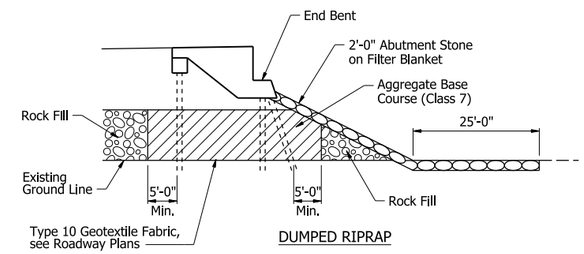
Notes:
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

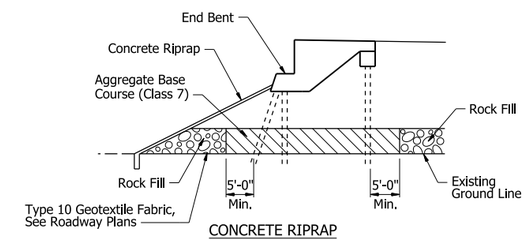
For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

For details of Light Pole Support, see Dwg. No. 67686.

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.



DUMPED RIPRAP



CONCRETE RIPRAP

Where rock fill is used for embankment construction, aggregate base course (Class 7), in accordance with Section 303.02, shall be placed as shown in areas where piling will be located. Aggregate base course (Class 7) shall be paid for as "Rock Fill".

At the Contractor's option, preboring or other methods as approved by the Engineer may be used to facilitate pile installation thru the aggregate base course (Class 7) material at these locations. Preboring or other methods used for installation of piles where rock fill is used for embankment construction will not be paid for separately, but shall be included in item "Steel Piling".

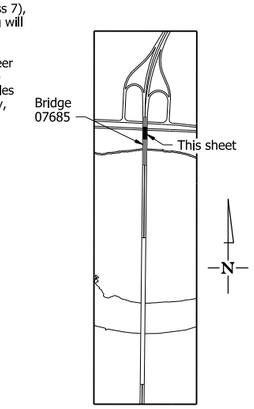
DETAIL A

No Scale

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 8	7'-7¼"	38'-2"	392.00	348.00	331.00
Bent No. 9	7'-10"	39'-10½"	391.00	347.00	332.00
Bent No. 10	7'-8⅜"	42'-7⅝"	389.00	347.00	332.00
Bent No. 11	7'-8⅜"	43'-7½"	388.00	345.00	330.00
Bent No. 12	7'-8½"	35'-10½"	395.00	342.00	327.00



SITE PLAN

No Scale

ALTERNATE NO. 2
SHEET 3 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

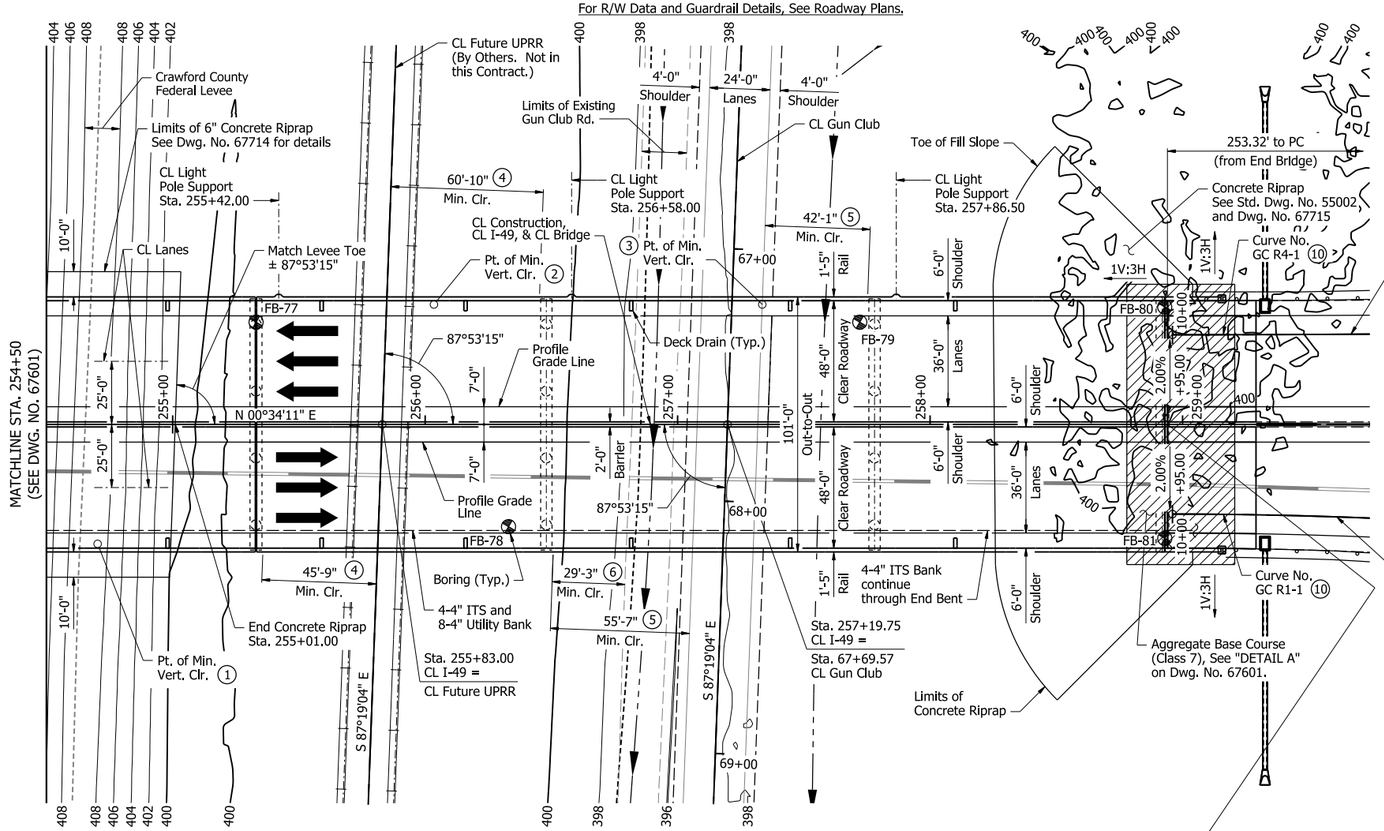
DRAWN BY: CTK DATE: 12/19/22
CHECKED BY: QL DATE: 11/27/23
DESIGNED BY: BTJ DATE: 12/2/22
FILENAME: b040901216_l3.dgn
SCALE: 1" = 30'-0"

BRIDGE NO. 07685 DRAWING NO. 67601

PRINT DATE: 4/11/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	542	809
		07685 - BRIDGE LAYOUTS - 67602				

For R/W Data and Guardrail Details, See Roadway Plans.



PLAN

Notes:
Use Type F Approach Gutters & Type F Approach Slab at end of bridge.

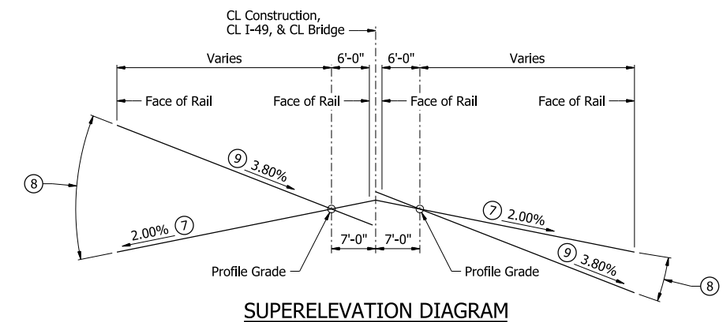
For General Notes, see Dwg. No. 67372.

All bents are normal to CL I-49.

For details of ITS and Utility Banks, see "ITS AND UTILITY BANK DETAILS".

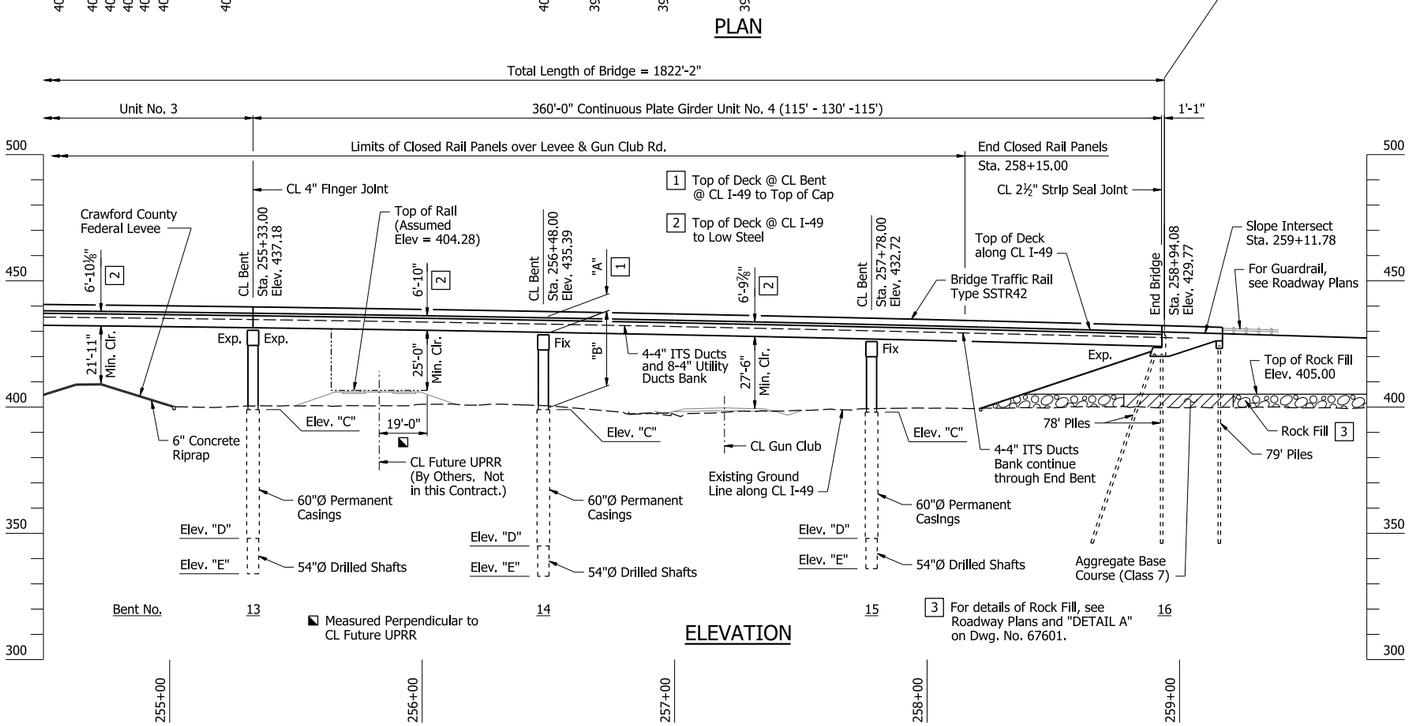
For details of Light Pole Support, see Dwg. No. 67686.

For "DETAILS OF DECK DRAINAGE", see Dwg. Nos. 67707 thru 67711.



SUPERELEVATION DIAGRAM
Looking Ahead

1. Sta. 254+63.25, Offset 47.50' Rt.
2. Sta. 256+03.77, Offset 47.50' Lt.
3. Sta. 257+33.51, Offset 47.50' Lt.
4. Min. Clear from CL Future UPRR to face of capbeam.
5. Min. Clear from edge of proposed lane to face of capbeam.
6. Min. Clear from edge of existing lane to face of capbeam.
7. Cross Slope constant 2.00% (Sta. 160+52.00 to Sta. 258+95.00)
8. Cross Slope varies from 2.00% (Sta. 258+95.00) to 3.80% (Sta. 262+45.00)
9. Cross Slope constant 3.80% (Sta. 262+45.00 to Sta. 320+50.00)
10. See Roadway for ramp curve data

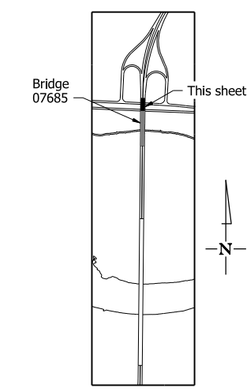


ELEVATION

Note:
Elevations shown are actual top of deck elevations at CL I-49. Any vertical dimension referenced to Top of Deck is based on actual top of deck elevation at CL I-49. Stations shown are along CL I-49.

TABLE OF VARIABLES

Location	"A"	"B"	"C"	"D"	"E"
Bent No. 13	7'-10"	30'-4¼"	399.00	348.00	336.50
Bent No. 14	7'-7⅛"	28'-9⅝"	399.00	345.00	333.50
Bent No. 15	7'-7"	27'-1⅝"	398.00	348.00	336.50



SITE PLAN
No Scale

ALTERNATE NO. 2
SHEET 4 OF 5
LAYOUT OF BRIDGE
OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: CTK DATE: 12/19/22
CHECKED BY: QL DATE: 11/27/23
DESIGNED BY: BTJ DATE: 12/2/22
FILENAME: b040901216_l4.dgn
SCALE: 1" = 30'-0"
BRIDGE NO. 07685 DRAWING NO. 67602

PRINT DATE: 4/11/2024

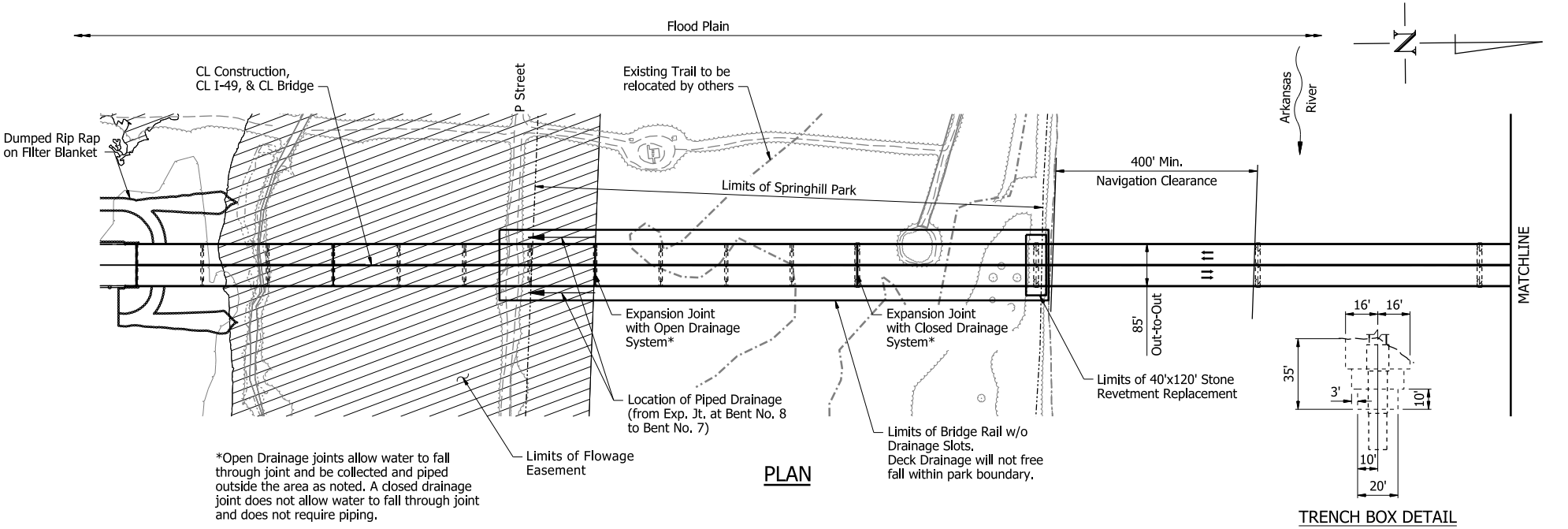
Section 408 Summary Report

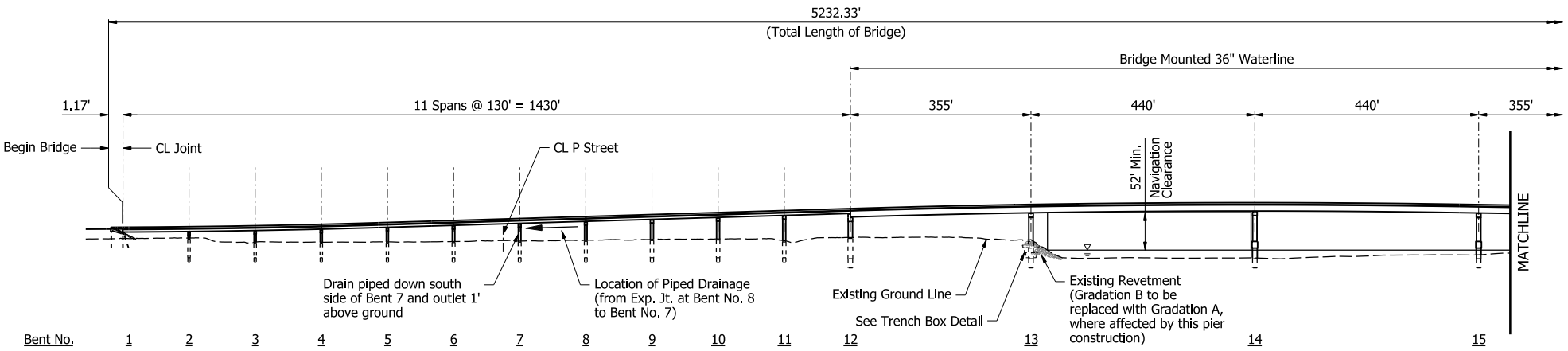
Appendix B3

Permanent Bridge Impacts

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB





300 200 100 0 300

SCALE IN FEET

Note:
See Bridge Layouts for additional information.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

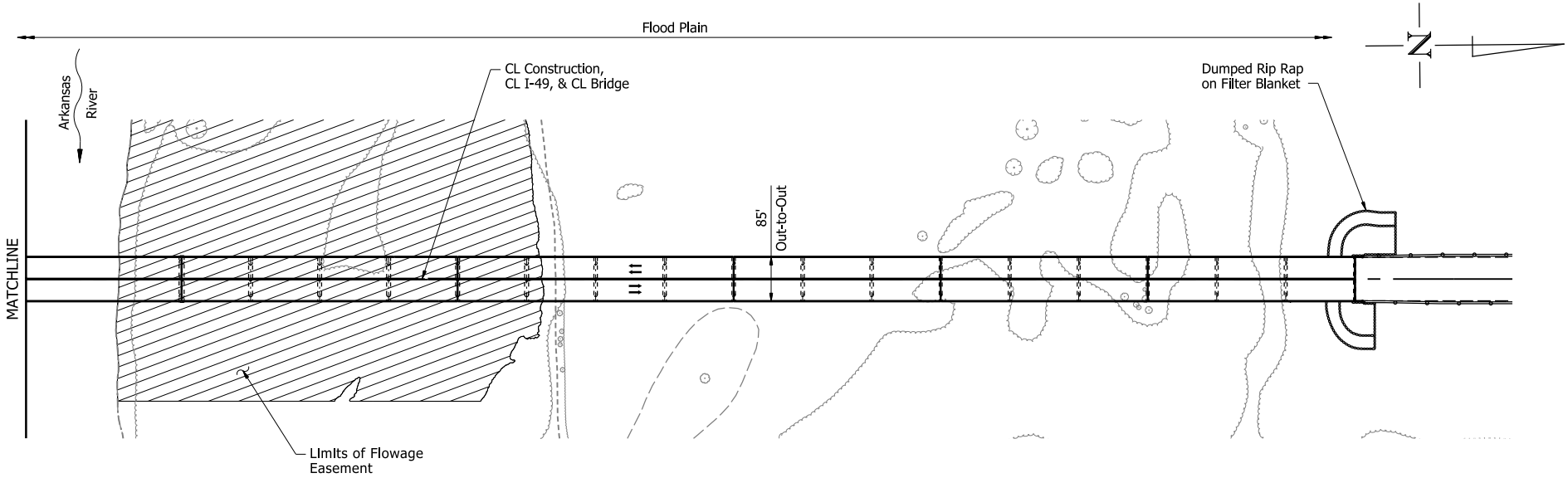
HNTB

PRINT DATE: 7/11/2023

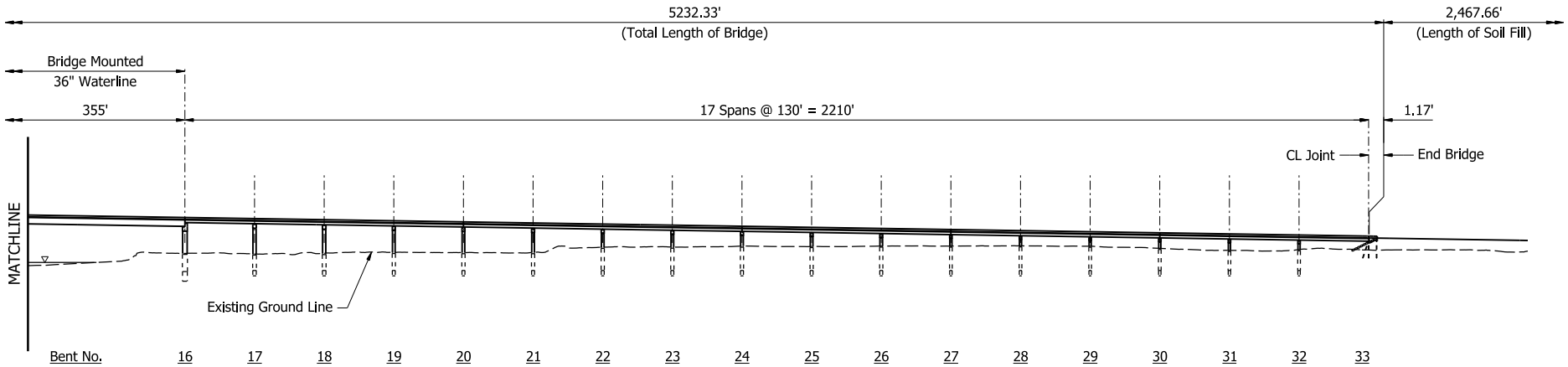
PERMANENT IMPACTS PROPOSED BRIDGE 1
INTERSTATE 49 OVER ARKANSAS RIVER,
NEAR BARLING, ARKANSAS (CRAWFORD &
SEBASTIAN COUNTIES)
ARKANSAS DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 2

JUNE 2023



PLAN



ELEVATION

300 200 100 0 300
SCALE IN FEET

Note:
See Bridge Layouts for additional information.

PRELIMINARY
NOT FOR CONSTRUCTION

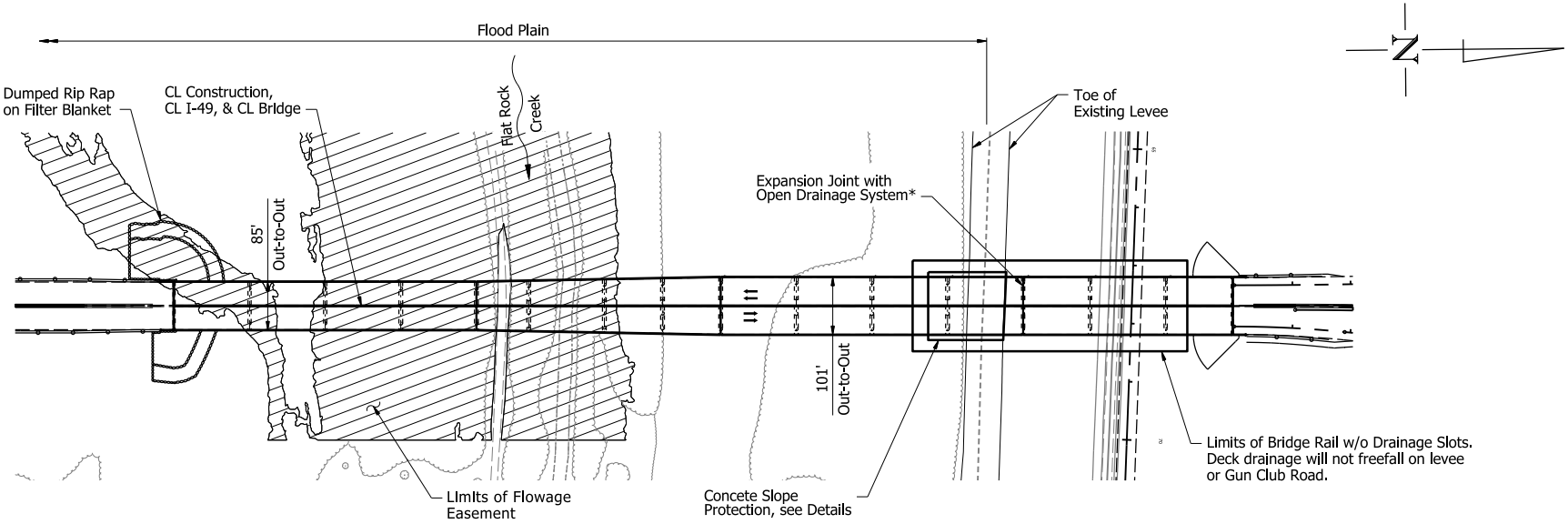
BRIDGE ENGINEER

HNTB

PRINT DATE: 7/11/2023

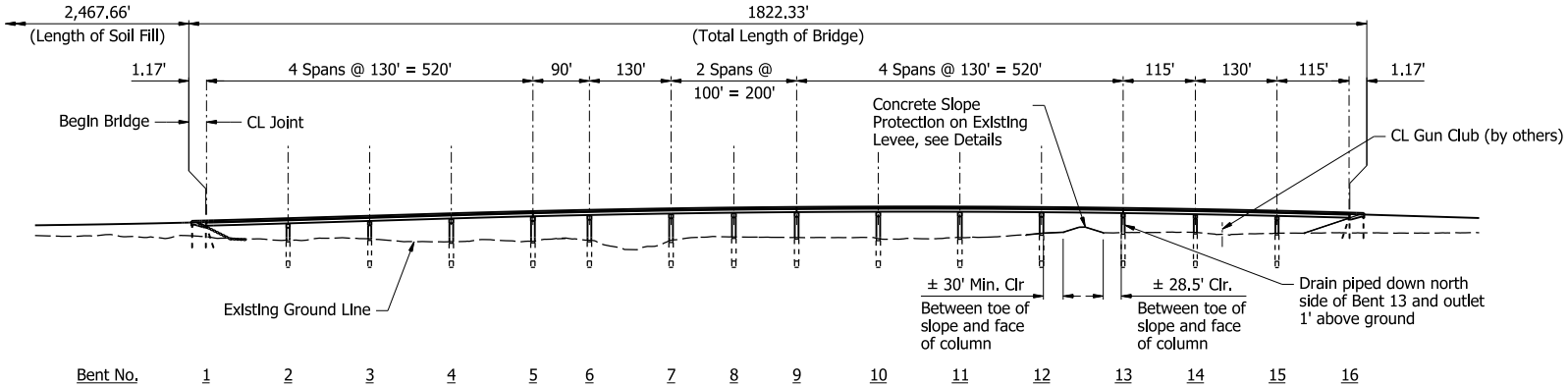
PERMANENT IMPACTS PROPOSED BRIDGE 1
INTERSTATE 49 OVER ARKANSAS RIVER,
NEAR BARLING, ARKANSAS (CRAWFORD & SEBASTIAN COUNTIES)
ARKANSAS DEPARTMENT OF TRANSPORTATION

SHEET 2 OF 2 JUNE 2023



PLAN

*Open Drainage joints allow water to fall through joint and be collected and piped outside the area as noted. A closed drainage joint does not allow water to fall through joint and does not require piping.



ELEVATION

300 200 100 0 300
SCALE IN FEET

Note:
See Bridge Layouts for additional information.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

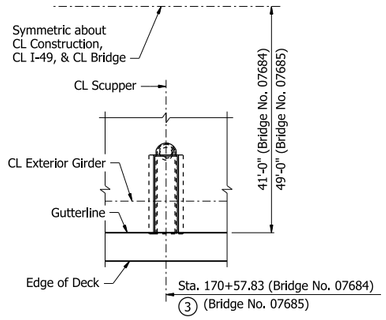
HNTB

PRINT DATE: 7/11/2023

PERMANENT IMPACTS
PROPOSED BRIDGE 16
INTERSTATE 49 OVER ARKANSAS RIVER,
NEAR BARLING, ARKANSAS (CRAWFORD COUNTY)
ARKANSAS DEPARTMENT OF TRANSPORTATION

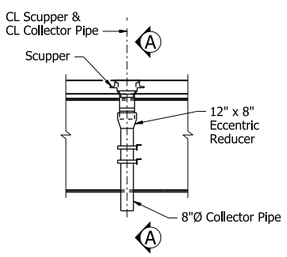
SHEET 1 OF 1 JUNE 2023

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	647	809
		07684 & 07685 - DECK DRAINAGE - 67707				

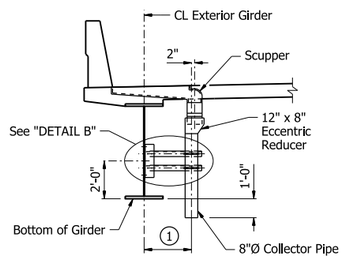


PLAN
¼" = 1'-0"

3 Sta. 252+38.67 for Alternate No. 1 (Prestressed Concrete Girder Spans)
Sta. 252+47.17 for Alternate No. 2 (Steel Plate Girder Plans)

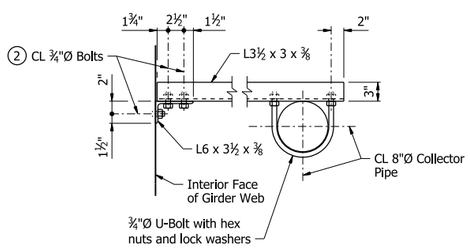


ELEVATION
(Exterior Girder not shown for clarity)
¼" = 1'-0"

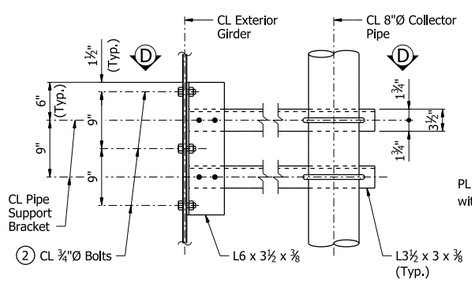


SECTION A-A
¼" = 1'-0"

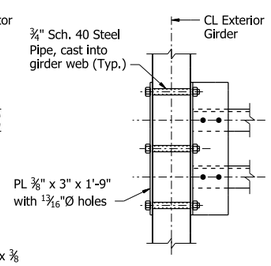
DETAILS OF SCUPPERS WITHOUT PIPE RUNS
AT BRIDGE NOS. 07684 & 07685



SECTION D-D
1" = 1'-0"

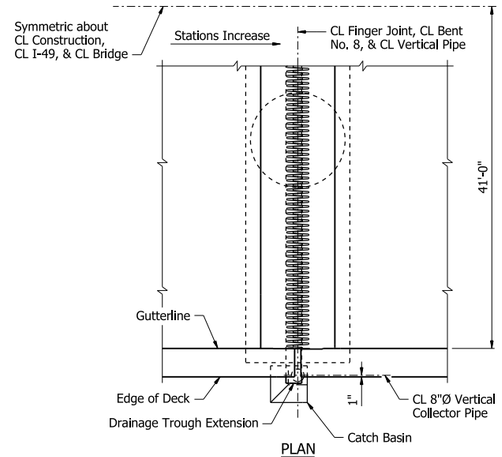


STEEL PLATE GIRDER
CONNECTION DETAIL
1" = 1'-0"

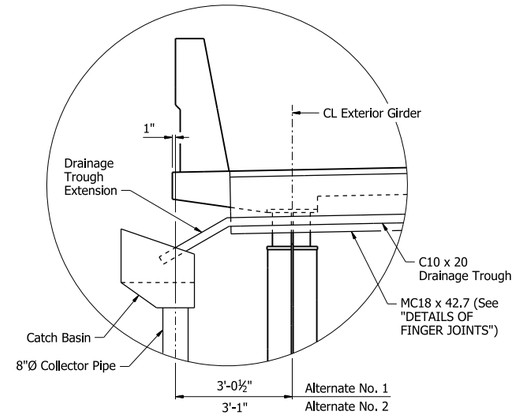


CONCRETE GIRDER
CONNECTION DETAIL
(Same as Steel Plate Girder Connection, UNO)
1" = 1'-0"

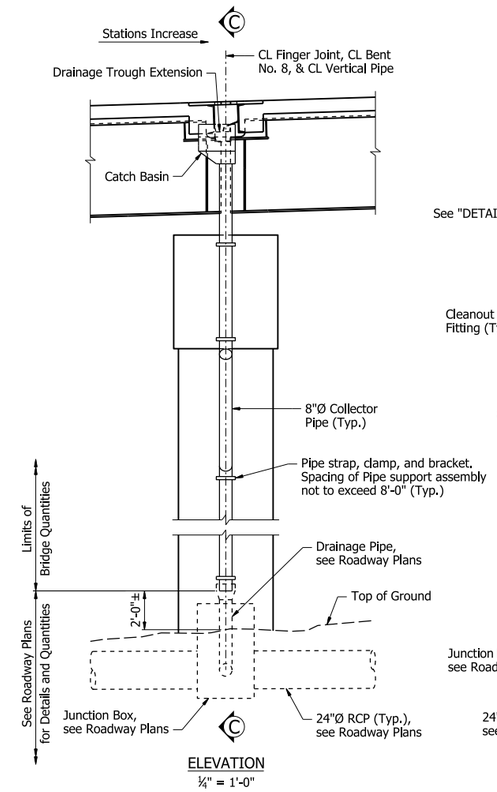
DETAIL B



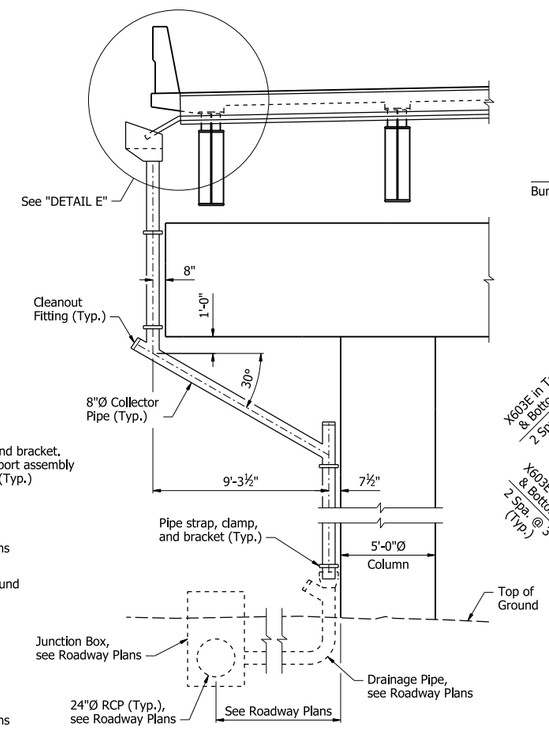
PLAN
¼" = 1'-0"



DETAIL E
½" = 1'-0"



ELEVATION
¼" = 1'-0"



SECTION C-C
¼" = 1'-0"

DETAILS AT BRIDGE NO. 07684 (BENT NO. 8)

Notes:
All Deck Drainage details are shown for Alternate No. 2. Alternate No. 1 is similar.

Material for catch basin, clevis hanger, 3" square PL washers, lateral support assemblies, & pipe support assemblies on substructure shall be ASTM A709, Grade 50 Steel. Standard Weight Pipe and fittings shall be in conformance with ASTM A53 or ASTM A501 Grade A. Pipe and fittings conforming to ASTM A500 Grade B and galvanized in accordance with ASTM A123 may also be provided. Threaded rod shall be ASTM A307, Grade A with complimentary nuts and washers. All drainage components shall be paid for as "Structural Steel in Plate Girder Spans (M270-Gr50W)".

Steel used for catch basin shall be ¼" thick.

All drainage components shall be hot-dip galvanized in accordance with Subsection 807.19. Any galvanized coating that is damaged during transportation or construction, including field drilling, shall be repaired according to Subsection 807.88.

All bolts connecting galvanized steel components shall be Type 1, hot-dip glavanized bolts with complimentary washers and heavy hex nut, UNO in accordance with Subsection 807.06.

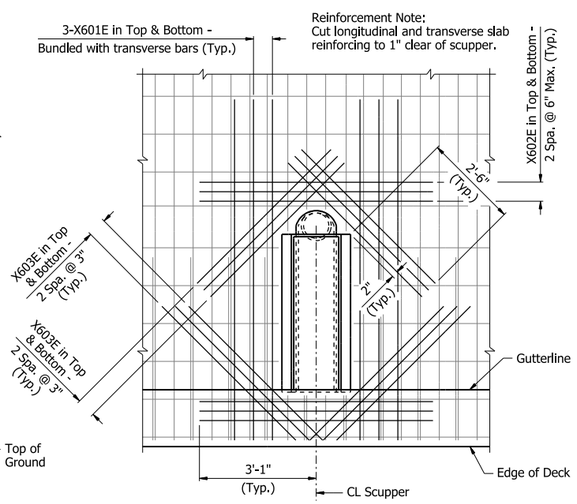
For pipe hanger, pipe clamp, pipe bracket, and pipe strap details, see Dwg. No. 67711.

For details of finger joint and drainage trough of Alternate No. 1, see Dwg. Nos. 67694 and 67695. For details of finger joint and drainage trough of Alternate No. 2, see Dwg. Nos. 67696 and 67697.

For "CATCH BASIN DETAILS", see Dwg. No. 67710.

1 2'-6½" for Alternate No. 1 (Prestressed Concrete Girder Spans)
2'-6" for Alternate No. 2 (Steel Plate Girder Spans)

2 All holes for lateral supports shall be preformed during fabrication for prestressed concrete beam spans and predrilled during fabrication of steel plate girder spans.



PLAN OF REINFORCING AT DECK DRAINS
½" = 1'-0"

ALTERNATE NO. 1 & ALTERNATE NO. 2
SHEET 1 OF 5
DETAILS OF DECK DRAINAGE
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

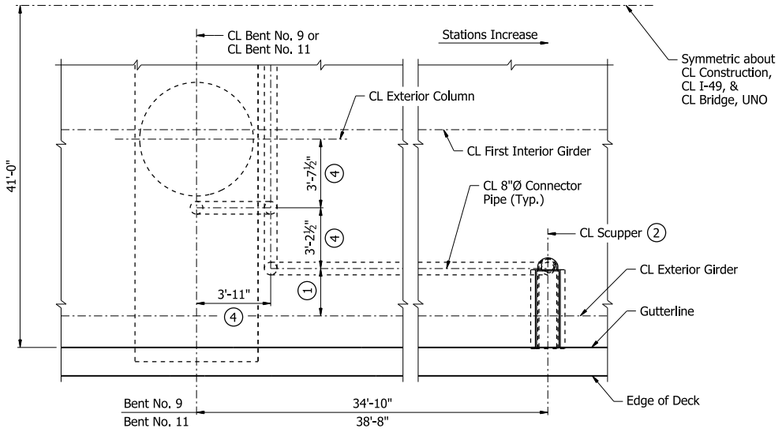
BRIDGE ENGINEER

DRAWN BY: AMW DATE: 11/14/23
CHECKED BY: BTJ DATE: 11/28/23
DESIGNED BY: AMW DATE: 11/14/23
FILENAME: b040901_dd1.dgn
SCALE: AS NOTED

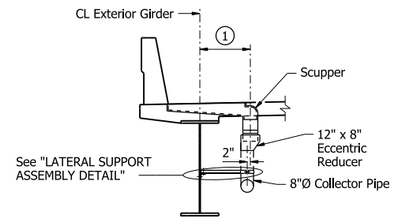
BRIDGE NO. 07684 & 07685 DRAWING NO. 67707

PRINT DATE: 4/9/2024

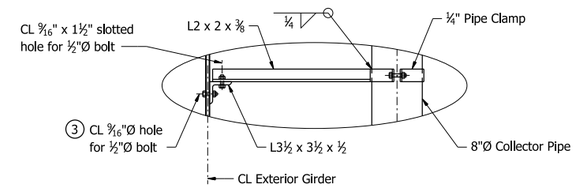
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	648	809
		07684 & 07685 - DECK DRAINAGE - 67708				



PLAN
¼" = 1'-0"



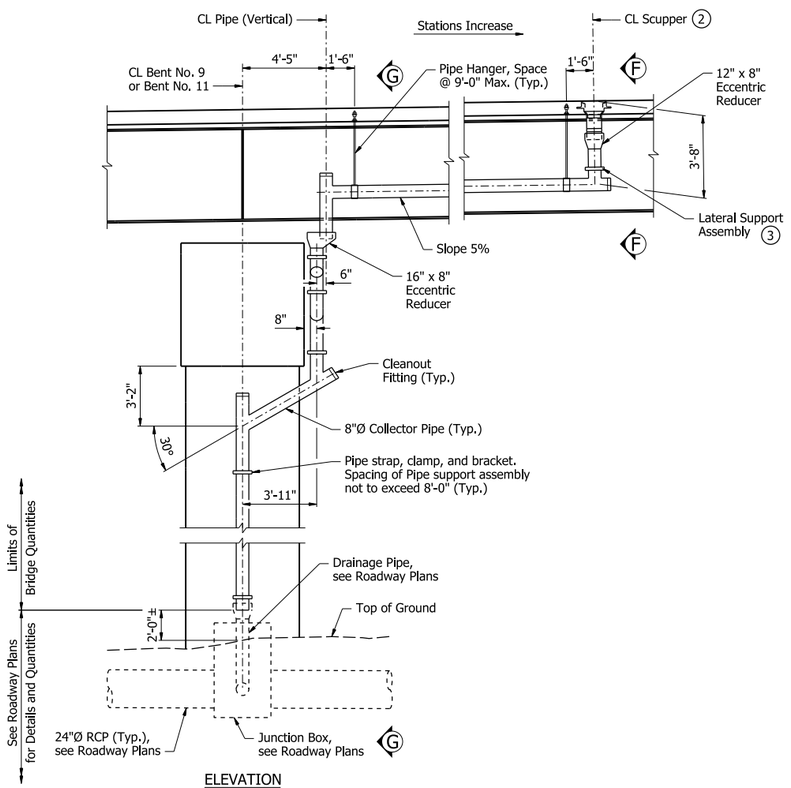
SECTION F-F
¼" = 1'-0"



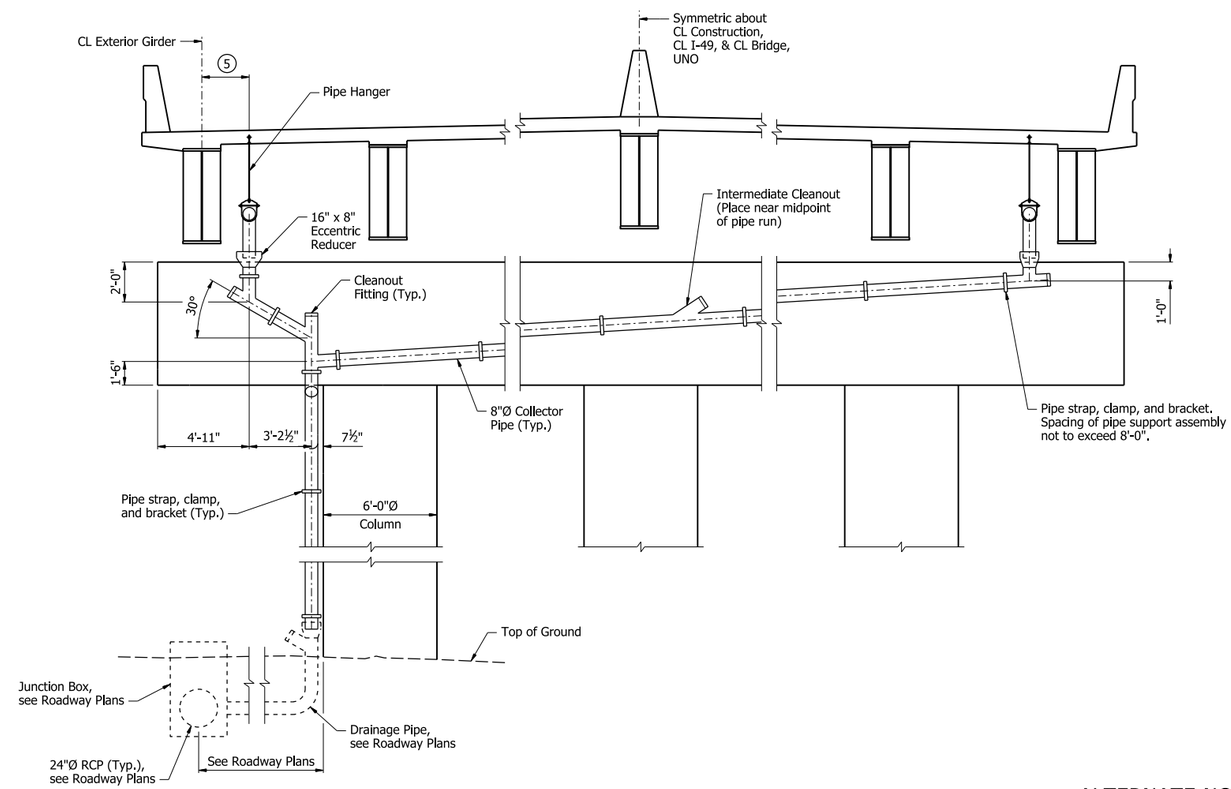
LATERAL SUPPORT ASSEMBLY DETAIL
2" = 1'-0"

Notes:
For additional notes, see Dwg. No. 67707.

1. 2'-8½" for Alternate No. 1 (Prestressed Concrete Girder Spans)
   2'-8" for Alternate No. 2 (Steel Plate Girder Spans)
2. Sta. 174+47.83 adjacent to Bent No. 9
   Sta. 177+11.67 adjacent to Bent No. 11
3. All holes for lateral supports shall be preformed during fabrication for prestressed concrete beam spans or predrilled during fabrication of steel plate girder spans.
4. East side only.
5. 2'-6½" for Alternate No. 1 (Prestressed Concrete Girder Spans)
   2'-6" for Alternate No. 2 (Steel Plate Girder Spans)



ELEVATION
(Exterior Girder not shown for clarity)
¼" = 1'-0"



SECTION G-G
¼" = 1'-0"

DETAILS AT BRIDGE NO. 07684 (BENT NOS. 9 & 11)

ALTERNATE NO. 1 & ALTERNATE NO. 2
SHEET 2 OF 5
DETAILS OF DECK DRAINAGE
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

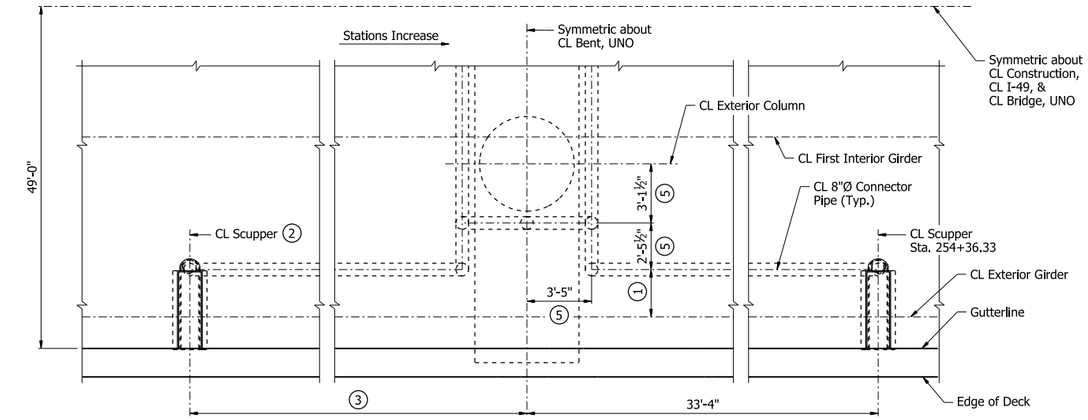
PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

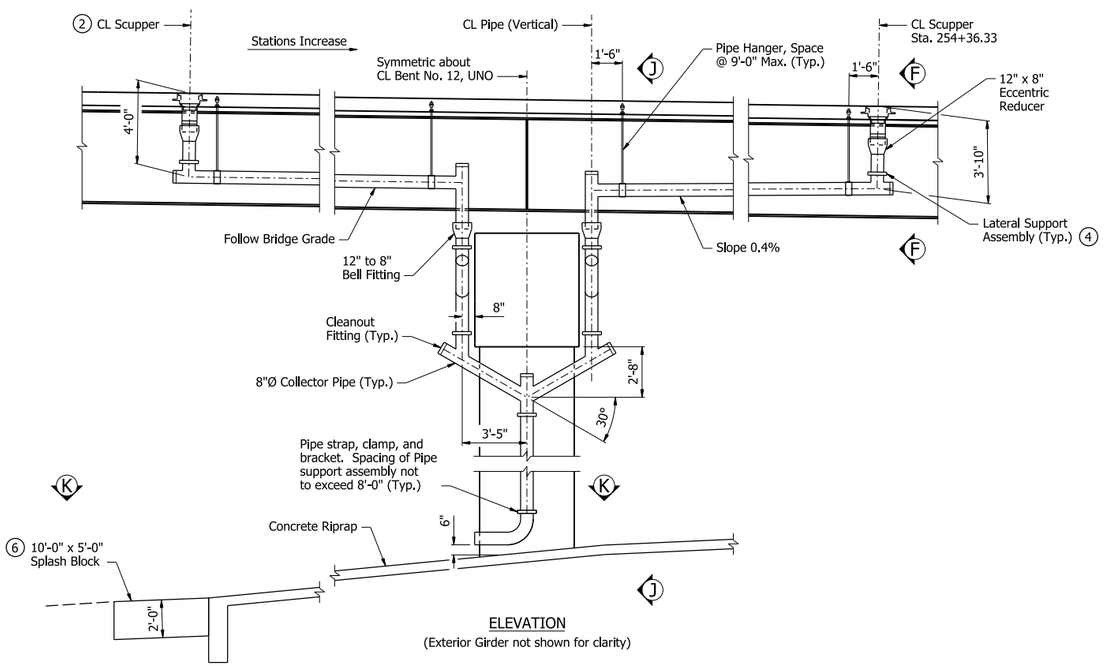
DRAWN BY: AMW DATE: 11/14/23
CHECKED BY: BTJ DATE: 11/28/23
DESIGNED BY: AMW DATE: 11/14/23
FILENAME: b040901_dd2.dgn
SCALE: AS NOTED
BRIDGE NO. 07684 & 07685 DRAWING NO. 67708

PRINT DATE: 4/9/2024

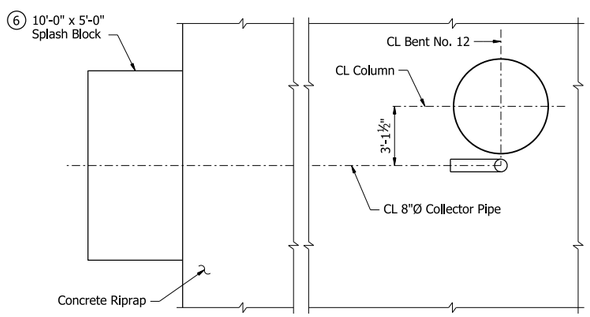
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	649	809
		07684 & 07685 - DECK DRAINAGE - 67709				



PLAN



ELEVATION
(Exterior Girder not shown for clarity)



SECTION K-K

Notes:
For "SECTION F-F", see Dwg. No. 67708.

For additional notes, see Dwg. No. 67707.

(1) 2'-6½" for Alternate No. 1 (Prestressed Concrete Girder Spans)
2'-6" for Alternate No. 2 (Steel Plate Girder Spans)

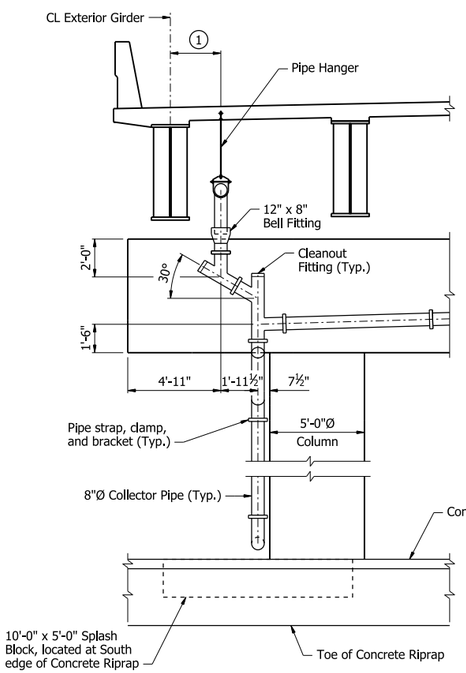
(2) Sta. 253+79.00 Alternate No. 1
Sta. 253+77.17 Alternate No. 2

(3) 24'-0" for Alternate No. 1
25'-10" for Alternate No. 2

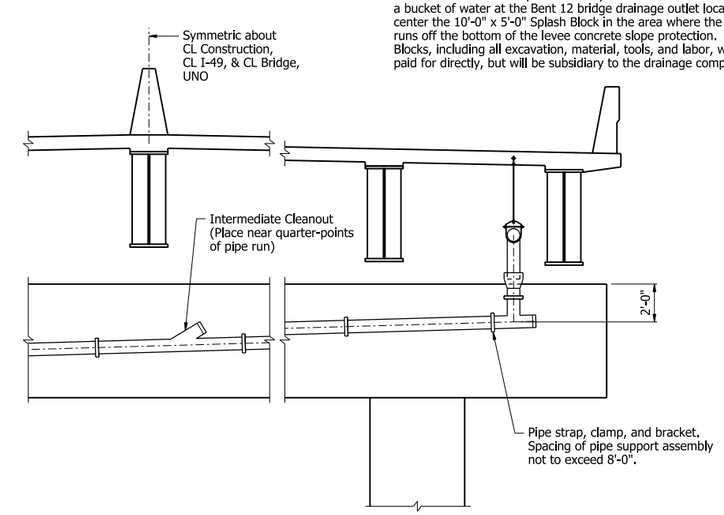
(4) All holes for lateral supports shall be preformed during fabrication for the prestressed concrete beam spans or predrilled during fabrication of the steel plate girder spans.

(5) East side only.

(6) 10'-0" x 5'-0" Splash Blocks shall be 2'-0" thick and material shall be in accordance with Special Provision "ABUTMENT STONE". The Contractor shall locate splash block by test. The test will be to dump a bucket of water at the Bent 12 bridge drainage outlet location and center the 10'-0" x 5'-0" Splash Block in the area where the water runs off the bottom of the levee concrete slope protection. Splash Blocks, including all excavation, material, tools, and labor, will not be paid for directly, but will be subsidiary to the drainage components.



SECTION J-J



ALTERNATE NO. 1 & ALTERNATE NO. 2
SHEET 3 OF 5
DETAILS OF DECK DRAINAGE
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

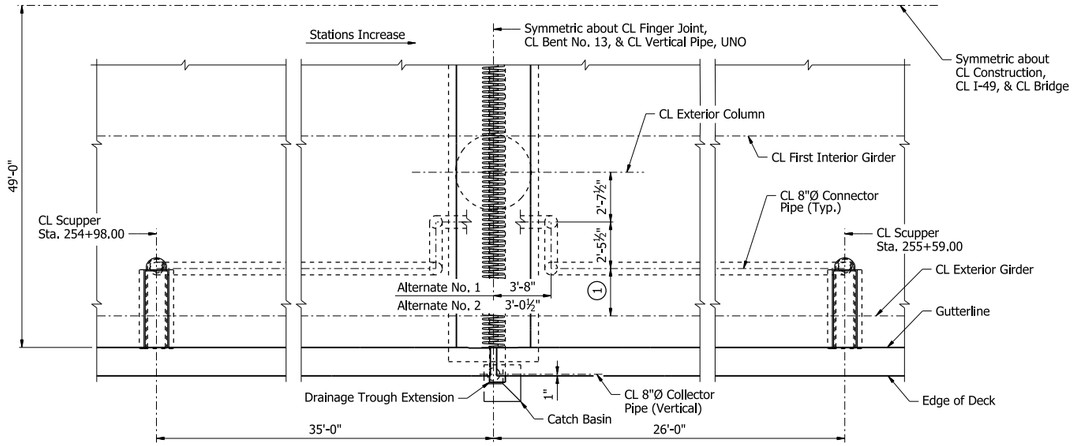
BRIDGE ENGINEER

DETAILS AT BRIDGE NO. 07685 (BENT NO. 12)

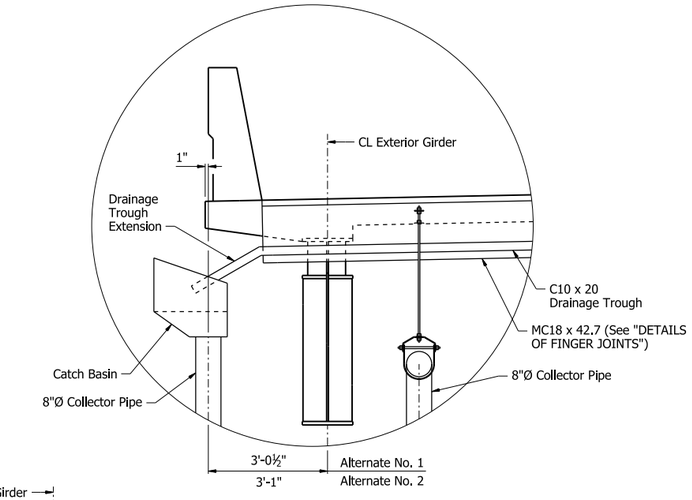
DRAWN BY: AMW DATE: 11/14/23
CHECKED BY: BTJ DATE: 11/28/23
DESIGNED BY: AMW DATE: 11/14/23
FILENAME: b040901_dd3.dgn
SCALE: ¼" = 1'-0"
BRIDGE NO. 07684 & 07685 DRAWING NO. 67709

PRINT DATE: 4/9/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	650	809
		07684 & 07685 - DECK DRAINAGE - 67710				



PLAN
¼" = 1'-0"



DETAIL N
½" = 1'-0"

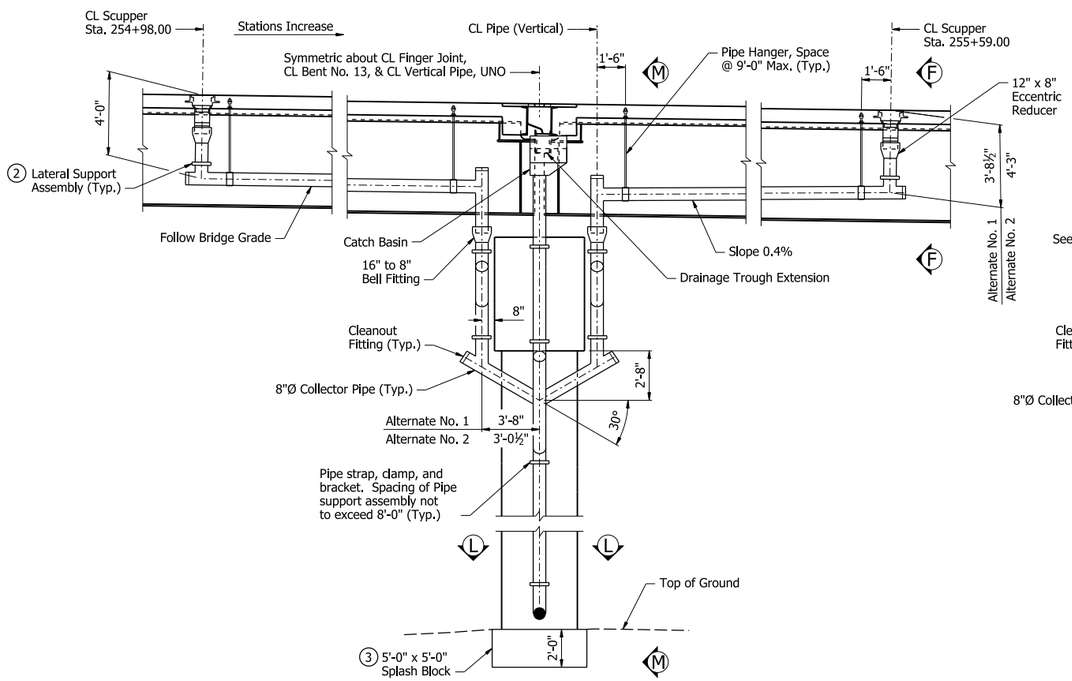
Notes:
For "SECTION F-F", see Dwg. No. 67708.

For additional notes, see Dwg. No. 67707.

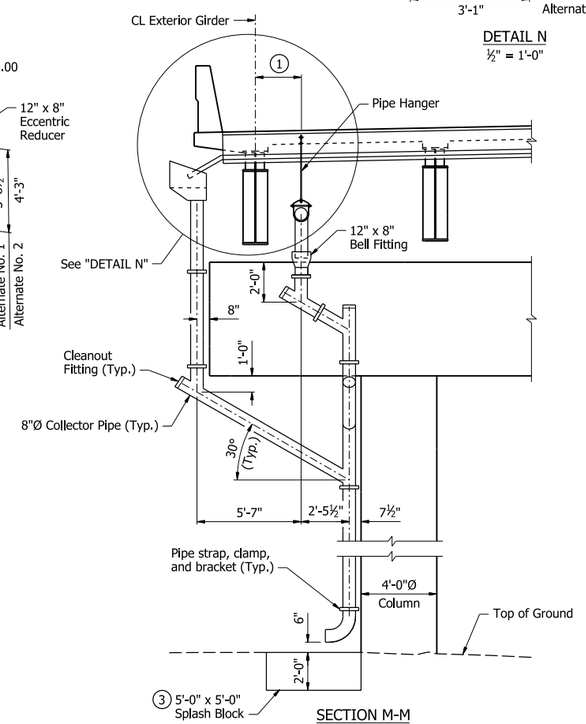
(1) 2'-6½" for Alternate No. 1 (Prestressed Concrete Girder Spans)
2'-6" for Alternate No. 2 (Steel Plate Girder Spans)

(2) All holes for lateral supports shall be preformed during fabrication for prestressed concrete beam spans or predrilled during fabrication of steel plate girder spans.

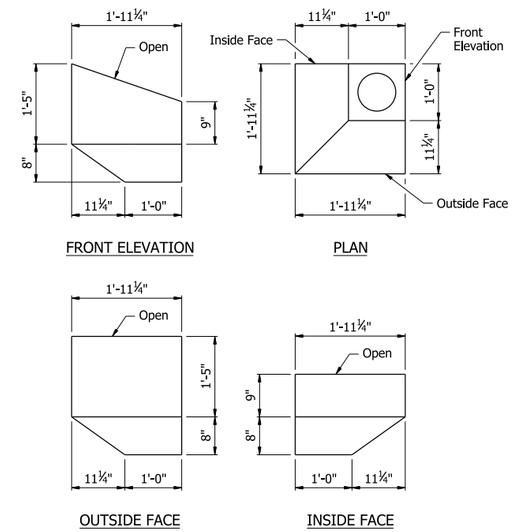
(3) 5'-0" x 5'-0" Splash Blocks shall be 2'-0" thick and material shall be in accordance with Special Provision "ABUTMENT STONE". Splash Blocks, including all excavation, material, tools, and labor, will not be paid for directly, but will be subsidiary to the drainage components.



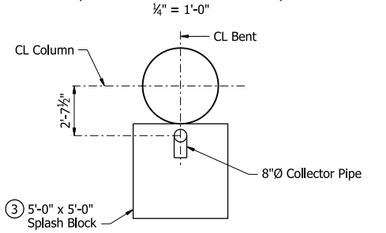
ELEVATION
(Exterior Girder not shown for clarity)
(East side shown. West side similar.)
¼" = 1'-0"



SECTION M-M
¼" = 1'-0"



CATCH BASIN DETAILS
¾" = 1'-0"
(Details shown for Bridge No. 07684, Bent No. 8;
Details for Bridge No. 07685, Bent No. 13 similar)



SECTION L-L
¼" = 1'-0"

DETAILS AT BRIDGE NO. 07685 (BENT NO. 13)

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

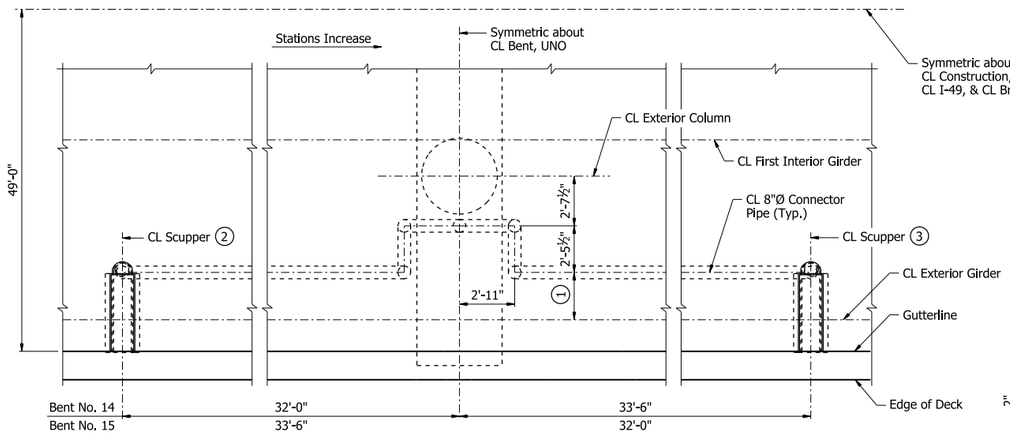
ALTERNATE NO. 1 & ALTERNATE NO. 2
SHEET 4 OF 5
DETAILS OF DECK DRAINAGE
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

DRAWN BY: AMW DATE: 11/14/23
CHECKED BY: BTJ DATE: 11/28/23
DESIGNED BY: AMW DATE: 11/14/23
FILENAME: b040901_dd4.dgn
SCALE: AS NOTED
BRIDGE NO. 07684 & 07685 DRAWING NO. 67710

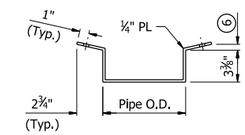
PRINT DATE: 4/5/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	651	809
		07684 & 07685 - DECK DRAINAGE - 67711				

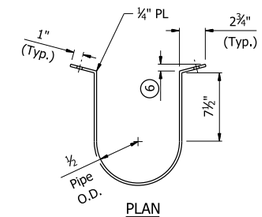


PLAN
¼" = 1'-0"

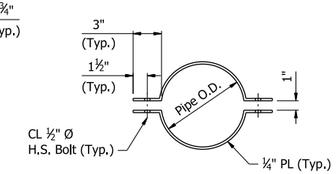
(6) ¾" at 4'-0"Ø Column
½" at 5'-0"Ø & 6'-0"Ø Columns
0" at Cap



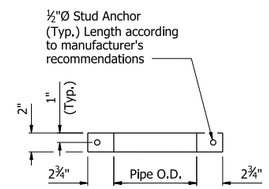
PLAN



PLAN

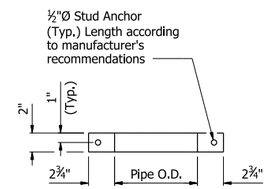


PLAN



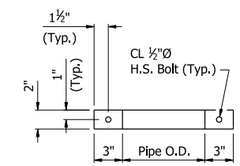
ELEVATION

PIPE BRACKET DETAIL
1½" = 1'-0"



ELEVATION

PIPE STRAP DETAIL
1½" = 1'-0"



ELEVATION

PIPE CLAMP DETAIL
1½" = 1'-0"

Notes:
For "SECTION F-F", see Dwg. No. 67708.

For "SECTION L-L", see Dwg. No. 67710.

For additional notes, see Dwg. No. 67707.

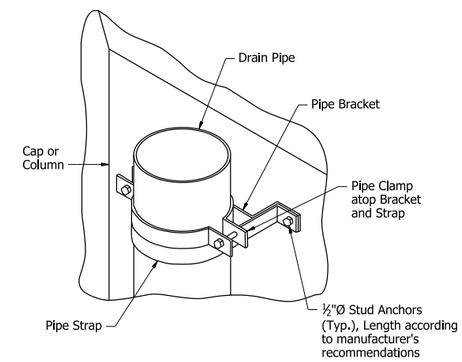
(1) 2'-6½" for Alternate No. 1 (Prestressed Concrete Girder Spans)
2'-6" for Alternate No. 2 (Steel Plate Girder Spans)

(2) Sta. 256+16.00 adjacent to Bent No. 14
Sta. 257+44.50 adjacent to Bent No. 15

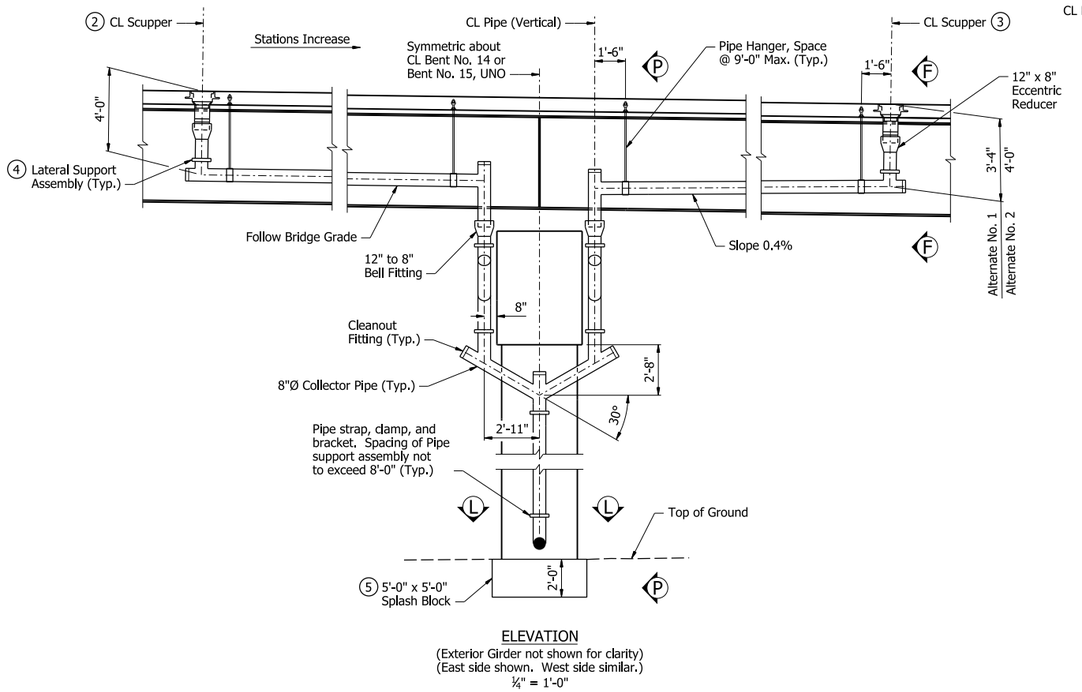
(3) Sta. 256+81.50 adjacent to Bent No. 14
Sta. 258+10.00 adjacent to Bent No. 15

(4) All holes for lateral supports shall be preformed during fabrication for the prestressed concrete beam spans or predrilled during fabrication of the steel plate girder spans.

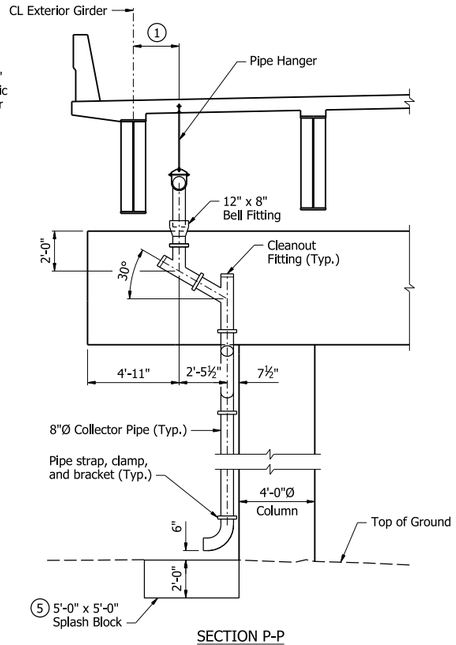
(5) 5'-0" x 5'-0" Splash Blocks shall be 2'-0" thick and material shall be in accordance with Special Provision "ABUTMENT STONE". Splash Blocks, including all excavation, material, tools, and labor, will not be paid for directly, but will be subsidiary to the drainage components.



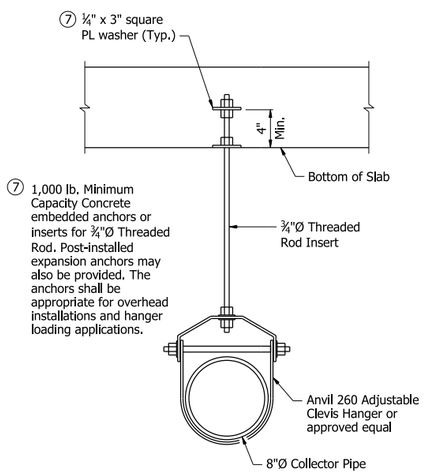
PIPE SUPPORT ASSEMBLY
NO SCALE



ELEVATION
(Exterior Girder not shown for clarity)
(East side shown. West side similar.)
¼" = 1'-0"



SECTION P-P
¼" = 1'-0"



PIPE HANGER DETAILS
1½" = 1'-0"

DETAILS AT BRIDGE NO. 07685 (BENT NOS. 14 & 15)

ALTERNATE NO. 1 & ALTERNATE NO. 2
SHEET 5 OF 5
DETAILS OF DECK DRAINAGE
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

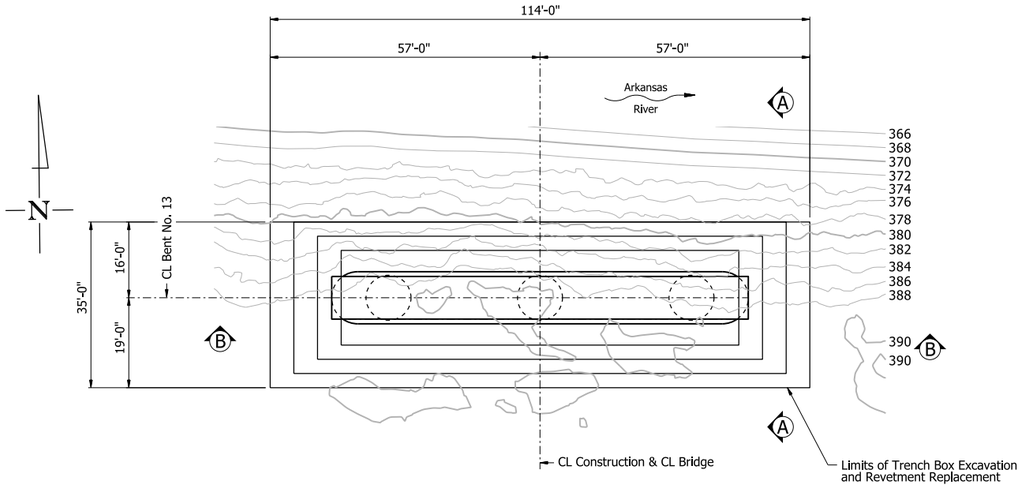
BRIDGE ENGINEER

DRAWN BY: AMW DATE: 11/14/23
CHECKED BY: BTJ DATE: 11/28/23
DESIGNED BY: AMW DATE: 11/14/23
FILENAME: b040901_dd5.dgn
SCALE: AS NOTED

BRIDGE NO. 07684 & 07685 DRAWING NO. 67711

PRINT DATE: 4/5/2024

DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	656	809
		07684 - REVETMENT - 67716				



REVETMENT PLAN

(1/32" = 1'-0")

SUGGESTED SEQUENCE OF CONSTRUCTION:

Remove Existing Revetment within trench box limits in steps as shown to the top of existing rock. Install casing, drilled shafts and waterline strut as defined below.

1) Set first trench box section on the ground. Excavate inside the trench box in stages while working the trench box down controlling sloughing and overexcavation beyond the trench box sides as much as practical.
2) Set next trench box down inside. Excavate and work the trench box down as excavation continues. Repeat as necessary to top of rock.
3) Seat permanent casing into rock as shown in Plans. Provide temporary support as needed.
4) Install drilled shaft per Special Provision "DRILLED SHAFT FOUNDATIONS".
5) Backfill excavation with stone per Special Provision "REVETMENT STONE (GRADATION A) - ARKANSAS RIVER".
6) Stone shall be placed with a maximum free fall height of 12'-0", to prevent stone-size segregation, and comply with the "EXTENTS OF PLACEMENT" section of the Special Provision.
7) Withdraw lower trench box sections as stone is placed up to the bottom of strut.
8) Construct waterline strut and backfill excavation with stone to grade as upper trench box section is removed.

Notes:
Excavation of the existing revetment shall be paid for at the contract unit price for "UNCLASSIFIED EXCAVATION FOR STRUCTURES-BRIDGE".

Shoring for the excavation shall be in accordance with the Special Provision "SHORING" and shall be paid for at the contract lump sum price bid for "Shoring (Site No. 1)".

Revetment shall be in accordance with Special Provision "REVETMENT STONE (GRADATION A) - ARKANSAS RIVER" and shall be paid for at the contract unit price for "REVETMENT STONE (GRADATION A) - ARKANSAS RIVER".

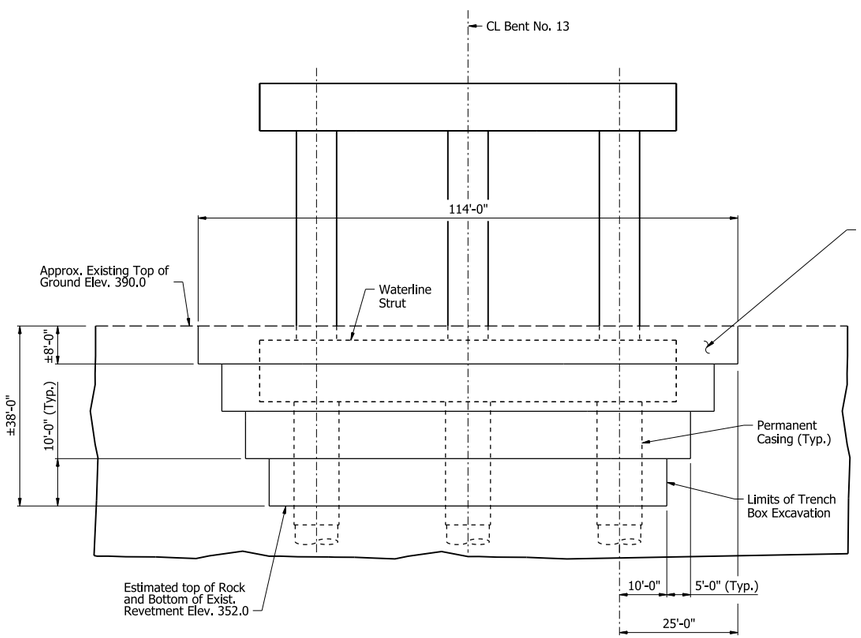
For General Notes, see Dwg. Nos. 67372 & 67373.

Limits of trench box excavation and revetment replacement shall not exceed the limits shown in the plans without written appproval from the Engineer.

Trench box or other temporary shoring method approved by the Engineer shall be used to support the excavation for construction of Bent 13 below grade. An open cut or unbraced excavation will not be permitted.

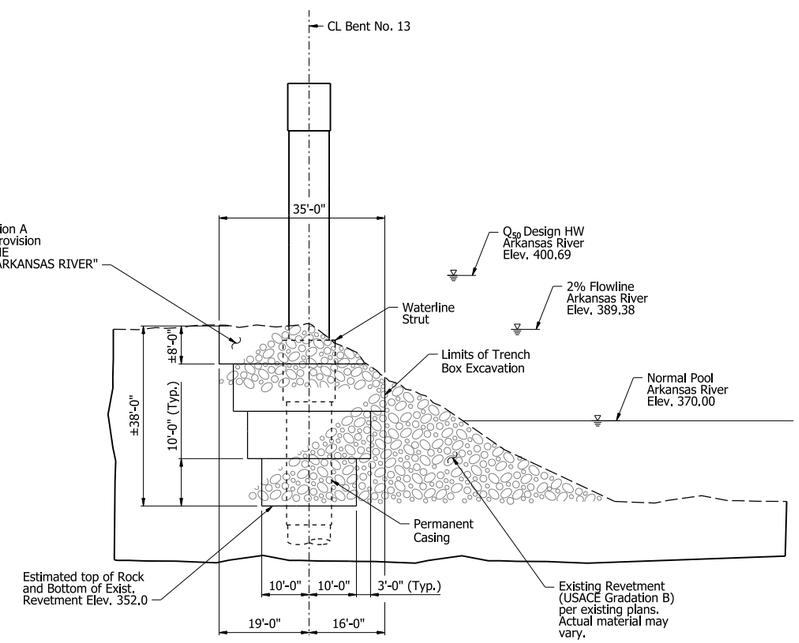
The Contractor shall not drive, load or store equipment on the existing revetment outside the area shown on this sheet. In the event this is violated, the Contractor shall replace the top 5 feet of existing riprap with the "REVETMENT STONE (GRADATION A) - ARKANSAS RIVER" (see Special Provision).

For additional information on the Emergency Action Plan and other requirements, see "ARMY CORPS RESTRAINING CONDITIONS" and "ARMY CORPS - ARKANSAS RIVER, FLOODWAY AND LEVEE REQUIREMENTS" Special Provisions.



SECTION B-B

(1/32" = 1'-0")



SECTION A-A

(1/32" = 1'-0")

ALTERNATE NO. 1 & ALTERNATE NO. 2
SHEET 1 OF 1
REVETMENT AT BENT NO. 13
I-49 OVER ARKANSAS RIVER
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD & SEBASTIAN COUNTIES

ROUTE 549 SEC. 6

ARKANSAS STATE HIGHWAY COMMISSION

LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

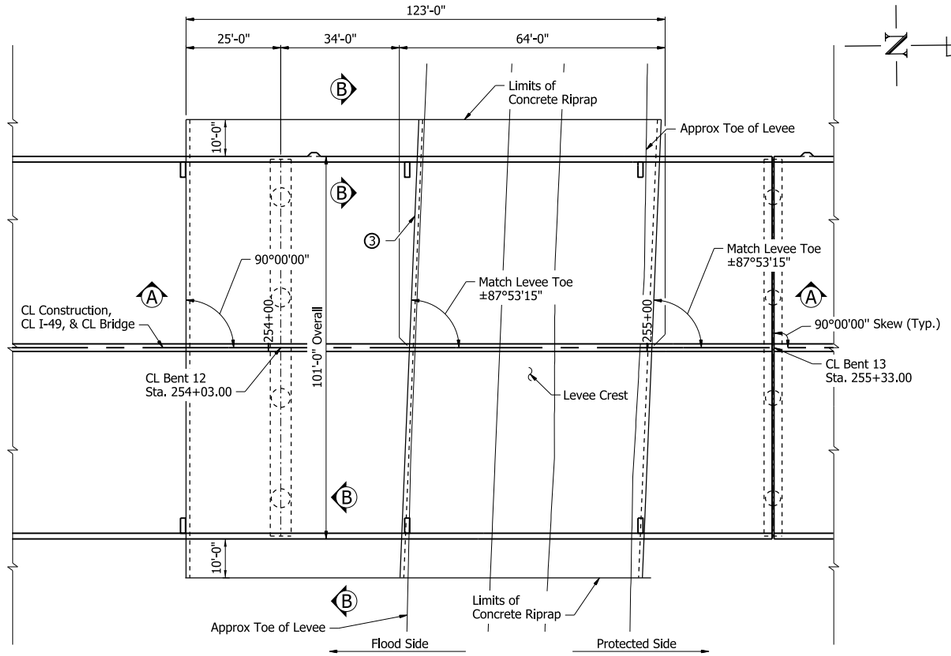
BRIDGE ENGINEER

DRAWN BY: CTK DATE: 10/20/23
CHECKED BY: CPS DATE: 11/22/23
DESIGNED BY: NAM DATE: 11/27/23
FILENAME: b040901_rv1.dgn
SCALE: AS NOTED

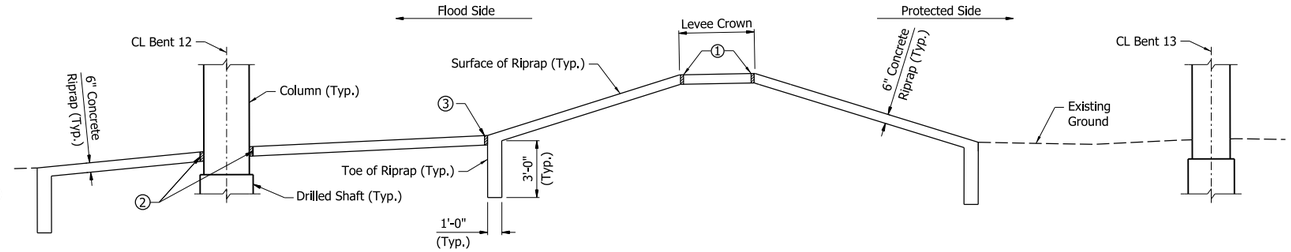
BRIDGE NO. 07684 DRAWING NO. 67716

PRINT DATE: 4/15/2024

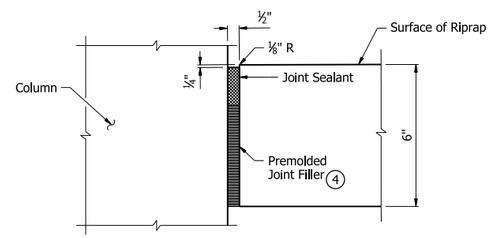
DATE REVISED	DATE REVISED	FED. RD. DIST. NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	654	809
		07685 - CONCRETE RIPRAP- 67714				



PLAN (CRAWFORD COUNTY FEDERAL LEVEE)
1" = 20'-0"



SECTION A-A (CRAWFORD COUNTY FEDERAL LEVEE)
(NTS)



COLUMN EXPANSION JOINT
(NTS)

Notes:
For General Notes, see Dwg. No. 67372.

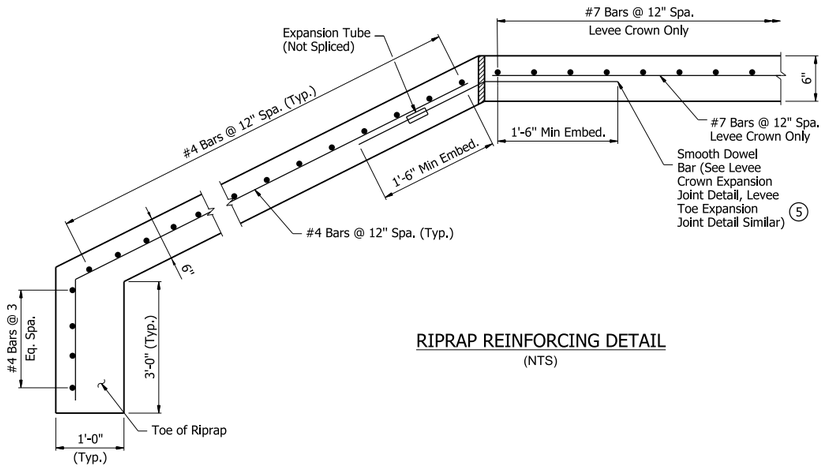
All concrete shall be Class A with a minimum compressive strength, f'c = 2,100 psi.

Keyed construction joints required at all construction joints.

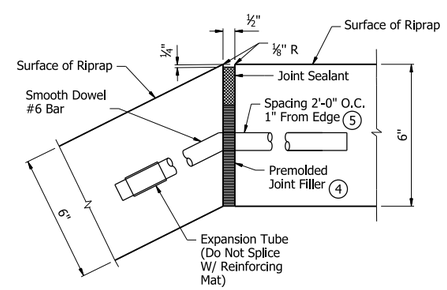
Contractor shall install construction joints in an approximate 10 ft by 10 ft square pattern, or as approved by the engineer.

Hydrophilic Waterstops, Construction/Expansion Joints, Smooth Dowels, Expansion Tubes, and all Reinforcing shall not be paid for directly, but will be considered subsidiary to "Concrete Riprap".

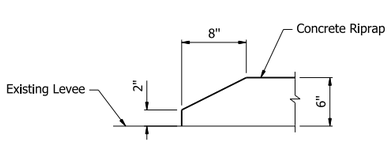
1. Levee Crown Expansion Joint shall include smooth dowel bars bent to match the transition from crown to slope. See Levee Crown Expansion Joint detail.
2. Column expansion joints shall be placed around full perimeter of columns. See column expansion joint detail.
3. Levee Toe Expansion Joint shall include smooth dowel bars bent to match the transition at Toe. See Levee Toe Expansion Joint detail.
4. Continuous Hydrophilic Waterstop (Hydrotite CJ-0725-3K or approved equal).
5. Smooth Dowel Bar may be spliced with Reinforcing Mat.



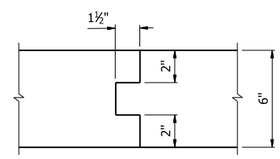
RIPRAP REINFORCING DETAIL
(NTS)



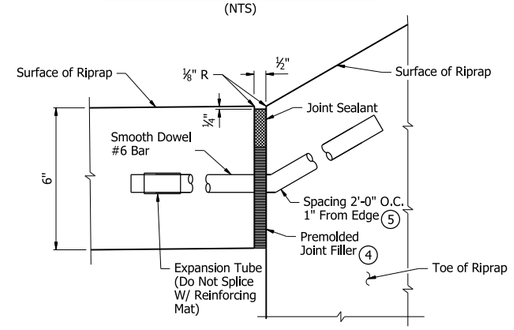
LEVEE CROWN EXPANSION JOINT
(NTS)



SECTION B-B
(NTS)



KEYED CONST JOINT DETAIL
(NTS)



LEVEE TOE EXPANSION JOINT
(NTS)

Reinforcing Quantity for Contractor's (information only)	
Levee Crown:	240 lbs/cy
Typical Riprap:	80 lbs/cy

ALTERNATE NO. 1 & ALTERNATE NO. 2
SHEET 1 OF 1
DETAILS OF LEVEE CONCRETE RIPRAP
I-49 OVER FLAT ROCK CREEK, LEVEE, & GUN CLUB RD.
HWY. 22 - GUN CLUB RD. (F)
CRAWFORD COUNTY

ROUTE 549 SEC. 6
ARKANSAS STATE HIGHWAY COMMISSION
LITTLE ROCK, ARK.

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

DRAWN BY: EMC DATE: 9/22/23
CHECKED BY: PEG DATE: 10/5/23
DESIGNED BY: BTJ DATE: 6/2/23
FILENAME: b040901_cr1.dgn
SCALE: AS NOTED

BRIDGE NO. 07685 DRAWING NO. 67714

PRINT DATE: 4/10/2024

Section 408 Summary Report

Appendix B4

Vessel Collision Report

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

I-49 Over the Arkansas River

Vessel Collision Report

ARDOT Job. No. 040748
Future I-49, Hwy 22 to Gun Club Road
Crawford and Sebastian Counties

October 28, 2022
March 6, 2024 – Rev. 1 Appendix H Added

The HNTB Companies
Infrastructure Solutions

715 Kirk Drive
Kansas City, MO 64105

Telephone (816) 472-1201
hntb.com

Rick Ellis, PE
Division Head - Bridge
Arkansas Department of Transportation (ARDOT)
10324 Interstate 30
PO Box 2261
Little Rock, AR 72203-2261
Email: charles.ellis@ardot.gov

October 28, 2022

Subject: Proposed I-49 Highway Bridge, Mile 291.6 Arkansas River 16591.1/291.6 ARR
ARDOT Job 040748 – HWY 22 to I-40 (Future I-49) – Vessel Collison Report

Dear Rick -

HNTB has completed the vessel collision report for the new I-49 Bridge crossing over the Arkansas River at MM291.6 of the MKARNS. This report presents the recommended design approach, assumptions and associated design forces that will be used in the design the new structure.

Please let me know if you would like to discuss this report at any time. I can be reached at 816-527-2173 or by email, nmccombs@hntb.com.

Best regards,

Natalie McCombs

Digitally signed by Natalie McCombs
Reason: I attest to the accuracy and integrity of this document
Date: 2022.10.27 12:02:55-05'00'

Natalie McCombs, PE, SE, ENV SP
HNTB Associate Fellow

My license renewal date is December 31, 2022. This seal is applied to pages 2-17 of the main report and Appendix G.

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2.0 Introduction 4
3.0 Data Collection 5
3.1 USACE Website 5
3.2 River Navigation Study 5
4.0 Waterway Characteristics 6
4.1 General Description 6
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1.0 Executive Summary

This document summarizes the parameters and results of the vessel collision forces that will be used to design the bridge bents for the Future I-49 Bridge over the Arkansas River at mile 291.6. The information in this document conforms to Method II of American Association of State Highway and Transportation Officials (AASHTO) *LRFD Bridge Design Specifications, 9th Edition, 2020* and *Guide Specifications and Commentary for Vessel Collision Design of Highway Bridges, Second Edition, with 2010 interims.* The bridge is classified as essential for a vessel collision event and has an acceptable annual frequency of collapse less than or equal to 0.0001.

There are two load types considered for this structure and they are vessel collision and drift barge impact. The vessel collision load is intended to mimic a collision force that results under normal waterway conditions. The drift barge impact load is applied during a flood event and is considered to be a break-away barge. The main river channel bents will be designed for the loaded vessel collision forces. Separate bent protection will not be provided. The vessel collision force and impact elevation for design using the loaded vessel shall be as stated in Table 1. The loaded vessel collision force occurs when the water elevation is contained in the main channel of the river and is at the mean high water (MHW) elevation of 375.6 feet.

TABLE 1 - LOADED VESSEL COLLISION DATA

Bent No.	P_B (kips)	Elevation (ft)
13 - 15	3100	380.0

The drift barge forces are applied to bents that could be impacted by unloaded drifting barges during the design flood (100-year flood event). Consideration of heavily treed areas, which will block any floating impact, were considered in determining the magnitude and location of the drift barge forces and are shown in Table 2.

TABLE 2 - DRIFT BARGE IMPACT DATA

	P_B (kips)	Elevation (ft)
Bents 6 - 11	300	413.0
Bents 12 - 16	1410	413.0
Bents 17 - 18	600	413.0
Bents 19 - 32	300	413.0

The design of the substructure will be in accordance with AASHTO and the recommended load combinations for the extreme event load cases. Elements above ground that can be easily inspected and repaired will be designed for the extreme event capacity such as the strut. Foundation elements under the ground will be designed for a strength limit capacity. Structural stability will be evaluated in the unlikely event one of the columns have been structurally compromised.

2.0 Introduction

The Arkansas Department of Transportation (ARDOT) has retained HNTB Corporation to design a new section of the I-49 corridor that will establish an interstate corridor between Alma and Barling, Arkansas. The bridge will carry both northbound and southbound I-49 traffic over the Arkansas River near river mile marker 291.6. This section of the river is part of the McClellan-Kerr Arkansas River Navigation System (MKARNS), and the project is located just downstream of the James W. Trimble Lock and Dam (Lock & Dam 13). This report summarizes the results of the vessel collision forces for the bridge bents within the limits of the navigable flow in accordance with Method II in the American Association of State Highway and Transportation Officials (AASHTO) *LRFD Bridge Design Specifications, 9th Edition, 2020* and *Guide Specifications and Commentary for Vessel Collision Design of Highway Bridges, Second Edition, with 2010 interims.*

The proposed bridge is a fixed bridge that will cross the river, as shown in Figure 1, and will have navigation clearance requirements defined by the United States Coast Guard (USCG). The minimum vertical clearance will be 52 feet measured from the 2% flowline. The minimum horizontal clearance will be 400 feet from the intersection of the right descending bank to the left descending channel bent face measured at the normal pool elevation of 370.00 feet.

FIGURE 1 – PROJECT LOCATION MAP

3.0 Data Collection

Data for the waterway and vessel data was collected using external sources. Those sources include the United States Army Corps of Engineers (USACE), Seamen's Church Institute Study, and Pilot Interviews.

3.1 USACE Website

Information was gathered from several places on the USACE website. The USACE Lock Performance Monitoring System was used to obtain 5 snapshots since March 2021 of the Flotilla Report, Appendix A, for Lock & Dam 13. This data was used to determine the tugboat size, tugboat name and a sampling of the number of barges per tow.

The USACE Waterborne Commerce Statistics Center was consulted regarding the number of barges that have been recorded at this location of the river. The total number of barges that traversed the river were provided as well as if they were upbound or downbound, barge dimensions and their associated loaded and unloaded draft. The data was provided from 2005-2019 and is included in Appendix B, Vessel Data.

3.2 River Navigation Study

A detailed river navigation study was performed by Seamen's Church Institute (SCI) to investigate the placement of the new bents and provide justification for the required horizontal navigational clearance. Terrain data and water parameters were obtained and a river simulation of this section of the river was developed to mimic typical navigation conditions, including river flow levels and prevailing wind conditions. River pilots navigated the river in the simulators for various flows and navigational conditions. As a result of this study, detailed information regarding vessel speeds was obtained for each of the runs and is provided in Appendix C, Vessel Speed Summary. This data was used to select the design vessel transit speed for the vessel collision force calculations.

The pilots were given questionnaires at the end of the river simulations to better understand their experience level, typical tow size, and comfort operating on the river for various flow conditions. The responses to the survey did not alter the average vessel transit data from the navigation study. The pilot questionnaires are shown in Appendix D, Pilot Questionnaires.

4.0 Waterway Characteristics

4.1 General Description

The Arkansas River channel is 1,035 feet wide at River Mile 291.6 at the normal pool elevation of 370.00. The lock is located approximately 1.0 miles upstream of the new bridge location. On the upstream end of the dam, the normal pool elevation is 391.00. With the proximity of the dam, high changes in flow and water elevation are present at the bridge location.

There are river dikes located along the left descending bank (north bank) near the dam. The navigation charts that depict the currently marked navigation channel are available in Appendix E, MM 291 Navigation Charts. The right descending bank (south bank) is lined with revetment structures maintained by the USACE and is shown in Figure 2.

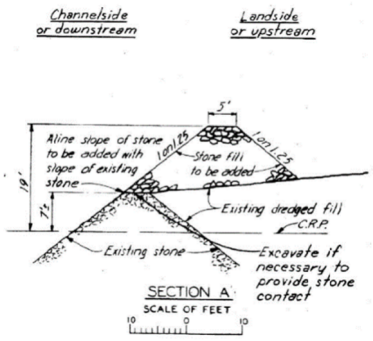

FIGURE 2 - SECTION THROUGH EXISTING RIGHT DESCENDING BANK REVETMENT

Table 3 includes the water surface elevations determined during preliminary design for the proposed bridge for various hydraulic events. The Mean High Water (MHW) elevation is the average of the hourly stream gage data the James. W. Trimble Lock and Dam (USGS 07250550) from October 1, 2007 to September 21, 2021. The 2% flow line elevation was specified in the vertical clearance requirement from the USCG for the project criteria and is included in Appendix F, 040748 USCG Clearance.

TABLE 3 - ARKANSAS RIVER HYDRAULIC DATA (MILE 291.6)

HYDRAULIC EVENT	WATER SURFACE ELEVATION
Normal Pool	370.0 ft
Mean High Water (MHW)	375.6 ft
2% Flow Line	389.3 ft
10-Year	397.1 ft
50-Year	400.7 ft
100-Year	402.6 ft

4.2 Navigational Channel

The existing channel is marked with navigational buoys with the channel located near the south side of the bank as it leaves the lock and continues to the first curve. The bridge is in the center of the river bend and the angle that channel changes is 87 degrees and is shown in Figure 3.

Vessel traffic operates year around except during flood events. The lock at this location closes when the flow is around 140,000 to 145,000 cubic feet per second (cfs) and the water system runs open flow. The River Navigation Study performed by SCI provided testing of a 3 barge wide by 5 barge long tow. The flows used in the study were low-flow of 20,000 cfs, medium-flow of 50,000 cfs and a high flow of 100,000 cfs for navigational purposes.

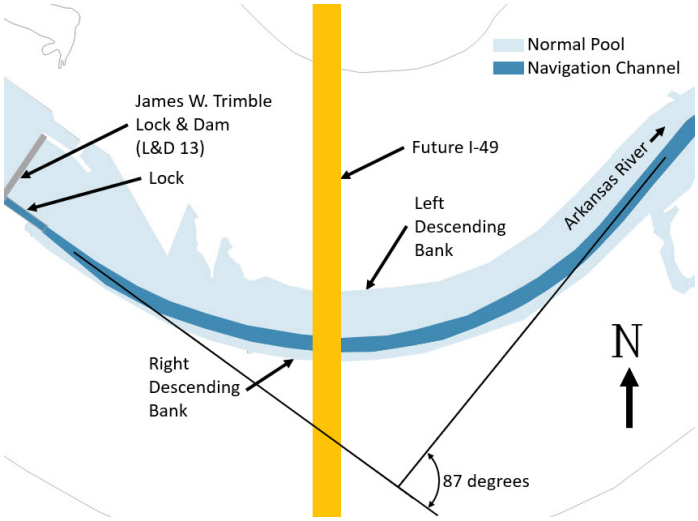

FIGURE 3 - RIVER BEND ANGLE

As specified in AASHTO, the loaded vessel collision force should be applied to the structure based on the water level at MHW Elevation. The distance from the MHW to the location of impact is included in the impact elevation calculations.

4.3 Stream Velocity and Water Depths

Velocities and transit speeds for the vessel collision event in the channel are taken from the SCI Study where the Medium Navigational Flow event is slightly higher than the MHW event. There is over one foot difference in elevation. Conservatively, the velocity at the Medium Navigational Flow event is used for the MHW event as shown by an asterisk (*) in Table 4. The maximum velocity was used for the vessel collision and applied to each of the bents.

TABLE 4 – STREAM VELOCITIES OF VESSEL COLLISION EVENTS (MHW)

HYDROLOGIC EVENT	WATER SURFACE ELEVATION	STREAM VELOCITY (FT/S)
Vessel Collision Event = Mean High Water (MHW)	375.6 ft	2.52*
Medium Navigational Flow Event Discharge = 50,000 cfs	376.8 ft	2.52*

Velocities for the Drift Barge vary across the cross section and are shown in Table 5. The velocities shown are the largest in the group of bents shown in the list.

TABLE 5 – STREAM VELOCITIES OF DRIFT BARGE EVENTS (100-YR)

BENT NO.	WATER SURFACE ELEVATION	STREAM VELOCITY (FT/S)
Bents 2 - 11	402.6 ft	3.5
Bents 12 - 16	402.6 ft	9.0
Bents 17 - 18	402.6 ft	5.0
Bents 19 - 33	402.6 ft	3.5

The minimum depth of water in the channel from Normal Pool elevation of 370.00 feet to the bottom of the channel is 14.8 feet at the proposed bridge location. Loaded vessels need a minimum of 9.0 feet of water to operate. For the water depths from the MHW elevation, see Table 6 below.

TABLE 6 - WATER DEPTHS FOR VESSEL COLLISION EVENT

BENT NO.	RIVER BOTTOM ELEVATION	WATER ELEVATION	WATER DEPTH
Bent 13	390.5 ft	375.6 ft	0 ft
Bent 14	354.5 ft	375.6 ft	21.1 ft
Bent 15	361.0 ft	375.6 ft	14.6 ft

The drift barge load is to be applied to bridges when there is 2 feet of water or more. The water depths for the drift barge event are shown in Table 7. Drift barge forces are not applied to the abutments.

TABLE 7 - WATER DEPTHS FOR DRIFT BARGE IMPACT EVENT

BENT NO.	GROUND ELEVATION	WATER ELEVATION	WATER DEPTH
Bent 2	393.5 ft	402.6 ft	9.1 ft
Bent 3 – 5	386.0 ft	402.6 ft	16.6 ft
Bent 6 & 7	387.0 ft	402.6 ft	15.6 ft
Bent 8	390.0 ft	402.6 ft	12.6 ft
Bent 9 & 10	391.0 ft	402.6 ft	11.6 ft
Bent 11	388.0 ft	402.6 ft	14.6 ft
Bent 12	395.0 ft	402.6 ft	7.6 ft
Bent 13	390.5 ft	402.6 ft	12.1 ft
Bent 14	354.5 ft	402.6 ft	48.1 ft
Bent 15	360.8 ft	402.6 ft	41.8 ft
Bent 16 - 18	386.0 ft	402.6 ft	16.6 ft
Bent 19 - 21	389.0 ft	402.6 ft	13.6 ft
Bent 22 - 23	398.0 ft	402.6 ft	4.6 ft
Bent 24 - 29	400.0 ft	402.6 ft	2.6 ft
Bent 30	396.0 ft	402.6 ft	6.6 ft
Bent 31	392.0 ft	402.6 ft	10.6 ft
Bent 32	394.0 ft	402.6 ft	8.6 ft

4.4 Overbank Characteristics

The flood plain, which extends south of Springhill Park to the Levee on the north near Gun Club Road, includes heavily treed areas upstream of the proposed bridge site as shown in Figure 4. The existing south bank has highly treed areas from the south abutment of Bridge 1 to the right

descending bank (south bank). The existing left descending bank (north bank) has some bare to light tree coverage from the north bank to Bridge 1 north abutment.

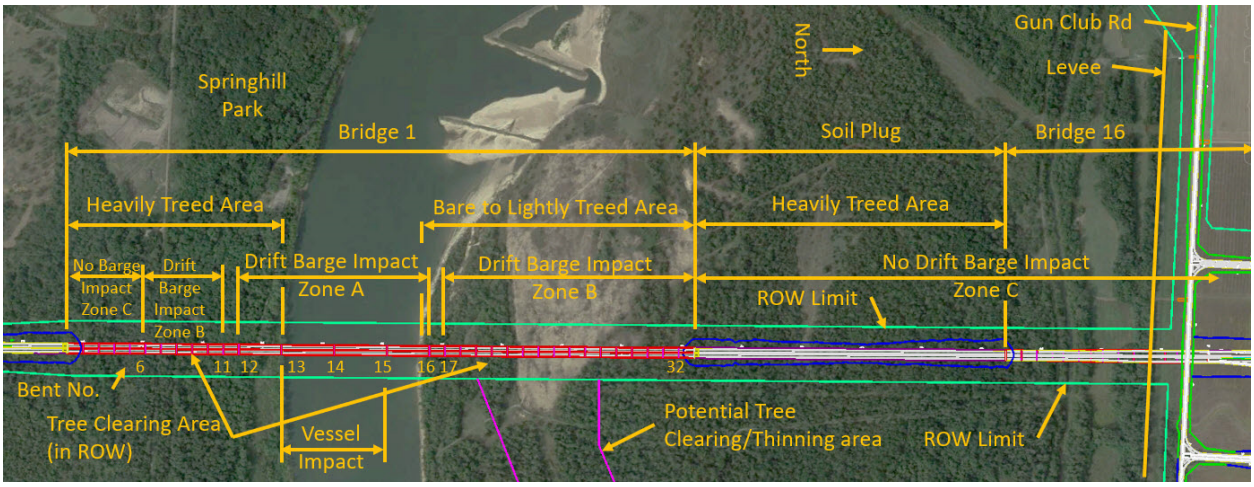

FIGURE 4 - TREED AREAS ADJACENT TO BRIDGE

There is a heavily treed area in front of the soil plug and from the south abutment of Bridge 16 to the levee is moderately treed. Bridge 16 is well protected from floating barges due to the distance from the river and the heavily treed areas protecting the bridge from a floating barge impact. Additionally, the bridge is just downstream of the dam, and with the lock near the south bank of the river, there will be minimal chance for a barge to drift north to Bridge 16 during an open flow event. Therefore, Bridge 16 will not include any drift barge impact loads on the bridge.

For our project, the area within the right-of-way (ROW) represented by the green lines under the proposed bridge location will be cleared of trees. The purple outline located east of the north approach of Bridge 1 is potentially going to be cleared of trees and partially thinned downstream of the bridge as part of the “no rise” mitigation strategy for the Section 408 permit.

The overbank characteristics have an effect on the design decisions regarding vessel collision and drift barge impact for our project and are summarized below.

The design drift barge load will be applied to some of the bents on the bridge at the 100-year hydraulic event. The bridge is divided in 3 categories, Zone A, Zone B and Zone C and are shown in Figure 4. Zone A represents a high impact load due to the proximity of the channel and higher velocities. Zone B is a low impact zone due to the lower velocities and distance away from the main channel. Zone C is an area where no drift barge impact will be considered due to the heavily treed area and distance from the channel. Table 8 includes a summary of each bridge bent and the associated drift barge impact zone designation.

TABLE 8 - DRIFT BARGE IMPACT EVENT ZONES

DRIFT BARGE EVENT	BENT NOS.
Zone A	Bridge 1: 12 - 16
Zone B	Bridge 1: 6 – 11 & 17 - 32
Zone C	Bridge 1: 2 – 5 Bridge 16: All bents

The south bank bent, Bent 13, is located on the bank and out of the water during a high navigational flow event. The high navigational flow event is defined as a flow of 100,000 cfs which has a water surface elevation of 382.83 feet. The bridge is in an 87-degree curve of the river, as shown in Figure 3, and is along the south bank. There is revetment currently in place and stable and the new bent will have revetment and scour protection to help keep the bank stable. There is a chance this bent could be eroded in the future and will be designed for a vessel collision load similar to Bents 14 and 15. The other two bents, Bents 14 and 15, are in the channel and will be designed for a loaded vessel collision event at the MHW event.

TABLE 9 - VESSEL COLLISION EVENT BENTS

VESSEL COLLISION EVENT	BENT NOS.
South Bank Bent	13
Channel Bents	14 & 15

5.0 Vessel Fleet Characteristics

The vessel data was gathered from the USACE Waterborne Commerce Statistics Center regarding the number of barges that have been recorded at this location of the river. The total number of barges that traversed the river were provided as well as if they were upbound or downbound, barge dimensions and their associated loaded and unloaded draft. The data was provided from 2005-2019 and is included in Appendix B, Vessel Data.

5.1 Categories

There are two categories for vessels used on the MKARNS. They are barge tows with jumbo hopper barges and barge tows with oversize tanker barges. Each jumbo hopper barge is 35 feet wide and 195 feet long. The oversize tanker barges are 53 feet wide and 290 feet long. A summary of the number of individual barges is shown in Table 10.

TABLE 10 - NUMBER OF INDIVIDUAL BARGES PER YEAR

YEAR	LOADED HOPPER BARGES UPBOUND	LOADED HOPPER BARGES DOWNBOUND	LOADED TANKER BARGES UPBOUND	LOADED TANKER BARGES DOWNBOUND	TOTAL
2005	1,769	994	142	120	
2006	1,743	958	139	98	
2007	1,616	803	57	161	
2008	1,212	974	73	184	
2009	1,199	973	102	188	
2010	1,548	1,606	54	174	
2011	1,742	1,436	84	236	
2012	1,861	1,498	77	385	
2013	2,629	1,779	80	360	
2014	2,891	1,659	85	201	
2015	2,298	1,263	72	96	
2016	2,008	1,639	58	223	
2017	2,075	1,766	52	375	
2018	2,231	1,617	64	227	
2019	1,307	954	54	64	
Total	**28,129**	**19,919**	**1,193**	**3,092**	**52,333**

The data collected from USACE does not keep track of the number of barges per tow. The individual barges were assembled into a 3 barge wide by 5 barge long tow for the jumbo hopper barges and a 1 barge wide by 2 barge long tow for the oversize tanker barges. The 3 by 5 barge tow configuration was dictated by the USCG. The number of tows is shown below in Table 11 and the bottom of the table shows the average number of tows per year and the maximum and minimum number of tows per year. The number of tows selected for the vessel collision force calculations is in between the maximum number of tows and the average number of tows. The number used in design is at the bottom of the table and is defined as the variable N.

TABLE 11 - NUMBER OF BARGE TOWS, N

YEAR	LOADED HOPPER BARGES UPBOUND	LOADED HOPPER BARGES DOWNBOUND	LOADED TANKER BARGES UPBOUND	LOADED TANKER BARGES DOWNBOUND
2005	118	67	71	60
2006	117	64	70	49
2007	108	54	29	81
2008	81	65	37	92
2009	80	65	51	94
2010	104	108	27	87
2011	117	96	42	118
2012	125	100	39	193
2013	176	119	40	180
2014	193	111	43	101
2015	154	85	36	48
2016	134	110	29	112
2017	139	118	26	188
2018	149	108	32	114
2019	88	64	27	32
Max	**193**	**119**	**71**	**193**
Average	**126**	**89**	**40**	**103**
Min	**80**	**54**	**26**	**32**
Used in Calculations, N	**140**	**95**	**45**	**120**

Each barge tow has a tugboat and a few of the tugboats that go through the lock are identified in the flotilla report. The vessel data for the tugboats is available on the USACE website and the maximum horsepower of the tugboats was 4000 with an average of 3162 horsepower. Through tugboat research, the approximate dimensions were used to calculate the displacement tonnage of the tugboat. The displacement tonnage ranged from 899 tons to 321 tons with the average of 620 tons. For the force calculations, the tugboat displacement tonnage was 650 tons.

5.2 Transit Speeds

The transit speeds were taken from the average speeds in the SCI study, shown in Appendix C, and were rounded to the nearest 0.5 miles per hour (mph) and then converted to feet per second (ft/s). Those values are summarized in Table 12.

TABLE 12 - VESSEL TRANSIT SPEEDS IN THE CHANNEL

TRANSIT VELOCITY	MPH	FT/S
Typical Upbound, Vt	6.5	9.5
Typical Downbound, Vt	7.5	11.0
Minimum Upbound, Vmin	2.0	2.9
Minimum Downbound, Vmin	3.0	4.4

The speeds were adjusted based on the distance from the channel for each bent location as shown in Figure 5. The distribution is based on AASHTO using a vessel length overall (LOA) for the jumbo hopper barge tow of 1121 feet and 726 feet for the oversize tanker barges. The dimensions for Figure 5 are shown in Table 13 and the design speed at each bent is shown in Table 14.

TABLE 13 - DIMENSIONS FOR TRANSIT SPEED

DIMENSIONS	FEET
A	200
B	215
C	440

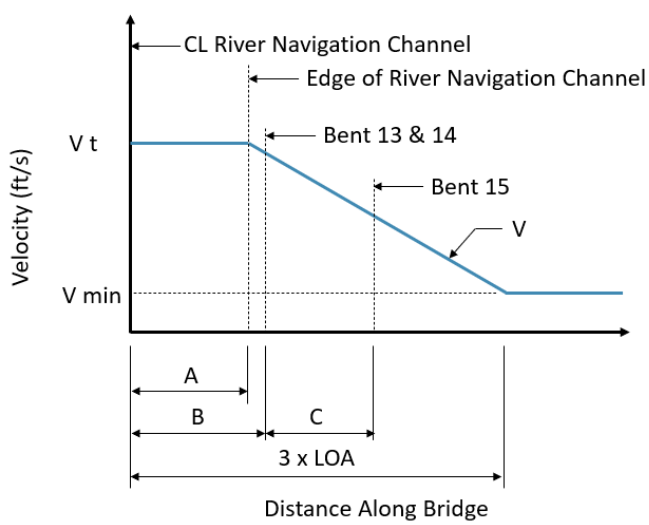

FIGURE 5 - DESIGN IMPACT SPEED DISTRIBUTION

TABLE 14 - DESIGN VELOCITIES PER BENT

TRANSIT VELOCITY	BENT 13	BENT 14	BENT 15
Jumbo Hopper Upbound, V (ft/s)	9.5	9.5	8.6
Jumbo Hopper Downbound, V (ft/s)	11.0	11.0	10.1
Oversized Tanker Upbound, V (ft/s)	9.5	9.5	8.1
Oversized Tanker Downbound, V (ft/s)	11.0	11.0	9.5

5.3 Transit Path

The transit path through this section of the river is considered one-way at a time. The first tow would have to transit under the bridge before the second tow could pass due to the wide swing of the tow vessel. There is low traffic on this river navigation system.

6.0 Vessel Impact Calculations

There are two load types considered for this structure and they are vessel collision and drift barge impact. The vessel collision load is intended to mimic a collision force that results under normal waterway conditions. The drift barge impact load is applied during a flood event and is considered to be a break-away barge. The vessel impact calculations are included in Appendix G, Vessel Collision Calculations and are summarized below. The bridge is considered essential for vessel collision loads. No additional vessel collision protection, such as dolphins or a fender system, will be used and the Potential Protection factor, PF, is equal to 1.0.

6.1 Probability of Aberrancy

As stated in AASHTO, the probability of aberrancy, PA, is a value related to the statistical probability that a vessel will stray off-course and threaten the bridge. This value is usually related to pilot error, environmental conditions, or mechanical failure. The bend in the river is included in this calculation. The PA factor was calculated for his bridge and is equal to 0.00102.

6.2 Geometric Probability

The geometric probability, PG, is defined as the conditional probability that a vessel will hit a bridge bent given that it has lost control in the vicinity of the bridge. The PG values are defined in Table 15.

TABLE 15 - GEOMETRIC PROBABILITY, PG

	BENTS 13 & 14	BENT 15
Jumbo Hopper Barge Tow	0.04013	0.03440
Oversize Tanker Barge Tow	0.03306	0.02290

6.3 Equivalent Static Force

The equivalent static barge impact force, P_B, is calculated using the barge damage depth, a_B and the barge damage depth depends on the vessel collision energy, KE.

A quick summary of AASHTO provides the following equation for vessel collision energy, KE (k*ft) = $C_H * W * V^2 / 29.2$. The displacement tonnage includes the towboat plus the number of barges in the length of the tow. Barges across the width of the tow are assumed to break away upon impact and are neglected. The values for KE for this bridge are shown in Table 16.

TABLE 16 - KINETIC ENERGY PER BENT, KE

	BENT 12	BENT 13	BENT 14	BENT 15	BENT 16
Jumbo Hopper Barge Tow Upbound – Loaded (k*ft)	0.0	0.0	29,384	23,973	0.0
Jumbo Hopper Barge Tow Downbound – Loaded (k*ft)	0.0	0.0	39,121	32,835	0.0
Oversized Tanker Barge Tow Upbound – Loaded (k*ft)	0.0	0.0	26,661	19,028	0.0
Oversized Tanker Barge Tow Downbound – Loaded (k*ft)	0.0	0.0	35,495	26,590	0.0

The barge damage depth equation in AASHTO is, a_B = [(1+KE/5672)^0.5 – 1] * 10.2. The values for a_B are shown in Table 17.

TABLE 17 - BARGE BOW DAMAGE DEPTH, A_B

	BENT 12	BENT 13	BENT 14	BENT 15	BENT 16
Jumbo Hopper Barge Tow Upbound – Loaded (ft)	0.0	0.0	15.2	13.1	0.0
Jumbo Hopper Barge Tow Downbound – Loaded (ft)	0.0	0.0	18.5	16.4	0.0
Oversized Tanker Barge Tow Upbound – Loaded (ft)	0.0	0.0	14.2	11.1	0.0
Oversized Tanker Barge Tow Downbound – Loaded (ft)	0.0	0.0	17.3	14.1	0.0

The resulting equivalent static force for the vessel collision event is summarizes per bent in Table 18.

TABLE 18 - STATIC VESSEL COLLISION FORCE, P_B

	BENT 12	BENT 13	BENT 14	BENT 15	BENT 16
Jumbo Hopper Barge Tow Upbound – Loaded (k)	0.0	0.0	3,016	2,792	0.0
Jumbo Hopper Barge Tow Downbound – Loaded (k)	0.0	0.0	3,380	3,150	0.0
Oversized Tanker Barge Tow Upbound – Loaded (k)	0.0	0.0	2,906	2,568	0.0
Oversized Tanker Barge Tow Downbound – Loaded (k)	0.0	0.0	3,250	2,903	0.0

A similar calculation is performed for a drift barge impact. Per AASHTO, this represents a single unloaded hopper barge drifting with the current during the 100-year flood event. The static drift barge impact forces for the bents are shown in Table 19 and are to be applied at the elevation shown.

TABLE 19 - STATIC DRIFT BARGE IMPACT FORCES

	P_B (kips)	Elevation (ft)
Bents 6 - 11	300	413.0
Bents 12 - 16	1410	413.0
Bents 17 - 18	600	413.0
Bents 19 - 32	300	413.0

6.4 Probability of Collapse

To determine the probability of collapse, PC, the ultimate bridge resistance of the bent, H, is selected. The probability of collapse uses the ratio of the ultimate bridge resistance (H) over the static barge collision force (P_B). If this value is above 1.0, then the ultimate bridge resistance selected is higher than the static barge collision force using the assumptions stated in the calculations and the probability of collapse is equal to 0.0 for that case and does not contribute to the annual frequency of collapse. If the value is less than 1.0, the probability of collapse is calculated and used in the annual frequency of collapse calculations. In this case, 3,100 kips is selected as the ultimate bridge bent resistance and the resulting PC is shown in Table 20 for each bent.

TABLE 20 - PROBABILITY OF COLLAPSE, PC

	BENT 12	BENT 13	BENT 14	BENT 15	BENT 16
Jumbo Hopper Barge Upbound	0.0	0.0	0.0	0.0	0.0
Jumbo Hopper Barge Downbound	0.0	0.0	0.00920	0.00178	0.0
Oversize Tanker Barge Upbound	0.0	0.0	0.0	0.0	0.0
Oversized Tanker Barge Downbound	0.0	0.0	0.00511	0.0	0.0

6.5 Annual Frequency of Collapse

This bridge is considered to be essential for vessel collision load calculations. This means the acceptable annual frequency of collapse, AF, shall be less than 0.0001 for the entire structure. The AF is calculated for each bent and vessel arrangement using AASHTO equation, AF = (N) * (PA) * (PG) * (PC) * (PF) and is shown in Table 21. The summation of AF for all applicable bents is shown in the table as 0.000063 which is less than 0.0001. This means that the ultimate bridge resistance of 3,100 kips at Bent 14 and 15 provides adequate capacity for vessel collision event and can be used for design of the structure. This resistance force shall be applied as a horizontal load at elevation 380.00.

TABLE 21 - ANNUAL FREQUENCY OF COLLAPSE, AF

	BENT 12	BENT 13	BENT 14	BENT 15	BENT 16	TOTAL
Jumbo Hopper Barge Upbound	0.0	0.0	0.0	0.0	0.0	0.0
Jumbo Hopper Barge Downbound	0.0	0.0	0.000036	0.000006	0.0	0.000042
Oversize Tanker Barge Upbound	0.0	0.0	0.0	0.0	0.0	0.0
Oversized Tanker Barge Downbound	0.0	0.0	0.000021	0.0	0.0	0.000021
Total	0.0	0.0	0.000057	0.000006	0.0	0.000063

7.0 Substructure Design

The design of the substructure will be in accordance with AASHTO and the recommended load combinations for the extreme event of vessel collision. Vessel collision extreme events shall be combined with scour and will follow the following recommendations from AASHTO.

- The drift barge impact event will be combined with one half the predicted long-term scour plus one half the predicted short-term scour. The short-term scour will be based on a 100-year flow event.

- The vessel collision load case applied at MHW under typical waterway conditions will be designed for one half of the predicted long-term scour.

Elements above ground that are easily inspected and repaired will be designed for the extreme event capacity such as the strut. Foundation elements under the ground will be designed for a strength limit capacity. Structural stability will be evaluated in the unlikely event one of the columns have been structurally compromised.

Appendix A

Flotilla Report

Lock Queue Flotilla Report

Select a River System: MK - MC-KERR ARKANSAS RIV NAV SYS

Select a Lock: 13 - JAMES W. TRIMBLE LOCK AND DAM

Submit

Avg Processing in Minutes (Past 24 Hours): **115**

Avg Delay in Minutes (Past 4 Hours): **N/A**

Avg Delay in Minutes (Past 24 Hours): **0**

Report Runs Every 15-Minutes: Last Updated (EST) **03/09/21 04:45 PM**

Notice: As of 10/1/2016 the Average Delay calculations include vessels still waiting in the queue.
For more information on how each value is calculated, click the links above.

Most Recent Lockages Flotilla

Go Rows 15 Actions

Vessel Name	Vessel No	Direction	Num Barges	Arrival Date	Sol Date	End Of Lockage	Timezone	Delay Mins
MISS ALEX	1223095	D	12	03/09/2021 08:20	03/09/2021 08:20	03/09/2021 11:10	CST	0
RISEN SAVIOUR	1191228	U	6	03/08/2021 21:23	03/08/2021 21:23	03/08/2021 22:23	CST	0
BRUCE OAKLEY	1239706	U	8	03/08/2021 11:50	03/08/2021 11:50	03/08/2021 13:00	CST	0
BEVERELY ANNE	1232134	D	12	03/07/2021 16:22	03/07/2021 16:22	03/07/2021 18:25	CST	0
JOBETH JANOUSH	1267567	D	12	03/07/2021 09:19	03/07/2021 09:19	03/07/2021 11:35	CST	0

Lock Queue Report

Avg Delay in Minutes (Past 4 Hours): **N/A**

Avg Delay in Minutes (Past 24 Hours): **0**

Report Runs Every 15-Minutes: Last Updated (EST) **03/24/21 05:30 PM**

Notice: As of 10/4/2016 the Average Delay calculations include vessels still waiting in the queue.
For more information on how each value is calculated, click the links above.

Most Recent Lockages

Go Rows 15 Actions

Vessel Name	Vessel No	Direction	Nbr of Barges Proc	Arrival Date	Sol Date	End Of Lockage	Timezone	Delay Minutes	Seq No
BEVERELY ANNE	1232134	D	6	03/24/2021 11:25	03/24/2021 11:25	03/24/2021 12:30	CST	0	-
RISEN SAVIOUR	1191228	D	3	03/24/2021 08:15	03/24/2021 08:15	03/24/2021 09:00	CST	0	-
SACRED HEART	1203067	D	4	03/23/2021 11:55	03/23/2021 11:55	03/23/2021 12:45	CST	0	-
TAMELA LEIGH	1253481	D	6	03/23/2021 07:45	03/23/2021 07:45	03/23/2021 08:40	CST	0	-
ST. PHILLIP	1265641	D	3	03/23/2021 06:40	03/23/2021 06:40	03/23/2021 07:40	CST	0	-

1 - 5

Lock Queue Report

Select a river system and a lock, then click the Submit button to view a report of the most recent vessel traffic reported at the lock.

Select a River System: MK - MC-KERR ARKANSAS RIV NAV SYS

Select a Lock: 13 - JAMES W. TRIMBLE LOCK AND DAM

Submit

Avg Processing in Minutes (Past 24 Hours): 60

Avg Delay in Minutes (Past 4 Hours): N/A

Avg Delay in Minutes (Past 24 Hours): 0

Report Runs Every 15-Minutes: Last Updated (EST) 01/07/22 11:01 AM

Notice: As of 10/4/2016 the Average Delay calculations include vessels still waiting in the queue.
For more information on how each value is calculated, click the links above.

Most Recent Lockages

Go Rows 15 Actions

Vessel Name	Vessel No	Direction	Nbr of Barges Proc	Arrival Date	Sol Date	End Of Lockage	Timezone	Delay Minutes	Seq No
ST. MATTHIAS	1273328	U	6	01/06/2022 22:15	01/06/2022 22:15	01/06/2022 23:15	CST	0	-
DOROTHY M JANOUSH	1229804	U	6	01/06/2022 06:05	01/06/2022 07:37	01/06/2022 08:15	CST	0	-
DOROTHY M JANOUSH	1229804	U	6	01/06/2022 06:05	01/06/2022 06:05	01/06/2022 07:20	CST	0	-
LUCY JANOUSH	1236255	D	6	01/06/2022 00:42	01/06/2022 01:52	01/06/2022 02:35	CST	0	-
LUCY JANOUSH	1236255	D	6	01/06/2022 00:42	01/06/2022 00:42	01/06/2022 01:40	CST	0	-
CHERYL STEGBAUER	0568268	D	2	01/05/2022 23:40	01/05/2022 23:40	01/06/2022 00:40	CST	0	-
PAULA FORTIER	1245589	D	1	01/04/2022 17:13	01/04/2022 17:13	01/04/2022 17:56	CST	0	-

4000 HP 1 tow 12 barges

4000 HP 1 tow 12 barges

Lock Queue Report

Select a River System: MK - MC-KERR ARKANSAS RIV NAV SYS

Select a Lock: 13 - JAMES W. TRIMBLE LOCK AND DAM

Submit

Avg Processing in Minutes (Past 24 Hours): 66

Avg Delay in Minutes (Past 4 Hours): N/A

Avg Delay in Minutes (Past 24 Hours): 0

Report Runs Every 15-Minutes: Last Updated (EST) 01/20/22 12:16 PM

Notice: As of 10/4/2016 the Average Delay calculations include vessels still waiting in the queue.
For more information on how each value is calculated, click the links above.

Most Recent Lockages

Go Rows 15 Actions

Vessel Name	Vessel No	Direction	Nbr of Barges Proc	Arrival Date	Sol Date	End Of Lockage	Timezone	Delay Minutes	Seq No
PAULA FORTIER	1245589	U	2	01/20/2022 03:10	01/20/2022 03:10	01/20/2022 04:10	CST	0	-
SCOTT STEGBAUER	1218210	D	2	01/19/2022 11:35	01/19/2022 11:35	01/19/2022 12:47	CST	0	-
TAMELA LEIGH	1253481	U	6	01/18/2022 14:00	01/18/2022 15:40	01/18/2022 16:30	CST	0	-
TAMELA LEIGH	1253481	U	5	01/18/2022 14:00	01/18/2022 14:00	01/18/2022 15:20	CST	0	-

1 tow
11 barges

1 - 4

Lock Queue Report

Select a River System: MK - MC-KERR ARKANSAS RIV NAV SYS

Select a Lock: 13 - JAMES W. TRIMBLE LOCK AND DAM

Submit

Avg Processing in Minutes (Past 24 Hours): **N/A**

Avg Delay in Minutes (Past 4 Hours): **91**

Avg Delay in Minutes (Past 24 Hours): **91**

Report Runs Every 15-Minutes: Last Updated (EST) **03/15/22 06:16 PM**

Notice: As of 10/4/2016 the Average Delay calculations include vessels still waiting in the queue.
For more information on how each value is calculated, click the links above.

Most Recent Lockages

Go Rows 15 Actions

Vessel Name	Vessel No	Direction	Nbr of Barges Proc	Arrival Date	Sol Date	End Of Lockage	Timezone	Delay Minutes	Seq No
MISS ALEX	1223095	U	8	03/15/2022 15:46	-	-	CST	91	-
ROBERT INGLE	0282986	U	2	03/14/2022 07:00	03/14/2022 07:00	03/14/2022 08:00	CST	0	-
DAVID CHOATE	1278280	D	4	03/13/2022 23:50	03/14/2022 01:20	03/14/2022 02:30	CST	0	-
DAVID CHOATE	1278280	D	6	03/13/2022 23:50	03/13/2022 23:50	03/14/2022 01:00	CST	0	-
THE COLONEL	1299342	U	2	03/13/2022 13:30	03/13/2022 13:30	03/13/2022 14:30	CST	0	-
HOLY ROSARY	1217490	D	4	03/13/2022 08:00	03/13/2022 08:00	03/13/2022 09:00	CST	0	-
BEVERELY ANNE	1232134	U	6	03/13/2022 05:35	03/13/2022 07:05	03/13/2022 07:50	CST	0	-
BEVERELY ANNE	1232134	U	6	03/13/2022 05:35	03/13/2022 05:35	03/13/2022 06:45	CST	0	-

US Army Corps of Engineers Lock Performance Monitoring System

Reports | Web Services | Glossary

LPMS Public Web - Home / **Lock Queue Report**

Select a river system and a lock, then click the Submit button to view a report of the most recent vessel traffic reported at the lock.

Select a River System: MK - MC-KERR ARKANSAS RIV NAV SYS

Select a Lock: 13 - JAMES W. TRIMBLE LOCK AND DAM

Submit

Avg Processing in Minutes (Past 24 Hours): **59**

Avg Delay in Minutes (Past 4 Hours): **0**

Avg Delay in Minutes (Past 24 Hours): **0**

Report Runs Every 15-Minutes: Last Updated (EST) **04/13/22 11:02 AM**

Notice: As of 10/4/2016 the Average Delay calculations include vessels still waiting in the queue.
For more information on how each value is calculated, click the links above.

Most Recent Lockages

Go Rows 15 Actions

Vessel Name	Vessel No	Direction	Nbr of Barges Proc	Arrival Date	Sol Date	End Of Lockage	Timezone	Delay Minutes	Seq No
LUCY JANOUSH	1236255	U	8	04/13/2022 07:41	04/13/2022 07:41	04/13/2022 08:37	CST	0	-
ROBERT INGLE	0282986	D	2	04/12/2022 16:30	04/12/2022 16:30	04/12/2022 17:30	CST	0	-
ST. MATTHIAS	1273328	U	3	04/12/2022 12:45	04/12/2022 12:45	04/12/2022 13:45	CST	0	-
BEVERELY ANNE	1232134	U	7	04/12/2022 06:30	04/12/2022 06:30	04/12/2022 07:30	CST	0	-
CHERYL STEGBAUER	0568268	U	2	04/11/2022 21:40	04/11/2022 21:40	04/11/2022 22:25	CST	0	-
JO ANNE STEGBAUER	0579809	U	4	04/11/2022 18:25	04/11/2022 18:25	04/11/2022 19:40	CST	0	-
KIEFFER E. BAILEY	1253271	D	8	04/11/2022 16:00	04/11/2022 16:00	04/11/2022 17:15	CST	0	-
M/V DAN REEVES	1374262	D	0	04/11/2022 11:00	04/11/2022 11:00	04/11/2022 12:00	CST	0	-
EL PASO	1260021	U	6	04/10/2022 23:40	04/11/2022 01:00	04/11/2022 01:55	CST	0	-
EL PASO	1260021	U	6	04/10/2022 23:40	04/10/2022 23:40	04/11/2022 00:40	CST	0	-
AMY FRANCES	0602459	D	2	04/10/2022 16:30	04/10/2022 16:30	04/10/2022 17:30	CST	0	-
JOBETH JANOUSH	1267567	D	5	04/10/2022 13:45	04/10/2022 15:10	04/10/2022 16:00	CST	85	-

1 tow
12 barges

1 - 12

Appendix B

Vessel Data

Field	Description
DIRECTION	Direction of Vessel
TTYPE	Traffic Type, Foreign or Domestic
VTYPE	1=Self-propelled dry
	2= Tanker
	3 = Towboat
	4 = Dry Cargo barge
	5 = Liquid barge
	6=Other (cranes, etc.)
	0=Rafted Logs
REG_TONS	Net Registered Tons
CAP_TONS	Capacity Tons
OVER_LENGTH	Overall Length
OVER_BREADTH	Overall Breadth
ACTUAL_DRAFT	Actual Draft
LOAD_DRAFT	Loaded Draft
LIGHT_DRAFT	Light Draft
H_F_POINT	Highest Fixed Point with implied decimal point
YEAR	Year of Movements
CONTAINERIZED	Containerized Cargo, 1 or Y is yes, 0 or N is no
PUB_GROUP	4-digit commodity publication group
PUB_NAME	Commodity publication group name
TONS	Number of Short Tons
TRIPS	Number of trips per vessel

Natalie McCombs

From: Tujague, Amy C CIV USARMY CEIWR (USA) <Amy.C.Tujague@usace.army.mil>
Sent: Monday, January 10, 2022 10:39 AM
To: Natalie McCombs; Stender, Amy L CIV USARMY CEERD-CRREL (US)
Subject: RE: Vessel Data for New Bridge MM 291.6 of MKARNS

Yes, that is correct.

Amy

From: Natalie McCombs <NMccombs@HNTB.com>
Sent: Monday, January 10, 2022 10:00 AM
To: Tujague, Amy C CIV USARMY CEIWR (USA) <Amy.C.Tujague@usace.army.mil>; Stender, Amy L CIV USARMY CEERD-CRREL (US) <Amy.Stender@usace.army.mil>
Subject: [Non-DoD Source] RE: Vessel Data for New Bridge MM 291.6 of MKARNS

Amy –

We are finishing our report and wanted to confirm the data you gave us is for each vessel. I made an assumption based on previous projects but for QC purposes, can you confirm the following?

"Each barge is 1 trip in our system. For example, a tow with 4 barges and 1 towboat would be a total of 5 trips in our system since we collect each vessel separately."

Thanks,

Natalie McCombs, PE, SE, ENV SP
HNTB Associate Fellow
Bridge Department
Tel (816) 527-2173 **Email** nmccombs@hntb.com

From: Tujague, Amy C CIV USARMY CEIWR (USA) <Amy.C.Tujague@usace.army.mil>
Sent: Monday, October 25, 2021 10:29 AM
To: Natalie McCombs <NMccombs@HNTB.com>; Stender, Amy L CIV USARMY CEERD-CRREL (US) <Amy.Stender@usace.army.mil>
Subject: RE: Vessel Data for New Bridge MM 291.6 of MKARNS

I found this sitting in my Outbox and I don't know if it ever went through. I am sending this in case it was never received.

Amy

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Hi Natalie,

I have been slowly digging myself out of my pile of work since Hurricane Ida (we were out of work for 2 weeks) and I was able to get this completed for you before October 1st. I sincerely apologize for the delay.

I have attached Calendar Years 2005-2019 commodity and trip data for commercial movements on the Arkansas River past mile point 291. Our mile points are one mile long in that mile point 291 encompasses 291.0-291.9. There are no docks in the area, so there would not be a difference at any fraction of a mile.

Please feel free to contact me with any follow up questions.

Also, I am having Outlook mail problems and you may receive this message twice.

Kind regards,

Amy

Amy Tujague PMP

Special Requests Project Manager

USACE Waterborne Commerce Statistics Center

504-862-1441

Amy.C.Tujague@usace.army.mil

This e-mail and any files transmitted with it are confidential and are intended solely for the use of the individual or entity to whom they are addressed. If you are NOT the intended recipient and receive this communication, please delete this message and any attachments. Thank you.

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2005		13			13							
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2005	N	1			1							
Upbound	Domestic	4	1664	2010	200.0	35.0	8	10.6	1.3	6.7	220	2005		2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2005		1			1							
Upbound	Domestic	4	000680	943	200.0	35.0	8	10.0	1.6	6.4	180	2005		4			4							
Upbound	Domestic	4	706	1627	200.0	35.0	8	9.0	1.3	6.7	155	2005		1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2005		4			4							
Upbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2005		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	6	13.0	1.6	4.4	165	2005		1			1							
Upbound	Domestic	5	785	1489	195.1	35.1	8	9.0	2.0	6.0	184	2005		2					2					
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2005	N	4			4							
Upbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2005		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2005		1							1			
Upbound	Domestic	3	99	999999	85.0	30.0	8	10.5	8.0	0.0	420	2005		4		4								
Upbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2005		1									1	
Upbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2005	N	1			1							
Upbound	Domestic	4	679	1502	195.0	35.0	9	9.0	1.7	7.3	191	2005		1			1							
Upbound	Domestic	4	000685	1455	195.0	35.0	8	10.0	1.8	6.2	180	2005		1			1							
Upbound	Domestic	4	743	1651	200.0	35.0	7	9.0	1.6	5.4	180	2005		1			1							
Upbound	Domestic	4	883	1496	195.0	35.0	8	9.0	1.7	6.3	204	2005		1			1							
Upbound	Domestic	4	745	1485	195.0	35.0	6	9.0	1.8	4.2	225	2005		1			1							
Upbound	Domestic	4	000886	1400	195.0	35.0	9	9.0	2.0	7.0	170	2005		1			1							
Upbound	Domestic	4	736	1654	200.0	35.0	8	9.0	1.5	6.5	185	2005		2			2							
Upbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2005		1			1							
Upbound	Domestic	4	950	1644	200.0	35.0	7	9.0	1.5	5.5	145	2005	N	1			1							
Upbound	Domestic	5	1803	2500	295.0	52.0	2	9.0	2.5	-0.5	340	2005		4									4	
Upbound	Domestic	4	764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2005		1			1							
Upbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2005		6			6							
Upbound	Domestic	4	700	1506	195.0	35.0	9	9.0	1.6	7.4	180	2005		1			1							
Upbound	Domestic	4	696	1648	200.0	35.0	9	9.0	1.5	7.5	169	2005		1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	7	9.0	1.5	5.5	223	2005		1			1							
Upbound	Domestic	4	985	1520	195.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2005		3			3							
Upbound	Domestic	5	780	1450	200.0	35.0	9	9.8	1.8	7.2	160	2005		1					1					
Upbound	Domestic	5	1593	3240	298.0	54.0	2	12.0	1.8	0.2	185	2005		1									1	
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2005		1									1	
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2005		4			4							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	185	2005		1			1							
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2005		2			2							
Upbound	Domestic	5	773	1475	195.0	35.0	9	9.0	1.3	7.7	165	2005		1					1					
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2005		1			1							
Upbound	Domestic	4	000764	2190	200.0	35.0	5	12.0	2.0	3.0	160	2005		1			1							
Upbound	Domestic	4	1065	1716	200.0	35.0	8	9.0	1.1	6.9	145	2005		2			2							
Upbound	Domestic	4	000705	1612	200.0	35.0	7	9.0	1.6	5.4	160	2005		1			1							
Upbound	Domestic	4	910	2096	195.0	35.0	8	12.0	1.8	6.2	240	2005		1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	7	9.0	1.6	5.4	165	2005		1			1							
Upbound	Domestic	5	798	1600	195.0	35.0	2	10.0	1.5	0.5	165	2005		3									3	
Upbound	Domestic	4	823	1627	200.0	35.0	12	12.0	1.8	10.2	230	2005		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.6	7.4	207	2005		1			1							
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2005		1			1							
Upbound	Domestic	4	196	375	61.6	31.2	8	9.0	2.0	6.0	125	2005		1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2005		2			2							
Upbound	Domestic	4	764	1637	200.0	35.0	7	9.0	1.5	5.5	155	2005		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	7	9.0	1.6	5.4	225	2005		2			2							
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2005		1			1							
Upbound	Domestic	4	917	1659	200.0	35.0	8	9.0	1.5	6.5	169	2005		1			1							
Upbound	Domestic	4	000687	1571	195.0	35.0	8	9.0	1.4	6.6	145	2005		1			1							
Upbound	Domestic	4	711	1732	195.0	35.0	1	10.0	1.6	-0.6	192	2005		1							1			
Upbound	Domestic	5	1632	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2005		1									1	
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2005		9			9							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2005		3			3							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	191	2005		1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2005		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2005		5			5							
Upbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2005		2			2							
Upbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2005		2			2							
Upbound	Domestic	4	907	1511	195.0	35.0	8	9.0	1.7	6.3	191	2005		1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2005		27			27							
Upbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.6	6.4	162	2005		1			1							
Upbound	Domestic	4	706	1633	200.0	35.0	7	9.0	1.6	5.4	160	2005		1			1							
Upbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2005		1			1							
Upbound	Domestic	4	741	2047	200.0	35.0	1	11.0	1.8	-0.8	193	2005		1							1			
Upbound	Domestic	4	000680	943	195.0	35.0	2	10.0	1.6	0.4	180	2005		1							1			
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2005		3			3							
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2005		4			4							
Upbound	Domestic	4	000706	1569	200.0	35.0	7	9.0	1.6	5.4	205	2005		1			1							
Upbound	Domestic	4	745	1458	195.0	35.0	8	9.0	1.9	6.1	205	2005		2			2							
Upbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2005		3			3							
Upbound	Domestic	4	716	1525	195.0	35.0	8	9.0	1.4	6.6	150	2005		1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	7	9.0	1.4	5.6	148	2005		2			2							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2005		2			2							
Upbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2005		1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2005		3			3							
Upbound	Domestic	5	891	1580	200.0	35.0	9	9.0	1.9	7.1	142	2005		1					1					
Upbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2005		1			1							
Upbound	Domestic	4	823	2500	200.0	35.0	9	12.0	2.0	7.0	250	2005		1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	9	9.0	1.5	7.5	155	2005		1			1							
Upbound	Domestic	4	000900	1426	195.0	35.0	8	9.0	1.5	6.5	170	2005		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2005		1			1							
Upbound	Domestic	4	705	1994	200.0	35.0	9	10.6	1.4	7.6	190	2005		1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	9	9.0	1.5	7.5	199	2005		1			1							
Upbound	Domestic	3	150	999999	92.0	30.0	9	8.5	8.5	0.5	420	2005		2		2								
Upbound	Domestic	5	797	1783	146.5	52.5	2	8.5	2.0	0.0	133	2005		1									1	
Upbound	Domestic	5	1698	3570	290.0	52.0	2	9.6	1.5	0.5	120	2005		1									1	
Upbound	Domestic	5	1555	3000	264.0	54.0	2	8.5	2.0	0.0	100	2005		3									3	
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2005		3			3							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2005		1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	4	9.0	2.0	2.0	130	2005		1							1			
Upbound	Domestic	4	471	1510	195.0	35.0	9	9.0	1.6	7.4	119	2005		1			1							
Upbound	Domestic	4	764	1619	200.0	35.0	8	9.0	1.3	6.7	165	2005		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	4	10.0	1.5	2.5	206	2005		1			1							
Upbound	Domestic	4	676	1725	195.0	35.0	9	10.0	1.6	7.4	200	2005		4			4							
Upbound	Domestic	4	743	1662	200.0	35.0	9	9.0	1.5	7.5	170	2005		1			1							
Upbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2005		2			2							
Upbound	Domestic	4	764	1535	200.0	35.0	9	9.0	1.8	7.2	225	2005		1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2005		1			1							
Upbound	Domestic	5	891	1591	200.0	35.0	9	9.0	1.9	7.1	142	2005		1					1					
Upbound	Domestic	4	910	1546	195.1	35.1	9	9.0	1.5	7.5	145	2005		1			1							
Upbound	Domestic	5	849	1660	200.0	35.0	9	9.0	1.6	7.4	170	2005		1					1					
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2005		1			1							
Upbound	Domestic	4	206	414	61.5	31.5	8	9.0	2.0	6.0	125	2005		1			1							
Upbound	Domestic	5	1414	3100	256.5	54.0	2	10.0	2.0	0.0	170	2005		1									1	
Upbound	Domestic	5	1698	3570	290.0	54.0	2	9.6	1.5	0.5	120	2005		1									1	
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2005		3									3	
Upbound	Domestic	4	764	1552	200.0	35.0	9	9.0	1.5	7.5	163	2005	N	1			1							
Upbound	Domestic	4	687	1571	195.0	35.0	8	9.0	1.3	6.7	145	2005		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2005		4			4							
Upbound	Domestic	5	773	1811	195.1	35.0	9	10.6	2.0	7.0	170	2005		2					2					
Upbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.5	6.5	192	2005		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2005		1			1							
Upbound	Domestic	4	794	1665	200.0	35.0	8	9.0	1.4	6.6	145	2005		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2005	N	2			2							
Upbound	Domestic	4	764	1559	200.0	35.0	7	9.0	1.5	5.5	170	2005		1			1							
Upbound	Domestic	5	855	1490	195.0	35.0	7	9.0	2.0	5.0	170	2005		1					1					
Upbound	Domestic	4	1020	1500	200.0	35.0	9	12.0	1.6	7.4	149	2005		1			1							
Upbound	Domestic	4	196	375	61.6	31.2	2	9.0	1.8	0.2	125	2005		1							1			
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2005		1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2005		1			1							
Upbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2005		2			2							
Upbound	Domestic	4	696	1686	200.0	35.0	8	9.0	1.3	6.7	132	2005		1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2005		2			2							
Upbound	Domestic	4	000680	943	200.1	35.1	8	10.0	1.6	6.4	180	2005		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2005		11			11							
Upbound	Domestic	4	687	1510	195.0	35.0	7	9.0	1.6	5.4	119	2005		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2005		3							3			
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2005		1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	7	9.0	1.4	5.6	235	2005	N	1			1							
Upbound	Domestic	4	564	1619	200.0	35.0	7	9.0	1.6	5.4	160	2005		2			2							
Upbound	Domestic	4	764	1639	200.0	35.0	7	9.0	1.6	5.4	225	2005		1			1							
Upbound	Domestic	4	705	1699	200.0	35.0	8	9.0	1.2	6.8	146	2005		1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	8	14.0	1.7	6.3	231	2005		1			1							
Upbound	Domestic	4	196	412	61.6	31.2	9	9.0	1.8	7.2	125	2005		1			1							
Upbound	Domestic	3	331	999999	135.1	35.0	7	8.5	8.0	-1.0	400	2005		1		1								
Upbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2005		88		88								
Upbound	Domestic	3	000318	609	147.0	38.0	8	9.0	8.0	0.0	470	2005		2		2								
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2005		2			2							
Upbound	Domestic	4	823	2410	200.0	35.0	8	14.0	1.5	6.5	190	2005		1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2005		3			3							
Upbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2005		2			2							
Upbound	Domestic	4	000764	1677	200.0	35.0	9	9.0	1.4	7.6	165	2005		1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2005		2			2							
Upbound	Domestic	4	705	1600	200.0	35.0	7	9.0	1.4	5.6	16	2005		1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	7	10.0	2.0	5.0	110	2005		47			47							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2005	N	1			1							
Upbound	Domestic	4	000823	2297	200.0	35.0	9	12.0	1.6	7.4	225	2005		1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	6	9.0	1.3	4.7	145	2005		1			1							
Upbound	Domestic	4	000900	1477	195.0	35.0	9	9.0	1.5	7.5	205	2005		1			1							
Upbound	Domestic	5	1619	3660	297.5	54.0	8	11.0	2.0	6.0	160	2005		3					3					
Upbound	Domestic	4	764	1613	200.0	35.0	8	9.0	1.8	6.2	220	2005		1			1							
Upbound	Domestic	4	1013	1508	195.0	35.0	8	8.7	1.7	6.3	211	2005		1			1							
Upbound	Domestic	4	946	1500	200.0	35.0	8	9.0	1.9	6.1	149	2005		2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	9	12.0	1.5	7.5	208	2005		2			2							
Upbound	Domestic	4	764	1886	200.0	35.0	7	10.0	1.5	5.5	150	2005		1			1							
Upbound	Domestic	4	799	1887	200.0	35.0	8	10.0	1.4	6.6	149	2005		1			1							
Upbound	Domestic	4	687	1518	195.0	35.0	9	9.0	1.6	7.4	150	2005		1			1							
Upbound	Domestic	5	1106	1800	175.0	54.0	2	10.0	2.0	0.0	170	2005		1									1	
Upbound	Domestic	5	001633	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2005		1									1	
Upbound	Domestic	5	2917	2400	295.0	52.5	2	9.0	2.0	0.0	320	2005		2									2	
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2005		5			5							
Upbound	Domestic	4	764	2267	200.0	35.0	9	11.9	1.7	7.3	223	2005		12			12							
Upbound	Domestic	4	712	1436	200.0	35.0	8	9.0	1.6	6.4	154	2005		1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2005		2			2							
Upbound	Domestic	4	1013	1508	195.0	35.0	9	8.7	1.7	7.3	145	2005		1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2005		16			16							
Upbound	Domestic	4	676	1501	195.1	35.1	8	9.0	1.6	6.4	210	2005		1			1							
Upbound	Domestic	4	975	1520	195.0	35.0	9	9.0	1.6	7.4	146	2005		1			1							
Upbound	Domestic	4	950	1669	200.0	35.0	8	9.0	1.5	6.5	194	2005		1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.6	5.4	149	2005	N	2			2							
Upbound	Domestic	4	705	1727	200.0	35.0	7	9.0	1.1	5.9	146	2005		2			2							
Upbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2005	N	1			1							
Upbound	Domestic	4	862	1736	195.0	35.0	9	10.0	1.5	7.5	192	2005		1			1							
Upbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2005		2									2	
Upbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2005		2							2			
Upbound	Domestic	4	764	1855	200.0	35.0	9	10.0	1.5	7.5	165	2005		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2005		1			1							
Upbound	Domestic	4	823	2748	200.0	35.0	9	14.0	1.5	7.5	215	2005		19			19							
Upbound	Domestic	4	889	1424	195.1	35.2	9	9.0	1.9	7.1	194	2005		2			2							
Upbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2005		5			5							
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2005		33		33								
Upbound	Domestic	4	000964	1642	200.0	35.0	2	9.0	1.5	0.5	145	2005		1							1			
Upbound	Domestic	5	001619	3526	300.0	54.0	2	10.0	2.3	-0.3	189	2005		1									1	
Upbound	Domestic	5	741	1481	195.0	35.0	2	10.0	2.0	0.0	170	2005		1									1	
Upbound	Domestic	4	1206	2542	200.0	50.0	9	11.0	2.5	6.5	108	2005		1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	190	2005		1			1							
Upbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2005		3			3							
Upbound	Domestic	5	1632	4744	300.0	54.0	9	11.6	2.3	6.7	189	2005		0					0					
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2005		1			1							
Upbound	Domestic	4	743	1650	200.0	35.0	8	9.0	1.5	6.5	166	2005		1			1							
Upbound	Domestic	4	909	1445	195.0	35.0	9	9.0	1.9	7.1	203	2005		2			2							
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2005		8			8							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2005		1			1							
Upbound	Domestic	4	848	1526	195.0	35.0	8	9.0	1.6	6.4	192	2005		1			1							
Upbound	Domestic	4	206	414	61.5	31.2	7	9.0	2.0	5.0	125	2005		2			2							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2005		2			2							
Upbound	Domestic	4	764	1854	200.0	35.0	2	10.0	1.6	0.4	224	2005		1							1			
Upbound	Domestic	4	705	1609	200.0	35.0	9	9.0	1.7	7.3	175	2005		1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2005		4			4							
Upbound	Domestic	5	788	1488	195.0	35.0	9	9.0	2.5	6.5	140	2005		1					1					
Upbound	Domestic	4	706	1660	200.0	35.0	9	9.0	1.5	7.5	196	2005		1			1							
Upbound	Domestic	4	000944	1455	200.0	35.0	8	10.0	1.6	6.4	180	2005		2			2							
Upbound	Domestic	4	823	2304	200.0	35.0	6	10.0	1.7	4.3	190	2005		1			1							
Upbound	Domestic	4	950	1500	200.1	35.0	8	9.0	1.9	6.1	149	2005		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2005		4			4							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	166	2005		1			1							
Upbound	Domestic	3	200	999999	114.8	30.0	8	8.6	7.0	1.0	340	2005		1		1								
Upbound	Domestic	4	206	414	61.5	31.2	9	9.0	2.0	7.0	125	2005		6			6							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2005		18			18							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2005		2			2							
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2005		3			3							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2005		2			2							
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2005	N	1							1			
Upbound	Domestic	5	1755	4211	297.7	54.0	9	11.0	1.5	7.5	200	2005		3					3					
Upbound	Domestic	4	907	1510	195.0	35.0	8	9.0	1.6	6.4	163	2005		1			1							
Upbound	Domestic	4	823	2291	200.0	35.0	9	12.0	1.5	7.5	225	2005		3			3							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2005	N	1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2005		2			2							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2005		1			1							
Upbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2005		2			2							
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2005		22		22								
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2005		1		1								
Upbound	Domestic	4	700	1487	195.0	35.0	2	11.0	1.7	0.3	180	2005		1							1			
Upbound	Domestic	4	764	1552	200.0	35.0	7	9.0	1.5	5.5	163	2005		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	1635	200.0	35.0	7	9.0	1.5	5.5	165	2005		1			1							
Upbound	Domestic	4	940	1500	195.0	35.0	9	9.6	1.8	7.2	150	2005		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2005		6			6							
Upbound	Domestic	4	700	1487	195.0	35.0	8	11.0	1.7	6.3	180	2005		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	6	10.0	1.5	4.5	206	2005		1			1							
Upbound	Domestic	4	942	1902	195.0	35.0	1	11.0	1.8	-0.8	180	2005		1							1			
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2005		4			4							
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2005	N	1			1							
Upbound	Domestic	4	687	1518	195.0	35.0	8	9.0	1.6	6.4	150	2005		1			1							
Upbound	Domestic	5	1455	2500	290.0	54.0	9	9.0	2.0	7.0	175	2005		1					1					
Upbound	Domestic	5	1301	2445	200.0	52.5	2	9.0	1.5	0.5	170	2005		1									1	
Upbound	Domestic	5	1038	2000	155.1	54.0	1	10.0	2.0	-1.0	180	2005		2									2	
Upbound	Domestic	4	862	1539	195.0	35.0	9	9.0	1.5	7.5	192	2005		1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2005		11			11							
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2005		3			3							
Upbound	Domestic	4	706	1578	200.0	35.0	5	9.0	1.5	3.5	205	2005		1			1							
Upbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2005		2			2							
Upbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2005		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2005		3							3			
Upbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2005		1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	7	13.0	2.0	5.0	165	2005		1			1							
Upbound	Domestic	4	688	1519	195.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	629	1500	200.0	35.0	9	9.0	1.6	7.4	149	2005		1			1							
Upbound	Domestic	5	825	1602	200.1	35.1	8	9.0	1.8	6.2	183	2005		1					1					
Upbound	Domestic	4	000706	1626	200.0	35.0	7	9.0	1.3	5.7	145	2005		1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2005		2			2							
Upbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2005		3		3								
Upbound	Domestic	3	000199	293	87.0	28.0	7	8.5	7.0	0.0	420	2005		1		1								
Upbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2005		1							1			
Upbound	Domestic	5	766	1485	195.0	35.0	9	8.5	2.0	7.0	133	2005		1					1					
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2005		1			1							
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2005		7			7							
Upbound	Domestic	4	848	2153	195.0	35.0	7	10.0	1.5	5.5	185	2005		1			1							
Upbound	Domestic	4	764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2005		3			3							
Upbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2005		2			2							
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2005		2			2							
Upbound	Domestic	4	687	1629	195.0	35.0	7	9.0	1.4	5.6	132	2005		3			3							
Upbound	Domestic	4	705	1578	200.0	35.0	6	9.0	1.5	4.5	180	2005		1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2005		7			7							
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2005		4			4							
Upbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	180	2005		1			1							
Upbound	Domestic	4	705	1880	200.0	35.0	7	10.0	1.4	5.6	140	2005	N	1			1							
Upbound	Domestic	5	886	1489	195.0	35.0	9	9.0	1.3	7.7	164	2005		1					1					
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2005	N	1			1							
Upbound	Domestic	5	1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2005		3									3	
Upbound	Domestic	5	1659	2500	295.0	54.0	2	9.0	2.0	0.0	90	2005		1									1	
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2005		7			7							
Upbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2005		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2005		3			3							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2005		8			8							
Upbound	Domestic	4	000687	1491	195.0	35.0	8	9.0	1.8	6.2	147	2005		1			1							
Upbound	Domestic	4	698	1659	200.0	35.0	8	9.0	1.3	6.7	185	2005		1			1							
Upbound	Domestic	5	1619	4337	297.0	54.0	7	12.0	2.0	5.0	240	2005		2					2					
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2005		1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	225	2005		1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	7	11.0	1.7	5.3	224	2005		1			1							
Upbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.9	6.1	194	2005		3			3							
Upbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2005	N	1			1							
Upbound	Domestic	4	764	1521	200.0	35.0	9	9.0	1.9	7.1	225	2005		2			2							
Upbound	Domestic	5	848	1400	195.0	35.0	8	9.5	1.8	6.2	170	2005		1					1					
Upbound	Domestic	5	000825	1422	195.0	35.0	9	9.0	1.1	7.9	194	2005		1					1					
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2005		1									1	
Upbound	Domestic	4	764	1603	200.0	35.0	7	9.0	1.5	5.5	170	2005		2			2							
Upbound	Domestic	4	909	1445	195.0	35.0	8	9.0	1.9	6.1	203	2005		1			1							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2005		3			3							
Upbound	Domestic	4	696	1500	195.1	35.0	8	9.0	1.6	6.4	149	2005		1			1							
Upbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2005		2			2							
Upbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2005		3							3			
Upbound	Domestic	4	764	1464	200.0	35.0	7	8.0	1.6	5.4	250	2005		1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	5	9.0	2.0	3.0	178	2005		0					0					
Upbound	Domestic	4	1013	1468	195.0	35.0	9	8.7	1.9	7.1	145	2005		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.4	6.6	16	2005		2			2							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2005	N	3			3							
Upbound	Domestic	4	696	1643	200.1	35.1	8	9.0	1.6	6.4	210	2005		3			3							
Upbound	Domestic	4	764	1641	200.0	35.0	7	9.0	1.4	5.6	225	2005		1			1							
Upbound	Domestic	5	001633	4744	300.0	54.0	9	9.0	2.0	7.0	189	2005		1					1					
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2005	N	1			1							
Upbound	Domestic	4	680	2000	200.0	35.0	10	11.0	1.5	8.5	208	2005		1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2005	N	1			1							
Upbound	Domestic	5	1614	3289	297.5	52.5	2	9.0	2.0	0.0	133	2005		1									1	
Upbound	Domestic	5	1707	3100	264.0	54.0	2	10.0	2.0	0.0	170	2005		1									1	
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2005		1									1	
Upbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2005		1					1					
Upbound	Domestic	4	950	1500	200.0	35.0	2	9.0	1.9	0.1	149	2005		2							2			
Upbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2005		6			6							
Upbound	Domestic	4	705	1578	200.0	35.0	4	9.0	1.5	2.5	180	2005		1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.5	6.5	200	2005		1			1							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2005		4			4							
Upbound	Domestic	4	696	2297	200.0	35.0	7	10.0	1.4	5.6	185	2005		1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2005		1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2005		3							3			
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2005		3			3							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2005		1			1							
Upbound	Domestic	5	716	1472	195.0	35.0	10	9.0	1.9	8.1	176	2005		0					0					
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2005		1			1							
Upbound	Domestic	4	741	2047	200.0	35.0	9	11.0	1.8	7.2	193	2005		1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2005	N	1			1							
Upbound	Domestic	5	1680	2900	256.5	54.0	2	8.5	2.0	0.0	100	2005		1									1	
Upbound	Domestic	4	764	2073	200.0	35.0	9	11.6	1.6	7.4	110	2005		3			3							
Upbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2005		2			2							
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2005		8			8							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2005		3			3							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2005		16			16							
Upbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2005		5			5							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2005		6			6							
Upbound	Domestic	4	000944	1455	195.0	35.0	9	10.0	1.5	7.5	180	2005		2			2							
Upbound	Domestic	4	616	1500	195.0	35.0	8	9.0	1.6	6.4	169	2005		1			1							
Upbound	Domestic	4	1046	1904	195.0	35.0	1	11.0	1.8	-0.8	191	2005		1							1			
Upbound	Domestic	4	705	1648	200.0	35.0	9	12.0	1.5	7.5	186	2005		1			1							
Upbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2005		2							2			
Upbound	Domestic	5	1754	4968	297.5	54.0	2	9.5	2.0	0.0	220	2005		2									2	
Upbound	Domestic	5	1326	2570	215.0	54.0	9	10.0	2.0	7.0	170	2005	N	1					1					
Upbound	Domestic	4	698	1536	195.0	35.0	8	9.0	1.5	6.5	196	2005		1			1							
Upbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2005		1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2005		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2005	N	1					1					
Upbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2005		2		2								
Upbound	Domestic	5	1754	4968	297.5	54.0	6	9.5	2.0	4.0	220	2005		2					2					
Upbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2005	N	1			1							
Upbound	Domestic	5	1641	3119	297.6	54.0	10	10.6	2.0	8.0	174	2005	N	1					1					
Upbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2005		5			5							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	165	2005		1			1							
Upbound	Domestic	5	001619	3526	300.0	54.0	9	10.0	2.3	6.7	189	2005		1					1					
Upbound	Domestic	4	1065	1670	200.0	35.0	8	9.0	1.4	6.6	160	2005		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2005		1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2005		1			1							
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2005		4		4								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2005		2									2	
Upbound	Domestic	4	933	1527	195.0	35.0	9	10.0	1.5	7.5	199	2005		2			2							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2005		1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2005		2			2							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2005		1			1							
Upbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2005		1			1							
Upbound	Domestic	4	981	1600	200.0	35.0	8	9.0	1.0	7.0	172	2005		1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	5	12.0	2.0	3.0	165	2005		1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2005		3			3							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2005		1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2005		2							2			
Upbound	Domestic	4	890	1501	195.0	35.0	10	9.0	1.7	8.3	200	2005		1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	6	10.0	2.0	4.0	110	2005		37			37							
Upbound	Domestic	4	000764	2190	200.0	35.0	4	12.0	2.0	2.0	160	2005		1							1			
Upbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2005		7			7							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	205	2005		1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2005		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	10	10.0	1.5	8.5	206	2005		1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2005		1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	7	12.0	1.5	5.5	190	2005		1			1							
Upbound	Domestic	3	204	999999	91.5	32.0	7	7.6	6.0	1.0	436	2005		2		2								
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2005		5									5	
Upbound	Domestic	3	235	999999	99.0	32.0	7	8.5	7.5	-0.5	406	2005		3		3								
Upbound	Domestic	4	960	1672	200.0	35.0	2	9.0	1.3	0.7	208	2005		1							1			
Upbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2005		1							1			
Upbound	Domestic	5	798	1477	195.0	35.0	2	9.0	2.0	0.0	173	2005		1									1	
Upbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2005		2							2			
Upbound	Domestic	5	788	1507	195.0	35.0	9	9.0	1.6	7.4	170	2005		1					1					
Upbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2005		1			1							
Upbound	Domestic	4	966	1670	200.0	35.0	8	9.0	1.5	6.5	160	2005		2			2							
Upbound	Domestic	4	705	1501	200.0	35.0	9	12.0	1.5	7.5	186	2005		5			5							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2005		2			2							
Upbound	Domestic	4	745	1495	195.0	35.0	7	9.0	1.7	5.3	225	2005		1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	120	2005		6					6					
Upbound	Domestic	4	000687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2005		1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2005		1			1							
Upbound	Domestic	5	2036	3600	297.5	54.0	2	9.0	2.0	0.0	175	2005		1									1	
Upbound	Domestic	4	206	414	61.5	31.2	8	9.0	2.0	6.0	125	2005		37			37							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2005	N	1			1							
Upbound	Domestic	4	823	2600	200.0	35.0	7	14.0	1.7	5.3	231	2005		1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2005		2			2							
Upbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2005		3			3							
Upbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2005		7			7							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2005		5			5							
Upbound	Domestic	4	823	1732	200.0	35.0	9	9.6	1.7	7.3	208	2005		2			2							
Upbound	Domestic	4	764	1527	200.0	35.0	7	9.0	1.8	5.2	205	2005		1			1							
Upbound	Domestic	4	676	1501	195.0	35.0	8	9.0	1.6	6.4	169	2005		1			1							
Upbound	Domestic	4	795	1665	200.0	35.0	9	9.0	1.4	7.6	147	2005		1			1							
Upbound	Domestic	4	975	1489	195.0	35.0	8	9.0	1.7	6.3	203	2005		1			1							
Upbound	Domestic	5	797	1783	147.0	52.5	2	9.0	2.0	0.0	180	2005		1									1	
Upbound	Domestic	3	199	999999	150.2	44.2	8	10.8	9.3	-1.3	430	2005		3		3								
Upbound	Domestic	4	764	1600	200.0	35.0	7	9.0	1.6	5.4	180	2005		1			1							
Upbound	Domestic	4	700	1506	195.0	35.0	7	9.0	1.6	5.4	180	2005		1			1							
Upbound	Domestic	4	957	1644	200.0	35.0	8	9.0	1.5	6.5	170	2005		1			1							
Upbound	Domestic	4	926	1633	200.0	35.0	9	9.0	1.6	7.4	180	2005		1			1							
Upbound	Domestic	4	986	1477	195.0	35.0	9	9.0	1.7	7.3	205	2005		2			2							
Upbound	Domestic	4	889	1464	195.1	35.2	9	9.0	1.8	7.2	155	2005		1			1							
Upbound	Domestic	4	885	1524	200.0	35.0	8	9.0	2.1	5.9	193	2005		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2005	N	1			1							
Upbound	Domestic	3	200	999999	95.0	30.0	7	8.5	7.0	0.0	300	2005		1		1								
Upbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2005		3		3								
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2005		3			3							
Upbound	Domestic	5	1371	2780	225.0	54.0	8	10.0	2.0	6.0	170	2005	N	1					1					
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2005		4			4							
Upbound	Domestic	4	888	1500	195.1	35.0	8	9.0	1.6	6.4	149	2005		3			3							
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2005		14			14							
Upbound	Domestic	4	685	1728	195.0	35.0	8	10.0	1.6	6.4	176	2005		2			2							
Upbound	Domestic	4	964	1677	200.0	35.0	8	9.0	1.5	6.5	150	2005		1			1							
Upbound	Domestic	4	764	1558	200.0	35.0	6	9.0	1.5	4.5	160	2005		1			1							
Upbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2005		1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2005		10			10							
Upbound	Domestic	5	759	1578	200.0	35.0	8	9.0	1.9	6.1	164	2005		2					2					
Upbound	Domestic	4	600	1650	200.0	35.0	7	9.0	1.5	5.5	208	2005		1			1							
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2005		1					1					
Upbound	Domestic	4	676	1511	195.0	35.0	8	9.0	1.6	6.4	192	2005		1			1							
Upbound	Domestic	4	000705	1619	200.0	35.0	9	9.0	1.6	7.4	205	2005	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2005		3			3							
Upbound	Domestic	4	747	1500	195.0	35.0	8	9.0	1.6	6.4	136	2005		2			2							
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2005		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	6	9.0	1.6	4.4	225	2005		1			1							
Upbound	Domestic	5	822	1400	195.0	35.0	8	9.0	1.3	6.7	178	2005		2					2					
Upbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2005	N	1			1							
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2005		34		34								
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2005		28		28								
Upbound	Domestic	4	833	1700	195.0	35.0	7	9.0	1.5	5.5	95	2005		1			1							
Upbound	Domestic	4	888	1529	195.0	35.0	9	9.0	1.5	7.5	160	2005		1			1							
Upbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2005		1			1							
Upbound	Domestic	5	886	1489	195.0	35.0	8	9.0	1.3	6.7	164	2005		1					1					
Upbound	Domestic	4	546	1900	200.0	35.0	8	9.0	2.0	6.0	190	2005		2			2							
Upbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2005		5			5							
Upbound	Domestic	4	705	9100	200.0	35.0	9	10.0	1.4	7.6	208	2005		1			1							
Upbound	Domestic	4	921	1700	195.0	35.0	9	10.0	1.9	7.1	193	2005		2			2							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2005		1					1					
Upbound	Domestic	5	2482	2208	294.0	50.0	2	9.0	2.0	0.0	300	2005		4									4	
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	2.0	7.0	191	2005		1			1							
Upbound	Domestic	4	823	2305	200.0	35.0	10	13.6	1.8	8.2	190	2005		1			1							
Upbound	Domestic	4	694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2005		2			2							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2005		5			5							
Upbound	Domestic	5	773	1489	195.0	35.0	9	9.0	1.3	7.7	165	2005		1					1					
Upbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2005		1			1							
Upbound	Domestic	4	676	1633	195.0	35.0	8	9.6	1.7	6.3	190	2005		1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	150	2005		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	2.0	6.0	16	2005		1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	6	9.0	1.5	4.5	225	2005		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	823	1662	200.0	35.0	6	9.0	1.4	4.6	235	2005		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	4	9.0	1.5	2.5	205	2005		1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2005		2			2							
Upbound	Domestic	4	922	2295	200.0	35.0	8	12.0	1.5	6.5	190	2005		1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.6	6.4	165	2005		1			1							
Upbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2005		4		4								
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2005		3			3							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.6	7.4	170	2005		2			2							
Upbound	Domestic	5	849	1660	200.0	35.0	10	9.0	1.6	8.4	170	2005		1					1					
Upbound	Domestic	5	773	1489	195.1	35.1	9	9.0	1.8	7.2	165	2005		1					1					
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2005		4			4							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2005		12			12							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2005		8			8							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2005		3			3							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2005		7			7							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2005		3			3							
Upbound	Domestic	4	700	2140	195.0	35.0	7	10.0	1.3	5.7	195	2005		1			1							
Upbound	Domestic	4	910	1574	195.0	35.0	9	9.0	1.6	7.4	206	2005		1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2005		1			1							
Upbound	Domestic	4	1046	1904	195.0	35.0	9	11.0	1.8	7.2	191	2005		2			2							
Upbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2005		2			2							
Upbound	Domestic	4	910	1489	195.0	35.0	9	9.0	1.7	7.3	203	2005		1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2005		1			1							
Upbound	Domestic	4	000680	943	200.0	35.0	2	10.0	1.6	0.4	180	2005		1							1			
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2005		2			2							
Upbound	Domestic	4	695	1544	195.0	35.0	8	9.0	1.4	6.6	146	2005		1			1							
Upbound	Domestic	4	000705	1647	200.0	35.0	9	9.0	1.5	7.5	205	2005		1			1							
Upbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2005		3			3							
Upbound	Domestic	4	1056	1659	200.0	35.0	8	9.0	1.3	6.7	185	2005		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2005		4			4							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2005		2			2							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	225	2005		3					3					
Upbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2005		1			1							
Upbound	Domestic	4	000687	1476	195.0	35.0	9	9.0	1.7	7.3	205	2005		2			2							
Upbound	Domestic	4	823	2733	200.0	35.0	8	12.0	1.5	6.5	241	2005		1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2005		1			1							
Upbound	Domestic	4	1072	1667	200.0	35.0	8	9.0	1.5	6.5	183	2005		1			1							
Upbound	Domestic	4	337	1490	195.0	35.0	2	9.0	1.8	0.2	175	2005	N	1							1			
Upbound	Domestic	4	745	1504	195.0	35.0	9	9.0	1.6	7.4	166	2005		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2005		9			9							
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2005		2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2005		6			6							
Upbound	Domestic	4	000705	1645	200.0	35.0	7	9.0	1.5	5.5	205	2005		2			2							
Upbound	Domestic	4	687	1724	195.0	35.0	7	10.0	1.5	5.5	206	2005		1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2005		3			3							
Upbound	Domestic	4	000682	943	195.0	35.0	8	10.0	1.6	6.4	180	2005		2			2							
Upbound	Domestic	4	700	1522	195.0	35.0	8	9.0	1.6	6.4	180	2005		1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2005		2							2			
Upbound	Domestic	4	1051	1586	200.1	35.1	9	8.7	1.5	7.5	171	2005		1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	5	10.0	1.5	3.5	194	2005		1			1							
Upbound	Domestic	4	745	1485	195.0	35.0	7	9.0	1.8	5.2	225	2005		1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	9	9.0	1.6	7.4	200	2005		1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2005	N	1			1							
Upbound	Domestic	5	1416	2500	256.5	54.0	2	9.0	1.5	0.5	90	2005		1									1	
Upbound	Domestic	3	189	999999	106.0	30.0	8	8.6	7.0	1.0	340	2005		1		1								
Upbound	Domestic	4	736	1654	200.0	35.0	2	9.0	1.5	0.5	185	2005		1							1			
Upbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2005		2			2							
Upbound	Domestic	4	705	1618	200.0	35.0	6	9.0	2.0	4.0	210	2005		1			1							
Upbound	Domestic	4	695	1520	195.0	35.0	8	9.0	1.6	6.4	146	2005		2			2							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2005		3			3							
Upbound	Domestic	4	1065	1644	200.0	35.0	8	9.0	1.5	6.5	190	2005		1			1							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2005		8			8							
Upbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2005		11			11							
Upbound	Domestic	4	1072	2318	200.0	35.0	7	10.0	1.3	5.7	196	2005		1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	180	2005		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2005		1			1							
Upbound	Domestic	4	764	2500	200.0	35.0	6	9.0	1.6	4.4	225	2005		1			1							
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2005	N	1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2005		25		25								
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2005		12		12								
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2005	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2005		1			1							
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2005		14			14							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2005		8			8							
Upbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2005		7			7							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2005		1			1							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2005		3			3							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2005		1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2005		1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2005		5			5							
Upbound	Domestic	4	907	1733	195.0	35.0	9	10.0	1.6	7.4	200	2005		1			1							
Upbound	Domestic	5	890	1590	200.0	35.0	7	9.0	1.9	5.1	142	2005		1					1					
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.1	6.9	142	2005		1					1					
Upbound	Domestic	4	933	1527	195.0	35.0	9	12.0	1.5	7.5	199	2005		3			3							
Upbound	Domestic	4	706	1563	200.0	35.0	7	9.0	1.7	5.3	205	2005		1			1							
Upbound	Domestic	5	855	1800	195.0	35.0	9	11.0	2.0	7.0	170	2005		1					1					
Upbound	Domestic	4	687	1626	195.0	35.0	7	9.0	1.4	5.6	146	2005		1			1							
Upbound	Domestic	4	688	1495	195.0	35.0	9	9.0	1.9	7.1	169	2005		2			2							
Upbound	Domestic	5	2356	7068	293.0	50.0	2	8.5	2.7	-0.7	320	2005		2									2	
Upbound	Domestic	3	196	999999	81.5	30.0	7	9.6	6.5	0.5	350	2005		3		3								
Upbound	Domestic	5	773	1350	195.0	35.0	9	9.0	2.0	7.0	166	2005		1					1					
Upbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	120	2005		1			1							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2005		1			1							
Upbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2005		5			5							
Upbound	Domestic	4	800	1699	195.0	35.0	8	10.0	1.8	6.2	164	2005		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	6	9.0	1.8	4.2	225	2005		4			4							
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2005		5			5							
Upbound	Domestic	4	000705	1699	200.0	35.0	7	9.0	1.2	5.8	145	2005		1			1							
Upbound	Domestic	5	805	1433	195.0	35.0	7	9.0	1.1	5.9	166	2005		1					1					
Upbound	Domestic	4	706	1563	200.0	35.0	5	9.0	1.7	3.3	205	2005		1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2005		1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	7	9.0	1.8	5.2	225	2005	N	1			1							
Upbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2005		3									3	
Upbound	Domestic	3	244	999999	120.0	35.0	7	7.5	7.0	0.0	160	2005		3		3								
Upbound	Domestic	5	2482	2203	294.0	50.0	2	9.0	2.0	0.0	300	2005		4									4	
Upbound	Domestic	5	2239	3446	297.5	54.0	2	9.0	2.0	0.0	250	2005		1									1	
Upbound	Domestic	4	910	2096	195.0	35.0	2	12.0	1.8	0.2	240	2005		1							1			
Upbound	Domestic	4	745	1714	195.0	35.0	11	9.0	1.6	9.4	210	2005		1			1							
Upbound	Domestic	4	1056	1675	200.0	35.0	7	9.0	1.6	5.4	160	2005		1			1							
Upbound	Domestic	4	764	2073	200.0	35.0	10	11.6	1.6	8.4	110	2005		1			1							
Upbound	Domestic	5	835	1662	195.0	35.0	8	10.0	1.9	6.1	149	2005		3					3					
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	180	2005		1			1							
Upbound	Domestic	4	676	1706	195.0	35.0	9	10.0	1.7	7.3	160	2005		1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2005		2			2							
Upbound	Domestic	4	000705	1692	200.0	35.0	2	9.0	1.2	0.8	145	2005		2							2			
Upbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2005		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2005		5			5							
Upbound	Domestic	4	889	1464	195.1	35.2	9	9.0	1.8	7.2	194	2005		2			2							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2005		1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	6	9.0	1.8	4.2	205	2005		2			2							
Upbound	Domestic	5	1463	3800	290.1	54.1	9	9.3	2.0	7.0	100	2005		1					1					
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2005		24		24								
Upbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2005		2			2							
Upbound	Domestic	4	823	1843	200.0	35.0	9	13.0	1.6	7.4	230	2005		1			1							
Upbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	210	2005		1			1							
Upbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2005		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2005		12			12							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	145	2005		1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	240	2005		2			2							
Upbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2005		2			2							
Upbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2005		2			2							
Upbound	Domestic	4	941	1859	200.0	35.0	8	10.0	1.6	6.4	160	2005		2			2							
Upbound	Domestic	4	843	1743	195.0	35.0	10	10.0	1.6	8.4	145	2005		1			1							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	189	2005		2			2							
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2005		3			3							
Upbound	Domestic	4	000745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2005		1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2005		6			6							
Upbound	Domestic	4	910	1489	195.0	35.0	9	9.0	1.7	7.3	145	2005		1			1							
Upbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2005		2			2							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2005		5					5					
Upbound	Domestic	5	891	1580	200.0	35.0	8	9.0	1.9	6.1	142	2005		2					2					
Upbound	Domestic	4	705	1617	200.0	35.0	9	9.0	1.6	7.4	205	2005		1			1							
Upbound	Domestic	4	676	1498	195.0	35.0	8	9.0	1.7	6.3	160	2005		2			2							
Upbound	Domestic	5	1692	3121	290.0	52.5	2	9.0	2.0	0.0	180	2005		1									1	
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2005		2									2	
Upbound	Domestic	4	833	1524	195.0	35.0	9	9.0	1.6	7.4	185	2005		3			3							
Upbound	Domestic	4	196	375	61.6	31.2	9	9.0	1.8	7.2	125	2005		5			5							
Upbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2005		1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2005		8			8							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2005		10			10							
Upbound	Domestic	4	676	1500	195.0	35.0	9	9.0	2.0	7.0	162	2005		2			2							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.5	6.5	160	2005		1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2005		5			5							
Upbound	Domestic	4	711	1732	195.0	35.0	9	10.0	1.6	7.4	192	2005		1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2005		3			3							
Upbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2005		1			1							
Upbound	Domestic	4	000687	1611	195.0	35.0	8	9.0	1.2	6.8	145	2005		1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2005		1			1							
Upbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2005		3		3								
Upbound	Domestic	3	130	999999	74.0	30.0	11	11.0	11.0	0.0	400	2005		1		1								
Upbound	Domestic	5	2111	4400	290.0	54.0	2	9.3	2.0	0.0	200	2005		1									1	
Upbound	Domestic	3	104	999999	72.0	27.0	7	8.0	7.0	0.0	390	2005		3		3								
Upbound	Domestic	3	163	999999	95.5	34.1	11	8.0	8.0	3.0	220	2005		1		1								
Upbound	Domestic	4	888	1475	195.0	35.0	9	9.0	1.6	7.4	206	2005		5			5							
Upbound	Domestic	5	884	1528	195.0	35.0	9	9.0	1.6	7.4	170	2005		1					1					
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2005		3			3							
Upbound	Domestic	4	705	1554	200.0	35.0	6	9.0	1.5	4.5	150	2005		2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2005		1			1							
Upbound	Domestic	4	848	1525	195.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	000764	2202	200.0	35.0	9	13.0	2.0	7.0	208	2005		1			1							
Upbound	Domestic	4	705	1767	200.0	35.0	8	9.0	1.1	6.9	146	2005		1			1							
Upbound	Domestic	4	1099	1661	200.0	35.0	8	9.0	1.5	6.5	190	2005		1			1							
Upbound	Domestic	4	196	412	61.6	31.2	8	8.6	1.6	6.4	130	2005		1			1							
Upbound	Domestic	3	131	999999	75.0	27.2	7	9.6	8.0	-1.0	315	2005		1		1								
Upbound	Domestic	5	2200	2720	270.0	53.0	2	8.5	2.0	0.0	300	2005		5									5	
Upbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2005		1			1							
Upbound	Domestic	4	910	1574	195.0	35.0	8	9.0	1.6	6.4	206	2005		1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.6	6.4	206	2005		4			4							
Upbound	Domestic	4	927	1549	200.0	35.0	6	9.0	1.5	4.5	120	2005		1			1							
Upbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2005		2			2							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2005		1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2005		1			1							
Upbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2005		5			5							
Upbound	Domestic	4	681	1500	195.0	35.0	8	9.0	1.6	6.4	190	2005		2			2							
Upbound	Domestic	4	700	1487	195.0	35.0	8	9.0	1.0	7.0	180	2005		1			1							
Upbound	Domestic	4	696	1600	200.0	35.0	8	9.0	1.5	6.5	190	2005		1			1							
Upbound	Domestic	4	000685	1480	195.0	35.0	7	10.0	1.5	5.5	180	2005		1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2005		17		17								
Upbound	Domestic	3	204	999999	156.0	38.0	7	6.5	6.5	0.5	363	2005		1		1								
Upbound	Domestic	5	1754	4292	297.5	54.0	9	11.0	2.0	7.0	200	2005		1					1					
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2005		1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2005		1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	4	9.0	1.6	2.4	155	2005		2			2							
Upbound	Domestic	4	848	1522	195.0	35.0	8	9.0	1.6	6.4	192	2005		1			1							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2005		2			2							
Upbound	Domestic	4	736	1638	200.0	35.0	8	9.0	1.6	6.4	176	2005		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	7	10.0	1.5	5.5	206	2005		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2005		2			2							
Upbound	Domestic	4	823	2319	200.0	35.0	9	12.0	1.3	7.7	227	2005		1			1							
Upbound	Domestic	5	1619	4337	297.0	54.0	9	12.0	2.0	7.0	240	2005		2					2					
Upbound	Domestic	4	1039	1623	200.0	35.0	8	9.0	1.7	6.3	146	2005		1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	7	9.0	1.8	5.2	205	2005		1			1							
Upbound	Domestic	3	178	999999	105.0	30.0	7	8.0	7.0	0.0	410	2005		1		1								
Upbound	Domestic	4	966	1659	200.0	35.0	2	9.0	1.5	0.5	165	2005		1							1			
Upbound	Domestic	4	700	1526	195.0	35.0	2	9.0	1.6	0.4	160	2005		1							1			
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2005		1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	7	11.0	1.5	5.5	149	2005		2			2							
Upbound	Domestic	5	894	1591	200.0	35.0	7	9.0	1.9	5.1	142	2005		1					1					
Upbound	Domestic	4	700	1487	195.0	35.0	10	11.0	1.7	8.3	180	2005		1			1							
Upbound	Domestic	5	1306	3740	300.0	54.0	9	9.0	2.0	7.0	190	2005		2					2					
Upbound	Domestic	4	917	1587	200.1	35.1	9	9.0	1.5	7.5	161	2005		2			2							
Upbound	Domestic	4	865	1478	195.1	35.1	8	9.0	1.8	6.2	130	2005		1			1							
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2005		2			2							
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2005		1			1							
Upbound	Domestic	4	000764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2005		2			2							
Upbound	Domestic	4	601	1400	195.0	35.0	7	10.0	2.0	5.0	110	2005		14			14							
Upbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2005		1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2005	N	1			1							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2005		2		2								
Upbound	Domestic	4	908	1654	200.0	35.0	2	9.0	1.4	0.6	204	2005		1							1			
Upbound	Domestic	4	823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2005	N	2			2							
Upbound	Domestic	5	835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2005		3					3					
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	120	2005		1			1							
Upbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2005		3			3							
Upbound	Domestic	4	735	1500	200.1	35.0	8	9.0	1.6	6.4	149	2005		1			1							
Upbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	119	2005		1			1							
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2005		6			6							
Upbound	Domestic	4	883	1602	195.0	35.0	11	12.0	1.7	9.3	191	2005		1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	7	9.0	1.4	5.6	120	2005		1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.6	7.4	225	2005		1			1							
Upbound	Domestic	4	000706	1557	200.0	35.0	8	9.0	1.6	6.4	205	2005		1			1							
Upbound	Domestic	4	705	1727	200.0	35.0	7	9.0	1.1	5.9	146	2005	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2005		1			1							
Upbound	Domestic	4	687	1522	195.0	35.0	8	9.0	1.6	6.4	165	2005		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2005	N	1			1							
Upbound	Domestic	4	950	1693	200.0	35.0	8	9.0	1.2	6.8	146	2005		1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2005		2			2							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2005		1					1					
Upbound	Domestic	5	002424	2213	295.0	50.0	2	9.0	2.5	-0.5	280	2005		3									3	
Upbound	Domestic	4	960	1635	200.0	35.0	2	9.0	1.6	0.4	177	2005		2							2			
Upbound	Domestic	5	001754	4211	297.5	54.0	7	11.0	2.0	5.0	200	2005		4					4					
Upbound	Domestic	5	785	1488	195.0	35.0	9	9.0	2.5	6.5	140	2005		1					1					
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2005		4			4							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2005		3			3							
Upbound	Domestic	4	910	1649	200.0	35.0	8	9.0	1.6	6.4	190	2005		1			1							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	187	2005		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2005		2			2							
Upbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.5	6.5	170	2005		1			1							
Upbound	Domestic	4	823	2298	200.0	35.0	6	12.0	1.4	4.6	225	2005		1			1							
Upbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2005		1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	2	9.0	1.4	0.6	148	2005		1							1			
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2005		4			4							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2005		1			1							
Upbound	Domestic	4	931	2311	200.0	35.0	7	10.0	1.4	5.6	186	2005		1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2005		12			12							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2005		9			9							
Upbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2005		2							2			
Upbound	Domestic	4	952	1450	195.0	35.0	8	9.0	1.6	6.4	190	2005		2			2							
Upbound	Domestic	4	676	1500	195.0	35.0	8	9.0	2.0	6.0	162	2005		4			4							
Upbound	Domestic	4	676	1515	195.0	35.0	8	9.0	1.5	6.5	150	2005		1			1							
Upbound	Domestic	4	823	1751	200.0	35.0	9	10.0	1.7	7.3	190	2005		1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	9	11.0	1.5	7.5	200	2005		2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2005		3			3							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.6	7.4	190	2005		1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2005		3			3							
Upbound	Domestic	5	1619	4337	297.0	54.0	8	12.0	2.0	6.0	240	2005		2					2					
Upbound	Domestic	4	687	1629	195.0	35.0	7	9.0	1.4	5.6	160	2005		1			1							
Upbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2005		3			3							
Upbound	Domestic	4	000706	1569	200.0	35.0	6	9.0	1.6	4.4	205	2005		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2005	N	1			1							
Upbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2005		1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	160	2005	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2005		3					3					
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2005		5			5							
Upbound	Domestic	4	823	2078	200.0	35.0	8	11.0	1.6	6.4	250	2005		3			3							
Upbound	Domestic	4	764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2005		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2005		23			23							
Upbound	Domestic	4	000944	1455	195.0	35.0	8	10.0	1.5	6.5	180	2005		5			5							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2005		2			2							
Upbound	Domestic	4	000802	2300	200.0	35.0	8	12.0	1.6	6.4	195	2005		1			1							
Upbound	Domestic	4	799	1887	200.0	35.0	8	10.0	1.5	6.5	149	2005		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2005		5			5							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2005		1			1							
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2005		1			1							
Upbound	Domestic	5	001633	3860	300.0	54.0	9	10.0	2.0	7.0	189	2005		1					1					
Upbound	Domestic	4	705	1618	200.0	35.0	8	9.0	2.0	6.0	210	2005		1			1							
Upbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2005		2		2								
Upbound	Domestic	4	888	1529	195.0	35.0	8	9.0	1.5	6.5	160	2005		8			8							
Upbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2005		5			5							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2005		5			5							
Upbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2005		2			2							
Upbound	Domestic	5	000835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2005		2					2					
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2005		2			2							
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2005		2									2	
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2005		22					22					
Upbound	Domestic	5	798	1477	195.0	35.0	9	9.0	2.0	7.0	173	2005		1					1					
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2005		1			1							
Upbound	Domestic	5	894	1591	200.0	35.0	8	9.0	1.9	6.1	142	2005		6					6					
Upbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2005		4							4			
Upbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2005		1			1							
Upbound	Domestic	4	723	1875	200.0	35.0	8	10.0	1.7	6.3	163	2005		1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2005		4			4							
Upbound	Domestic	4	701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2005		1			1							
Upbound	Domestic	5	818	1638	195.0	35.0	9	10.0	1.8	7.2	160	2005		1					1					
Upbound	Domestic	4	687	1577	195.0	35.0	6	9.0	1.8	4.2	169	2005		1			1							
Upbound	Domestic	4	700	1741	195.0	35.0	7	10.0	1.6	5.4	130	2005		2			2							
Upbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2005		1			1							
Upbound	Domestic	5	2700	2500	281.0	50.0	3	9.0	2.5	0.5	230	2005		1									1	
Upbound	Domestic	3	000219	322	120.0	35.0	8	10.0	8.0	0.0	290	2005		2		2								
Upbound	Domestic	5	001633	4327	300.0	54.0	2	10.0	2.0	0.0	189	2005		1									1	
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2005		3			3							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2005		1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2005		9			9							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2005		1			1							
Upbound	Domestic	4	902	1643	200.0	35.0	8	9.6	1.5	6.5	194	2005		1			1							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.5	6.5	189	2005		2			2							
Upbound	Domestic	4	687	1600	195.0	35.0	8	9.0	2.0	6.0	126	2005		1			1							
Upbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2005		2			2							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2005		2			2							
Upbound	Domestic	4	771	1541	200.0	35.0	6	9.0	1.6	4.4	212	2005		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2005		1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2005		1							1			
Upbound	Domestic	4	687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2005		1			1							
Upbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.1	6.9	194	2005		6			6							
Upbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2005		2			2							
Upbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2005		3			3							
Upbound	Domestic	4	706	1575	200.0	35.0	6	9.0	1.6	4.4	205	2005		2			2							
Upbound	Domestic	4	687	1571	195.0	35.0	8	9.0	1.4	6.6	145	2005		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2005		1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2005		1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	7	9.0	2.0	5.0	140	2005		1			1							
Upbound	Domestic	4	687	1501	195.0	35.0	9	12.0	1.5	7.5	186	2005		1			1							
Upbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2005	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	192	2005		11			11							
Upbound	Domestic	4	687	1722	195.0	35.0	9	10.0	1.6	7.4	205	2005		6			6							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2005		1			1							
Upbound	Domestic	4	687	1515	195.0	35.0	8	9.0	1.5	6.5	187	2005		1			1							
Upbound	Domestic	4	823	1641	200.0	35.0	12	12.0	1.4	10.6	200	2005		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	204	2005		1							1			
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2005		15			15							
Upbound	Domestic	4	764	1658	200.0	35.0	7	9.0	1.5	5.5	225	2005		1			1							
Upbound	Domestic	4	676	1492	195.0	35.0	8	9.0	1.8	6.2	162	2005		1			1							
Upbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2005		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.6	8.4	165	2005		1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2005		1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2005		28		28								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	2328	2720	298.0	53.0	3	8.5	3.0	0.0	312	2005		3									3	
Upbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2005		1							1			
Upbound	Domestic	5	1789	3280	295.1	54.0	9	10.0	2.0	7.0	170	2005	N	1					1					
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2005		6			6							
Upbound	Domestic	4	696	1648	200.0	35.0	8	9.0	1.5	6.5	169	2005		1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2005		6			6							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2005		3			3							
Upbound	Domestic	4	206	414	61.6	31.2	8	8.6	2.0	6.0	125	2005		4			4							
Upbound	Domestic	5	001633	4744	300.0	54.0	9	11.6	2.3	6.7	189	2005		1					1					
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2005		2			2							
Upbound	Domestic	4	680	2000	200.0	35.0	9	11.0	1.5	7.5	208	2005		1			1							
Upbound	Domestic	4	706	1614	200.0	35.0	7	9.0	1.2	5.8	145	2005	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	186	2005		1			1							
Upbound	Domestic	5	716	1472	195.0	35.0	2	9.0	1.9	0.1	176	2005		1									1	
Upbound	Domestic	4	1056	1675	200.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	5	9.0	1.8	3.2	205	2005		1			1							
Upbound	Domestic	4	735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2005		2			2							
Upbound	Domestic	4	770	1889	200.0	35.0	7	10.0	1.5	5.5	149	2005		2			2							
Upbound	Domestic	4	764	1637	200.0	35.0	6	9.0	1.5	4.5	155	2005		1			1							
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2005		1			1							
Upbound	Domestic	4	783	1902	195.0	35.0	9	11.0	1.9	7.1	199	2005		3			3							
Upbound	Domestic	4	705	1687	200.0	35.0	8	9.0	1.3	6.7	146	2005		1			1							
Upbound	Domestic	4	764	1639	200.0	35.0	6	9.0	1.6	4.4	225	2005		1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	7	9.0	1.4	5.6	235	2005		1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	7	9.0	1.6	5.4	205	2005		1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	146	2005		1			1							
Upbound	Domestic	4	1006	1902	195.0	35.0	9	11.0	1.9	7.1	199	2005		1			1							
Upbound	Domestic	4	823	2280	200.0	35.0	9	12.0	1.4	7.6	223	2005		1			1							
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2005		8		8								
Upbound	Domestic	3	203	999999	100.0	30.0	9	9.0	9.0	0.0	450	2005		2		2								
Upbound	Domestic	5	839	1800	137.0	54.0	2	9.0	1.6	0.4	90	2005		1									1	
Upbound	Domestic	3	000334	491	140.0	38.0	9	9.6	8.6	0.4	430	2005		1		1								
Upbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2005		1		1								
Upbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2005		2							2			
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2005		2			2							
Upbound	Domestic	4	888	1500	195.0	35.0	8	12.0	2.0	6.0	149	2005		1			1							
Upbound	Domestic	4	745	1714	195.0	35.0	7	9.0	1.6	5.4	210	2005		1			1							
Upbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.0	7.0	180	2005		4			4							
Upbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2005		3							3			
Upbound	Domestic	4	696	1891	200.0	35.0	8	10.0	1.4	6.6	191	2005		1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	1	9.0	1.4	-0.4	208	2005		1							1			
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2005		4					4					
Upbound	Domestic	4	705	1650	200.0	35.0	6	9.0	1.5	4.5	208	2005		1			1							
Upbound	Domestic	5	730	1409	195.0	35.0	8	8.6	2.0	6.0	190	2005		1					1					
Upbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2005	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2005		1		1								
Upbound	Domestic	3	333	999999	149.0	33.0	8	8.0	8.0	0.0	170	2005	N	1		1								
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.6	6.4	170	2005	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2005		4			4							
Upbound	Domestic	4	687	1534	195.0	35.0	7	9.0	1.5	5.5	145	2005		2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2005		4			4							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2005		2			2							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2005		12			12							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	190	2005		1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2005		2			2							
Upbound	Domestic	4	942	1902	195.0	35.0	9	11.0	1.8	7.2	180	2005		1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2005		3			3							
Upbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2005		4							4			
Upbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2005		1			1							
Upbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2005		2			2							
Upbound	Domestic	4	700	1487	195.0	35.0	11	11.0	1.7	9.3	180	2005		1			1							
Upbound	Domestic	4	706	1664	200.0	35.0	8	9.0	1.4	6.6	145	2005		1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2005	N	1			1							
Upbound	Domestic	4	933	1666	200.0	35.0	9	9.0	1.4	7.6	185	2005		2			2							
Upbound	Domestic	3	232	999999	110.0	32.0	8	8.6	7.5	0.5	350	2005		10		10								
Upbound	Domestic	5	860	1600	195.0	35.0	2	10.0	1.9	0.1	165	2005		1									1	
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2005		19			19							
Upbound	Domestic	4	764	1521	200.0	35.0	7	9.0	1.9	5.1	225	2005		2			2							
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2005		1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2005		1			1							
Upbound	Domestic	4	1072	1870	200.0	35.0	9	10.0	1.5	7.5	169	2005		1			1							
Upbound	Domestic	4	823	2410	200.0	35.0	9	14.0	1.5	7.5	190	2005		1			1							
Upbound	Domestic	4	764	2200	200.0	35.0	5	8.0	2.0	3.0	9999	2005		1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	5	9.0	1.5	3.5	150	2005		0			0							
Upbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2005		1							1			
Upbound	Domestic	4	000764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2005		1			1							
Upbound	Domestic	4	000687	1531	195.0	35.0	8	9.0	1.6	6.4	145	2005		1			1							
Upbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.6	6.4	180	2005		5			5							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	180	2005		3			3							
Upbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2005		1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	7	12.0	2.0	5.0	165	2005		1			1							
Upbound	Domestic	4	470	1200	160.0	35.0	6	8.5	1.5	4.5	100	2005		7			7							
Upbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2005		2			2							
Upbound	Domestic	4	1009	1636	195.0	35.0	7	9.0	1.6	5.4	193	2005		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	10	10.0	1.4	8.6	205	2005		2			2							
Upbound	Domestic	5	2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2005		2									2	
Upbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2005		17		17								
Upbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2005		1			1							
Upbound	Domestic	4	743	1640	200.0	35.0	8	9.0	2.0	6.0	165	2005		2			2							
Upbound	Domestic	4	601	1626	195.0	35.0	6	9.0	1.4	4.6	146	2005		1			1							
Upbound	Domestic	4	823	2743	200.0	35.0	8	14.0	1.5	6.5	241	2005		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2005		2			2							
Upbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2005		2			2							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2005		11			11							
Upbound	Domestic	4	696	1873	200.0	35.0	9	9.0	1.5	7.5	169	2005		1			1							
Upbound	Domestic	4	931	1655	200.0	35.0	8	9.0	1.5	6.5	190	2005		3			3							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2005		1			1							
Upbound	Domestic	4	543	1507	195.0	35.0	8	9.0	1.6	6.4	183	2005		1			1							
Upbound	Domestic	4	687	1510	195.0	35.0	8	9.0	1.6	6.4	119	2005		1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2005		2			2							
Upbound	Domestic	4	745	1495	195.0	35.0	5	9.0	1.7	3.3	225	2005		1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2005	N	1			1							
Upbound	Domestic	4	917	1659	200.0	35.0	8	9.0	1.5	6.5	180	2005		1			1							
Upbound	Domestic	4	687	1531	195.0	35.0	7	9.0	1.6	5.4	145	2005		1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2005		1			1							
Upbound	Domestic	4	000944	1455	200.0	35.0	2	10.0	1.6	0.4	180	2005		1							1			
Upbound	Domestic	4	196	375	61.6	31.2	9	9.0	2.0	7.0	125	2005		4			4							
Upbound	Domestic	4	684	1526	195.0	35.0	8	9.0	1.6	6.4	160	2005		1			1							
Upbound	Domestic	4	867	1464	195.1	35.0	8	9.0	1.9	6.1	129	2005		1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2005		1			1							
Upbound	Domestic	4	687	1491	195.0	35.0	9	9.0	1.8	7.2	170	2005		1			1							
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.9	6.1	142	2005		1					1					
Upbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2005		1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2005		6			6							
Upbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2005		6			6							
Upbound	Domestic	4	882	1518	195.0	35.0	8	9.0	1.6	6.4	180	2005		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	748	900	195.0	35.0	9	9.0	2.0	7.0	176	2005		2					2					
Upbound	Domestic	5	773	1500	195.0	35.0	7	9.0	2.0	5.0	186	2005		1					1					
Upbound	Domestic	5	1754	4240	297.5	54.0	9	11.0	1.5	7.5	200	2005		2					2					
Upbound	Domestic	5	740	1578	200.0	35.0	8	9.0	1.9	6.1	183	2005		2					2					
Upbound	Domestic	4	700	1520	195.0	35.0	8	9.0	1.6	6.4	190	2005		1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.6	6.4	155	2005		2			2							
Upbound	Domestic	4	000764	1648	200.0	35.0	8	13.0	2.0	6.0	208	2005		1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2005		1			1							
Upbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2005		6									6	
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2005		4									4	
Upbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2005		1							1			
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2005		5			5							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2005		2			2							
Upbound	Domestic	5	633	1300	195.0	35.0	9	8.6	2.0	7.0	166	2005		1					1					
Upbound	Domestic	4	764	1603	200.0	35.0	8	9.0	1.5	6.5	170	2005		1			1							
Upbound	Domestic	4	764	1617	200.0	35.0	8	9.0	1.4	6.6	160	2005		1			1							
Upbound	Domestic	4	823	2403	200.0	35.0	9	12.6	1.7	7.3	190	2005		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2005		1			1							
Upbound	Domestic	4	711	1732	195.0	35.0	5	10.0	1.6	3.4	192	2005		1			1							
Upbound	Domestic	4	726	1646	200.0	35.0	8	9.0	1.5	6.5	191	2005		1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2005		1					1					
Upbound	Domestic	4	952	1450	195.0	35.0	8	9.0	2.0	6.0	165	2005		1			1							
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2005	N	1			1							
Upbound	Domestic	4	922	1842	200.0	35.0	8	10.0	1.8	6.2	210	2005		1			1							
Upbound	Domestic	4	730	1664	200.0	35.0	8	9.0	1.4	6.6	148	2005		1			1							
Upbound	Domestic	5	716	1450	195.0	35.0	7	8.5	2.7	4.3	145	2005		1					1					
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2005		2			2							
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2005		1				1						
Downbound	Domestic	4	764	1552	200.0	35.0	9	9.0	1.5	7.5	163	2005		2				2						
Downbound	Domestic	4	823	1652	200.0	35.0	9	9.0	1.4	7.6	235	2005		1				1						
Downbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2005		3				3						
Downbound	Domestic	4	000680	943	200.0	35.0	8	10.0	1.6	6.4	180	2005		4				4						
Downbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2005		1				1						
Downbound	Domestic	4	1664	2010	200.0	35.0	8	10.6	1.3	6.7	220	2005		1				1						
Downbound	Domestic	4	706	1627	200.0	35.0	8	9.0	1.3	6.7	155	2005		1				1						
Downbound	Domestic	3	99	999999	85.0	30.0	8	10.5	8.0	0.0	420	2005		4		4								
Downbound	Domestic	4	1065	1659	200.0	35.0	2	9.0	1.5	0.5	185	2005		3								3		
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2005		3										3
Downbound	Domestic	4	695	1520	195.0	35.0	2	9.0	1.6	0.4	146	2005		1								1		
Downbound	Domestic	5	773	1500	195.0	35.0	2	9.0	2.0	0.0	186	2005		1										1
Downbound	Domestic	5	822	1400	195.0	35.0	2	9.0	1.3	0.7	178	2005		1										1
Downbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2005	N	1				1						
Downbound	Domestic	4	743	1651	200.0	35.0	7	9.0	1.6	5.4	180	2005		1				1						
Downbound	Domestic	5	1698	3570	290.0	52.0	9	9.6	1.5	7.5	120	2005		1						1				
Downbound	Domestic	4	000886	1400	195.0	35.0	9	9.0	2.0	7.0	170	2005		1				1						
Downbound	Domestic	4	823	2078	200.0	35.0	9	11.0	1.6	7.4	250	2005		1				1						
Downbound	Domestic	4	700	1506	195.0	35.0	8	9.0	1.6	6.4	180	2005	N	1				1						
Downbound	Domestic	4	1065	1716	200.0	35.0	9	9.0	1.1	7.9	145	2005		1				1						
Downbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2005		1				1						
Downbound	Domestic	5	741	1481	195.0	35.0	10	10.0	2.0	8.0	170	2005		1						1				
Downbound	Domestic	4	736	1654	200.0	35.0	8	9.0	1.5	6.5	185	2005		1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	2	9.0	1.8	0.2	240	2005		1								1		
Downbound	Domestic	4	685	1728	195.0	35.0	2	10.0	1.6	0.4	176	2005		1								1		
Downbound	Domestic	4	705	1774	200.0	35.0	2	10.0	1.6	0.4	170	2005		4								4		
Downbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.6	0.4	211	2005		1								1		
Downbound	Domestic	5	740	1578	200.0	35.0	2	9.0	1.9	0.1	183	2005		1										1
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2005		1				1						
Downbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2005		2				2						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2005		2				2						
Downbound	Domestic	4	700	1506	195.0	35.0	9	9.0	1.6	7.4	180	2005		1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	160	2005	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.6	0.4	170	2005	N	1								1		
Downbound	Domestic	4	705	2300	200.0	35.0	2	9.0	1.4	0.6	160	2005		8								8		
Downbound	Domestic	5	1680	2900	256.5	54.0	9	8.5	2.0	7.0	100	2005		1						1				
Downbound	Domestic	5	1692	3121	290.0	52.5	9	9.0	2.0	7.0	180	2005		1						1				
Downbound	Domestic	4	823	2304	200.0	35.0	12	12.0	1.5	10.5	190	2005		1				1						
Downbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2005		2				2						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	185	2005		1				1						
Downbound	Domestic	4	1065	1716	200.0	35.0	8	9.0	1.1	6.9	145	2005		1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2005		1				1						
Downbound	Domestic	4	000900	1477	195.0	35.0	8	9.0	1.5	6.5	205	2005		1				1						
Downbound	Domestic	5	780	1450	200.0	35.0	2	9.8	1.8	0.2	160	2005		1										1
Downbound	Domestic	5	730	1409	195.0	35.0	9	8.6	2.0	7.0	190	2005		1						1				
Downbound	Domestic	5	1593	3240	298.0	54.0	12	12.0	1.8	10.2	185	2005		1						1				
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2005		1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	1	10.0	1.6	-0.6	192	2005		2								2		
Downbound	Domestic	4	823	1640	200.0	35.0	7	9.0	1.5	5.5	220	2005		2				2						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.6	7.4	207	2005		1				1						
Downbound	Domestic	4	917	1659	200.0	35.0	8	9.0	1.5	6.5	169	2005		1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2005		2				2						
Downbound	Domestic	4	000685	1455	195.0	35.0	9	10.0	1.8	7.2	180	2005		1				1						
Downbound	Domestic	4	705	1609	200.0	35.0	2	9.0	1.7	0.3	175	2005	N	1								1		
Downbound	Domestic	5	1632	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2005		1										1
Downbound	Domestic	4	705	1727	200.0	35.0	2	9.0	1.1	0.9	146	2005		1								1		
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2005		2								2		
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2005		1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2005		5				5						
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2005		2				2						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2005		17				17						
Downbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.6	6.4	162	2005		1				1						
Downbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	4	741	2047	200.0	35.0	1	11.0	1.8	-0.8	193	2005		2								2		
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2005		1				1						
Downbound	Domestic	4	696	1500	195.1	35.0	2	9.0	1.6	0.4	149	2005		1								1		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2005		2								2		
Downbound	Domestic	4	800	1699	195.0	35.0	1	10.0	1.8	-0.8	164	2005		1								1		
Downbound	Domestic	4	764	2073	200.0	35.0	2	11.6	1.6	0.4	110	2005		1								1		
Downbound	Domestic	4	616	1500	195.0	35.0	2	9.0	1.6	0.4	169	2005		1								1		
Downbound	Domestic	5	001633	4744	300.0	54.0	2	9.0	2.0	0.0	189	2005		1										1
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2005		3				3						
Downbound	Domestic	4	888	1479	195.0	35.0	9	9.0	1.6	7.4	180	2005		1				1						
Downbound	Domestic	4	000944	1455	200.0	35.0	9	10.0	1.6	7.4	180	2005		2				2						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2005		2				2						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2005		3				3						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2005		1				1						
Downbound	Domestic	5	1514	3200	300.0	50.0	8	8.6	1.5	6.5	182	2005		1						1				
Downbound	Domestic	4	706	1587	200.0	35.0	9	9.0	1.5	7.5	155	2005		1				1						
Downbound	Domestic	4	745	1458	195.0	35.0	8	9.0	1.9	6.1	205	2005		1				1						
Downbound	Domestic	4	000900	1426	195.0	35.0	8	9.0	1.5	6.5	170	2005		1				1						
Downbound	Domestic	4	823	2500	200.0	35.0	9	12.0	2.0	7.0	250	2005		1				1						
Downbound	Domestic	4	921	1700	195.0	35.0	1	10.0	1.9	-0.9	193	2005		1								1		
Downbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2005		3				3						
Downbound	Domestic	3	150	999999	92.0	30.0	9	8.5	8.5	0.5	420	2005		2		2								
Downbound	Domestic	4	735	1500	200.1	35.0	2	9.0	1.6	0.4	149	2005		2								2		
Downbound	Domestic	4	909	1445	195.0	35.0	2	9.0	1.9	0.1	203	2005		3								3		
Downbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2005		1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	5	825	1602	200.1	35.1	2	9.0	1.8	0.2	183	2005		1										1
Downbound	Domestic	5	818	1638	195.0	35.0	2	10.0	1.8	0.2	160	2005		1										1
Downbound	Domestic	5	797	1783	146.5	52.5	9	8.5	2.0	7.0	133	2005		1						1				
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2005		2				2						
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2005		2				2						
Downbound	Domestic	4	206	414	61.5	31.5	8	9.0	2.0	6.0	125	2005		1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2005		1				1						
Downbound	Domestic	4	764	1619	200.0	35.0	8	9.0	1.3	6.7	165	2005		1				1						
Downbound	Domestic	4	910	1546	195.1	35.1	9	9.0	1.5	7.5	145	2005		1				1						
Downbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2005		1				1						
Downbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2005		1				1						
Downbound	Domestic	5	1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2005		1						1				
Downbound	Domestic	4	964	1677	200.0	35.0	9	9.0	1.5	7.5	150	2005		1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	10	10.0	1.6	8.4	155	2005		1				1						
Downbound	Domestic	4	901	1450	195.0	35.0	2	9.0	1.5	0.5	190	2005		1								1		
Downbound	Domestic	4	848	1524	195.0	35.0	2	9.0	1.6	0.4	185	2005		5								5		
Downbound	Domestic	4	848	1525	195.0	35.0	2	9.0	1.6	0.4	160	2005		1								1		
Downbound	Domestic	4	823	2298	200.0	35.0	2	12.0	1.4	0.6	225	2005		1								1		
Downbound	Domestic	4	764	1535	200.0	35.0	2	9.0	1.8	0.2	225	2005		2								2		
Downbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2005	N	1								1		
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2005		3								3		
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2005		3				3						
Downbound	Domestic	4	909	1525	195.0	35.0	8	9.0	1.5	6.5	203	2005		1				1						
Downbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2005		2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2005		1				1						
Downbound	Domestic	4	687	1571	195.0	35.0	8	9.0	1.3	6.7	145	2005		1				1						
Downbound	Domestic	4	794	1665	200.0	35.0	8	9.0	1.4	6.6	145	2005		1				1						
Downbound	Domestic	4	196	375	61.6	31.2	2	9.0	1.8	0.2	125	2005		5								5		
Downbound	Domestic	4	685	1500	195.0	35.0	2	9.0	1.6	0.4	190	2005		6								6		
Downbound	Domestic	4	994	2000	195.0	35.0	2	9.0	1.5	0.5	160	2005		4								4		
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2005		2								2		
Downbound	Domestic	4	1013	1508	195.0	35.0	2	8.7	1.7	0.3	145	2005		1								1		
Downbound	Domestic	3	87	999999	62.0	26.0	8	7.6	7.6	0.4	430	2005		1		1								
Downbound	Domestic	5	1555	3000	264.0	54.0	9	8.5	2.0	7.0	100	2005		4						4				
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2005		17								17		
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2005		1				1						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2005		5				5						
Downbound	Domestic	4	696	1686	200.0	35.0	8	9.0	1.3	6.7	132	2005		1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2005		10				10						
Downbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2005		1				1						
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2005	N	1				1						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2005		1				1						
Downbound	Domestic	5	1416	2500	256.5	54.0	9	9.0	1.5	7.5	90	2005		1						1				
Downbound	Domestic	4	000680	943	200.1	35.1	8	10.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	3	331	999999	135.1	35.0	7	8.5	8.0	-1.0	400	2005		1		1								
Downbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2005		81		81								
Downbound	Domestic	3	000318	609	147.0	38.0	8	9.0	8.0	0.0	470	2005		1		1								
Downbound	Domestic	4	933	1527	195.0	35.0	2	9.0	1.5	0.5	199	2005		1								1		
Downbound	Domestic	4	000764	1677	200.0	35.0	9	9.0	1.4	7.6	165	2005		2				2						
Downbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2005		1				1						
Downbound	Domestic	4	687	1534	195.0	35.0	9	9.0	1.5	7.5	145	2005		1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2005		1				1						
Downbound	Domestic	4	823	2291	200.0	35.0	8	12.0	1.5	6.5	225	2005		1				1						
Downbound	Domestic	5	1619	3660	297.5	54.0	8	11.0	2.0	6.0	160	2005		2						2				
Downbound	Domestic	4	764	1613	200.0	35.0	8	9.0	1.8	6.2	220	2005		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	9	12.0	1.5	7.5	208	2005		2				2						
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	2.0	0.0	190	2005		1								1		
Downbound	Domestic	4	764	1645	200.0	35.0	2	9.0	1.9	0.1	220	2005		2								2		
Downbound	Domestic	5	001633	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2005		2										2
Downbound	Domestic	4	910	1489	195.0	35.0	2	9.0	1.7	0.3	203	2005		1								1		
Downbound	Domestic	5	797	1783	147.0	52.5	9	9.0	2.0	7.0	180	2005		2						2				
Downbound	Domestic	4	705	1554	200.0	35.0	7	9.0	1.5	5.5	150	2005		1				1						
Downbound	Domestic	4	764	2267	200.0	35.0	9	11.9	1.7	7.3	223	2005		12				12						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2005		1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2005		3				3						
Downbound	Domestic	4	676	1725	195.0	35.0	1	10.0	1.6	-0.6	200	2005		4								4		
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2005		1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2005		11				11						
Downbound	Domestic	4	950	1669	200.0	35.0	8	9.0	1.5	6.5	194	2005		1				1						
Downbound	Domestic	4	889	1424	195.1	35.2	9	9.0	1.1	7.9	194	2005		1				1						
Downbound	Domestic	5	2036	3600	297.5	54.0	9	9.0	2.0	7.0	175	2005		1						1				
Downbound	Domestic	4	975	1520	195.0	35.0	9	9.0	1.6	7.4	146	2005		1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2005	N	1				1						
Downbound	Domestic	4	823	1634	200.0	35.0	2	9.0	1.5	0.5	175	2005		2								2		
Downbound	Domestic	4	931	1655	200.0	35.0	2	9.0	1.5	0.5	190	2005		2								2		
Downbound	Domestic	4	823	1500	200.0	35.0	2	9.0	2.0	0.0	140	2005		1								1		
Downbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2005		1										1
Downbound	Domestic	4	823	2748	200.0	35.0	9	14.0	1.5	7.5	215	2005		20				20						
Downbound	Domestic	4	764	1855	200.0	35.0	9	10.0	1.5	7.5	165	2005		1				1						
Downbound	Domestic	4	889	1424	195.1	35.2	9	9.0	1.9	7.1	194	2005		2				2						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2005	N	1				1						
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2005		44		44								
Downbound	Domestic	5	001619	3526	300.0	54.0	2	10.0	2.3	-0.3	189	2005		2										2
Downbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	165	2005		1										1
Downbound	Domestic	4	000705	1699	200.0	35.0	2	9.0	1.2	0.8	145	2005		2								2		
Downbound	Domestic	5	741	1481	195.0	35.0	2	10.0	2.0	0.0	170	2005		1										1
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	196	2005	N	1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2005		1				1						
Downbound	Domestic	4	206	414	61.5	31.2	7	9.0	2.0	5.0	125	2005		2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	190	2005		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2005		3				3						
Downbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2005		2				2						
Downbound	Domestic	4	1206	2542	200.0	50.0	9	11.0	2.5	6.5	108	2005		1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	180	2005		1								1		
Downbound	Domestic	4	705	9100	200.0	35.0	1	10.0	1.4	-0.4	208	2005		1								1		
Downbound	Domestic	5	855	1800	195.0	35.0	2	11.0	2.0	0.0	170	2005		1										1
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2005		3				3						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2005		6				6						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2005		1				1						
Downbound	Domestic	4	000944	1455	200.0	35.0	8	10.0	1.6	6.4	180	2005		3				3						
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2005		2								2		
Downbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2005		1								1		
Downbound	Domestic	3	200	999999	114.8	30.0	8	8.6	7.0	1.0	340	2005		6		6								
Downbound	Domestic	5	2356	7068	293.0	50.0	9	8.5	2.7	6.3	320	2005		2						2				
Downbound	Domestic	4	601	1626	195.0	35.0	9	9.0	1.4	7.6	146	2005		1				1						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2005		3				3						
Downbound	Domestic	4	000687	1474	195.0	35.0	8	9.0	1.8	6.2	145	2005		1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2005		11				11						
Downbound	Domestic	4	000680	943	195.0	35.0	8	10.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	4	823	2291	200.0	35.0	9	12.0	1.5	7.5	225	2005		2				2						
Downbound	Domestic	4	1051	1586	200.1	35.1	8	8.7	1.5	6.5	171	2005		1				1						
Downbound	Domestic	4	907	1510	195.0	35.0	8	9.0	1.6	6.4	163	2005		1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2005	N	1				1						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2005	N	1								1		
Downbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2005		3				3						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2005		3				3						
Downbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	119	2005		1				1						
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2005		1				1						
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2005		19		19								
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2005		2		2								
Downbound	Domestic	3	200	999999	128.0	35.0	8	8.6	7.0	1.0	360	2005		4		4								
Downbound	Domestic	4	701	1508	195.0	35.0	2	9.0	1.6	0.4	196	2005		2								2		
Downbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	160	2005		1								1		
Downbound	Domestic	4	000687	1476	195.0	35.0	2	9.0	1.7	0.3	205	2005		2								2		
Downbound	Domestic	4	764	1557	200.0	35.0	9	9.0	1.5	7.5	135	2005		1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2005		1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2005		8				8						
Downbound	Domestic	4	700	1487	195.0	35.0	8	11.0	1.7	6.3	180	2005		1				1						
Downbound	Domestic	4	964	2098	200.0	35.0	9	11.0	1.5	7.5	218	2005		1				1						
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2005		6				6						
Downbound	Domestic	5	1455	2500	290.0	54.0	9	9.0	2.0	7.0	175	2005		1						1				
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2005		3								3		
Downbound	Domestic	5	785	1489	195.1	35.1	2	9.0	2.0	0.0	184	2005		1										1
Downbound	Domestic	4	942	1902	195.0	35.0	1	11.0	1.8	-0.8	180	2005		2								2		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2005		3								3		
Downbound	Domestic	4	823	2279	200.0	35.0	2	12.0	1.7	0.3	223	2005		2								2		
Downbound	Domestic	4	000609	2190	200.0	35.0	2	12.0	2.0	0.0	260	2005		1								1		
Downbound	Domestic	5	001618	3990	298.0	53.0	9	10.0	1.5	7.5	215	2005		1						1				
Downbound	Domestic	4	994	1621	200.2	35.1	9	9.0	1.7	7.3	140	2005		1				1						
Downbound	Domestic	4	337	1490	195.0	35.0	8	9.0	1.8	6.2	175	2005	N	1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2005		11								11		
Downbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2005		3				3						
Downbound	Domestic	4	862	1539	195.0	35.0	9	9.0	1.5	7.5	192	2005		1				1						
Downbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2005		1				1						
Downbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2005		3				3						
Downbound	Domestic	4	706	1633	200.0	35.0	8	9.0	1.6	6.4	160	2005		1				1						
Downbound	Domestic	5	849	1660	200.0	35.0	2	9.0	1.6	0.4	170	2005		1										1
Downbound	Domestic	3	333	999999	149.0	33.0	8	8.0	8.0	0.0	170	2005		1		1								
Downbound	Domestic	4	940	1500	195.0	35.0	2	9.6	1.8	0.2	150	2005		1								1		
Downbound	Domestic	5	894	1591	200.0	35.0	2	9.0	1.9	0.1	142	2005		8										8
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2005		6								6		
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2005		10								10		
Downbound	Domestic	4	764	1558	200.0	35.0	2	9.0	1.5	0.5	160	2005		1								1		
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2005		2								2		
Downbound	Domestic	4	1072	1870	200.0	35.0	1	10.0	1.5	-0.5	169	2005		1								1		
Downbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.5	0.5	225	2005		1								1		
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2005		2										2
Downbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2005		1		1								
Downbound	Domestic	4	1009	1531	195.0	35.0	8	9.0	1.6	6.4	193	2005		1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2005		6				6						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2005		9				9						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2005		1				1						
Downbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2005		1				1						
Downbound	Domestic	4	764	1641	200.0	35.0	8	9.0	1.4	6.6	225	2005		1				1						
Downbound	Domestic	4	000823	2297	200.0	35.0	8	12.0	1.6	6.4	225	2005		1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2005		3				3						
Downbound	Domestic	4	960	1672	200.0	35.0	8	9.0	1.3	6.7	208	2005	N	1				1						
Downbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2005		1				1						
Downbound	Domestic	4	848	2153	195.0	35.0	7	10.0	1.5	5.5	185	2005		1				1						
Downbound	Domestic	5	633	1300	195.0	35.0	2	8.6	2.0	0.0	166	2005		1										1
Downbound	Domestic	4	823	1750	200.0	35.0	2	10.0	1.6	0.4	155	2005		1								1		
Downbound	Domestic	5	2200	2720	270.0	53.0	8	8.5	2.0	6.0	300	2005		4						4				
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2005		5				5						
Downbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2005		1				1						
Downbound	Domestic	4	823	1843	200.0	35.0	8	13.0	1.6	6.4	230	2005		1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2005		2				2						
Downbound	Domestic	4	000687	1491	195.0	35.0	8	9.0	1.8	6.2	147	2005		1				1						
Downbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.9	6.1	194	2005		1				1						
Downbound	Domestic	4	986	1477	195.0	35.0	8	9.0	1.7	6.3	205	2005		1				1						
Downbound	Domestic	4	764	1521	200.0	35.0	9	9.0	1.9	7.1	225	2005		1				1						
Downbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2005		1				1						
Downbound	Domestic	4	764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2005		3								3		
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.4	0.6	225	2005		1								1		
Downbound	Domestic	4	676	1501	195.1	35.1	2	9.0	1.6	0.4	210	2005		2								2		
Downbound	Domestic	4	1072	1667	200.0	35.0	2	9.0	1.5	0.5	183	2005		1								1		
Downbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2005		4						4				
Downbound	Domestic	4	000258	2438	180.0	54.0	9	10.0	1.5	7.5	105	2005		1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2005		1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2005		8								8		
Downbound	Domestic	4	823	2304	200.0	35.0	11	12.0	1.5	9.5	190	2005		1				1						
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2005		3				3						
Downbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2005		1				1						
Downbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2005		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.4	6.6	16	2005		1				1						
Downbound	Domestic	4	696	1643	200.1	35.1	8	9.0	1.6	6.4	210	2005		1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	180	2005		3								3		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2005		7								7		
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2005		1								1		
Downbound	Domestic	4	000764	2190	200.0	35.0	2	12.0	2.0	0.0	160	2005	N	1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2005		6				6						
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2005		1						1				
Downbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2005		3				3						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2005		3				3						
Downbound	Domestic	4	696	2297	200.0	35.0	7	10.0	1.4	5.6	185	2005		1				1						
Downbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.5	6.5	200	2005		1				1						
Downbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2005		3								3		
Downbound	Domestic	4	000609	2190	200.0	35.0	6	12.0	2.0	4.0	260	2005		3				3						
Downbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2005		2				2						
Downbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2005		1				1						
Downbound	Domestic	5	860	1600	195.0	35.0	9	10.0	1.9	7.1	165	2005		1						1				
Downbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2005		1				1						
Downbound	Domestic	4	698	1659	200.0	35.0	2	9.0	1.3	0.7	185	2005		1								1		
Downbound	Domestic	4	696	1643	200.1	35.1	2	9.0	1.6	0.4	210	2005		2								2		
Downbound	Domestic	4	1013	1468	195.0	35.0	2	8.7	1.9	0.1	145	2005		1								1		
Downbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2005		1				1						
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2005		4				4						
Downbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2005		9								9		
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2005		24				24						
Downbound	Domestic	4	676	1706	195.0	35.0	8	10.0	1.7	6.3	160	2005		1				1						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2005		1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2005		1				1						
Downbound	Domestic	4	1046	1904	195.0	35.0	1	11.0	1.8	-0.8	191	2005		2								2		
Downbound	Domestic	5	2917	2400	295.0	52.5	9	9.0	2.0	7.0	320	2005		2						2				
Downbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2005		2				2						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	9999	2005		1				1						
Downbound	Domestic	4	000944	1455	195.0	35.0	9	10.0	1.5	7.5	180	2005		1				1						
Downbound	Domestic	4	705	1648	200.0	35.0	9	12.0	1.5	7.5	186	2005		1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2005	N	1				1						
Downbound	Domestic	5	1754	4968	297.5	54.0	2	9.5	2.0	0.0	220	2005		2										2
Downbound	Domestic	5	886	1489	195.0	35.0	2	9.0	1.3	0.7	164	2005		1										1
Downbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	120	2005		1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2005		3								3		
Downbound	Domestic	4	745	1485	195.0	35.0	2	9.0	1.8	0.2	225	2005		2								2		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	180	2005		2								2		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.7	0.3	215	2005		2								2		
Downbound	Domestic	5	800	1701	195.0	35.0	9	10.0	2.0	7.0	170	2005		1						1				
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2005		1				1						
Downbound	Domestic	5	862	1650	150.1	50.0	9	9.0	1.6	7.4	182	2005		1						1				
Downbound	Domestic	4	698	1536	195.0	35.0	8	9.0	1.5	6.5	196	2005		1				1						
Downbound	Domestic	4	000802	2300	200.0	35.0	9	12.0	1.6	7.4	195	2005		1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	8	9.0	7.6	0.4	320	2005		1		1								
Downbound	Domestic	4	888	1529	195.0	35.0	2	9.0	1.5	0.5	160	2005		8								8		
Downbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2005		1		1								
Downbound	Domestic	4	1009	1683	200.0	35.0	2	9.0	1.2	0.8	193	2005		7								7		
Downbound	Domestic	4	713	1550	200.0	35.0	2	9.0	1.2	0.8	190	2005		1								1		
Downbound	Domestic	4	909	1442	195.0	35.0	2	9.0	1.9	0.1	203	2005		1								1		
Downbound	Domestic	5	2424	2212	295.0	50.0	9	9.0	2.0	7.0	250	2005		2						2				
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2005	N	1				1						
Downbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2005		2				2						
Downbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2005		3				3						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2005		1				1						
Downbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2005		2								2		
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2005	N	1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2005		1				1						
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2005		3		3								
Downbound	Domestic	4	883	1496	195.0	35.0	2	9.0	1.7	0.3	204	2005		1								1		
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2005		1										1
Downbound	Domestic	4	000706	1557	200.0	35.0	2	9.0	1.6	0.4	205	2005		1								1		
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2005		2								2		
Downbound	Domestic	5	2200	2720	270.0	53.0	9	8.5	2.0	7.0	300	2005		1						1				
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2005		2				2						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2005		1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2005		2				2						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2005		3				3						
Downbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2005		1				1						
Downbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2005		14								14		
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2005		2				2						
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2005		5				5						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2005		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	9	10.0	1.5	7.5	199	2005		1				1						
Downbound	Domestic	3	204	999999	91.5	32.0	7	7.6	6.0	1.0	436	2005		4		4								
Downbound	Domestic	5	798	1477	195.0	35.0	2	9.0	2.0	0.0	173	2005		1										1
Downbound	Domestic	5	785	1488	195.0	35.0	3	9.0	2.5	0.5	140	2005		1										1
Downbound	Domestic	3	235	999999	99.0	32.0	7	8.5	7.5	-0.5	406	2005		2		2								
Downbound	Domestic	4	000706	1534	200.0	35.0	2	9.0	1.8	0.2	205	2005		2								2		
Downbound	Domestic	5	848	1400	195.0	35.0	2	9.5	1.8	0.2	170	2005		1										1
Downbound	Domestic	5	1754	4240	297.5	54.0	2	11.0	1.5	0.5	200	2005		2										2
Downbound	Domestic	4	764	1536	200.0	35.0	2	9.0	1.7	0.3	155	2005		1								1		
Downbound	Domestic	5	766	1500	200.0	35.0	9	9.0	2.0	7.0	170	2005		3						3				
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2005		4				4						
Downbound	Domestic	4	000687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2005		1				1						
Downbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2005		1				1						
Downbound	Domestic	4	705	1501	200.0	35.0	9	12.0	1.5	7.5	186	2005		3				3						
Downbound	Domestic	5	1754	4968	297.5	54.0	5	9.5	2.0	3.0	220	2005		2						2				
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	205	2005		1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	120	2005		3						3				
Downbound	Domestic	5	788	1507	195.0	35.0	2	9.0	1.6	0.4	170	2005		2										2
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2005		4										4
Downbound	Domestic	4	888	1500	195.0	35.0	2	12.0	2.0	0.0	149	2005		1								1		
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2005		1								1		
Downbound	Domestic	4	706	1563	200.0	35.0	2	9.0	1.7	0.3	205	2005		1								1		
Downbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2005		4				4						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2005		3				3						
Downbound	Domestic	4	823	1732	200.0	35.0	9	9.6	1.7	7.3	208	2005		3				3						
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2005		1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2005		4				4						
Downbound	Domestic	4	783	1937	195.0	35.0	9	11.0	1.8	7.2	210	2005		1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2005		1				1						
Downbound	Domestic	4	975	1489	195.0	35.0	8	9.0	1.7	6.3	203	2005		1				1						
Downbound	Domestic	4	206	414	61.5	31.2	8	9.0	2.0	6.0	125	2005		1				1						
Downbound	Domestic	3	199	999999	150.2	44.2	8	10.8	9.3	-1.3	430	2005		4		4								
Downbound	Domestic	4	1013	1416	195.0	35.0	9	8.7	1.7	7.3	211	2005		1				1						
Downbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2005		2				2						
Downbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2005	N	1				1						
Downbound	Domestic	4	957	1644	200.0	35.0	8	9.0	1.5	6.5	170	2005		1				1						
Downbound	Domestic	5	1597	3500	300.1	52.1	12	10.0	2.0	10.0	180	2005		3						3				
Downbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2005		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	2	10.0	1.5	0.5	199	2005		1								1		
Downbound	Domestic	4	687	1510	195.0	35.0	2	9.0	1.6	0.4	119	2005		1								1		
Downbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2005		2								2		
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	189	2005		1								1		
Downbound	Domestic	5	759	1578	200.0	35.0	2	9.0	1.9	0.1	164	2005		3										3
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2005		1								1		
Downbound	Domestic	3	200	999999	95.0	30.0	7	8.5	7.0	0.0	300	2005		1		1								
Downbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2005		1		1								
Downbound	Domestic	4	910	1574	195.0	35.0	2	9.0	1.6	0.4	206	2005		1								1		
Downbound	Domestic	5	1707	3100	264.0	54.0	9	10.0	2.0	7.0	170	2005		2						2				
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2005		1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2005		5				5						
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2005		5				5						
Downbound	Domestic	5	2239	3446	297.5	54.0	9	9.0	2.0	7.0	250	2005		1						1				
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2005		1				1						
Downbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2005		1				1						
Downbound	Domestic	4	685	1728	195.0	35.0	8	10.0	1.6	6.4	176	2005		2				2						
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2005		1				1						
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2005		20		20								
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2005		24		24								
Downbound	Domestic	5	835	1662	195.0	35.0	2	10.0	1.9	0.1	149	2005		3										3
Downbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2005		3										3
Downbound	Domestic	4	705	1767	200.0	35.0	2	9.0	1.1	0.9	146	2005		1								1		
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.6	0.4	190	2005		1								1		
Downbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2005		1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2005		2				2						
Downbound	Domestic	4	705	9100	200.0	35.0	9	10.0	1.4	7.6	208	2005		1				1						
Downbound	Domestic	4	206	414	61.6	31.2	7	8.6	2.0	5.0	125	2005		1				1						
Downbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2005		1				1						
Downbound	Domestic	5	1092	2100	175.0	54.0	8	8.5	1.3	6.7	180	2005		1						1				
Downbound	Domestic	4	546	1900	200.0	35.0	8	9.0	2.0	6.0	190	2005		1				1						
Downbound	Domestic	4	723	1875	200.0	35.0	2	10.0	1.7	0.3	163	2005		1								1		
Downbound	Domestic	4	745	1510	195.0	35.0	2	9.0	1.6	0.4	155	2005		1								1		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	196	2005		1								1		
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2005		2								2		
Downbound	Domestic	4	705	1501	200.0	35.0	2	12.0	1.5	0.5	186	2005		2								2		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	165	2005		2								2		
Downbound	Domestic	5	716	1450	195.0	35.0	3	8.5	2.7	0.3	145	2005		1										1
Downbound	Domestic	4	1013	1508	195.0	35.0	2	8.7	1.7	0.3	211	2005		1								1		
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.6	7.4	170	2005	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	2.0	7.0	191	2005		1				1						
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2005		1				1						
Downbound	Domestic	5	1698	3570	290.0	54.0	9	9.6	1.5	7.5	120	2005		1						1				
Downbound	Domestic	5	2328	2720	298.0	53.0	8	8.5	3.0	5.0	312	2005		1						1				
Downbound	Domestic	4	000705	1645	200.0	35.0	7	13.0	1.6	5.4	230	2005		1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2005		1				1						
Downbound	Domestic	4	764	1765	200.0	35.0	9	10.0	2.0	7.0	165	2005		1				1						
Downbound	Domestic	4	196	500	110.0	30.1	4	6.7	1.7	2.3	70	2005		1				1						
Downbound	Domestic	4	823	2743	200.0	35.0	2	14.0	1.5	0.5	241	2005		2								2		
Downbound	Domestic	4	694	1728	195.0	35.0	2	10.0	1.6	0.4	176	2005		1								1		
Downbound	Domestic	4	700	1504	195.0	35.0	2	9.0	1.6	0.4	206	2005		5								5		
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	187	2005		1								1		
Downbound	Domestic	4	729	1883	200.0	35.0	2	10.0	1.5	0.5	176	2005		1								1		
Downbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2005		81								81		
Downbound	Domestic	4	764	2187	200.0	35.0	2	12.0	1.7	0.3	240	2005		1								1		
Downbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.9	0.1	194	2005		1								1		
Downbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2005		2		2								
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2005		8				8						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2005		5				5						
Downbound	Domestic	4	700	2140	195.0	35.0	7	10.0	1.3	5.7	195	2005		1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2005		2				2						
Downbound	Domestic	4	743	1651	200.0	35.0	9	9.0	1.6	7.4	180	2005		1				1						
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2005		2				2						
Downbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2005		1				1						
Downbound	Domestic	5	1659	2500	295.0	54.0	9	9.0	2.0	7.0	90	2005		1						1				
Downbound	Domestic	4	795	1665	200.0	35.0	8	9.0	1.4	6.6	147	2005		1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2005		3				3						
Downbound	Domestic	4	994	1475	195.0	35.0	2	9.0	1.6	0.4	189	2005		3								3		
Downbound	Domestic	4	698	1475	195.0	35.0	2	9.0	1.6	0.4	189	2005		1								1		
Downbound	Domestic	4	747	1500	195.0	35.0	2	9.0	1.6	0.4	136	2005		2								2		
Downbound	Domestic	4	706	1507	200.0	35.0	2	9.0	1.9	0.1	215	2005		1								1		
Downbound	Domestic	4	730	1664	200.0	35.0	2	9.0	1.4	0.6	148	2005		1								1		
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2005		8				8						
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2005		4				4						
Downbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2005		3				3						
Downbound	Domestic	5	2111	4400	290.0	54.0	9	9.3	2.0	7.0	200	2005		1						1				
Downbound	Domestic	4	1056	1675	200.0	35.0	9	9.0	1.6	7.4	160	2005		1				1						
Downbound	Domestic	4	695	1544	195.0	35.0	8	9.0	1.4	6.6	146	2005		1				1						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2005		1				1						
Downbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2005		1				1						
Downbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2005		1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2005		1				1						
Downbound	Domestic	4	960	1635	200.0	35.0	8	9.0	1.6	6.4	177	2005		1				1						
Downbound	Domestic	5	773	1475	195.0	35.0	2	9.0	1.3	0.7	165	2005		1										1
Downbound	Domestic	4	601	1400	195.0	35.0	2	10.0	2.0	0.0	110	2005		9								9		
Downbound	Domestic	5	812	1432	195.0	35.0	2	9.0	1.1	0.9	142	2005		1										1
Downbound	Domestic	4	907	1511	195.0	35.0	2	9.0	1.7	0.3	191	2005		1								1		
Downbound	Domestic	4	889	1464	195.1	35.2	2	9.0	1.8	0.2	194	2005		1								1		
Downbound	Domestic	4	676	1498	195.0	35.0	2	9.0	1.7	0.3	160	2005		1								1		
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2005		2				2						
Downbound	Domestic	4	000682	943	195.0	35.0	8	10.0	1.6	6.4	180	2005		2				2						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2005		5				5						
Downbound	Domestic	4	823	1624	200.0	35.0	9	9.0	1.6	7.4	200	2005		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2005		4				4						
Downbound	Domestic	4	700	1522	195.0	35.0	8	9.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	5	1876	3300	297.5	54.0	9	9.6	2.0	7.0	220	2005		4						4				
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2005		1				1						
Downbound	Domestic	4	926	1633	200.0	35.0	8	9.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	4	823	1624	200.0	35.0	2	9.0	1.6	0.4	191	2005		1								1		
Downbound	Domestic	4	206	414	61.6	31.2	2	8.6	2.0	0.0	125	2005		3								3		
Downbound	Domestic	4	679	1502	195.0	35.0	2	9.0	1.7	0.3	191	2005		1								1		
Downbound	Domestic	4	745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2005		2								2		
Downbound	Domestic	4	764	1521	200.0	35.0	2	9.0	1.9	0.1	225	2005		1								1		
Downbound	Domestic	4	687	1518	195.0	35.0	2	9.0	1.6	0.4	150	2005		2								2		
Downbound	Domestic	3	189	999999	106.0	30.0	8	8.6	7.0	1.0	340	2005		1		1								
Downbound	Domestic	5	1414	3100	256.5	54.0	9	10.0	2.0	7.0	170	2005		1						1				
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2005		6				6						
Downbound	Domestic	4	695	1520	195.0	35.0	8	9.0	1.6	6.4	146	2005		1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2005		2				2						
Downbound	Domestic	4	696	1873	200.0	35.0	8	9.0	1.5	6.5	169	2005		1				1						
Downbound	Domestic	4	1065	1644	200.0	35.0	8	9.0	1.5	6.5	190	2005		1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2005		1				1						
Downbound	Domestic	4	000745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2005		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2005		1				1						
Downbound	Domestic	4	705	1699	200.0	35.0	9	9.0	1.2	7.8	146	2005		1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2005		1				1						
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2005		17		17								
Downbound	Domestic	4	745	1714	195.0	35.0	2	9.0	1.6	0.4	210	2005		1								1		
Downbound	Domestic	4	927	1549	200.0	35.0	2	9.0	1.5	0.5	120	2005		1								1		
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2005		19		19								
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	190	2005		6								6		
Downbound	Domestic	3	172	999999	70.0	28.0	7	9.0	8.2	-1.2	450	2005		1		1								
Downbound	Domestic	5	1025	1833	150.0	52.6	9	9.0	1.6	7.4	180	2005		1						1				
Downbound	Domestic	4	933	1527	195.0	35.0	9	12.0	1.5	7.5	199	2005		1				1						
Downbound	Domestic	5	2482	2500	293.0	50.0	10	9.0	2.0	8.0	220	2005		2						2				
Downbound	Domestic	4	706	1868	200.0	35.0	9	10.0	1.5	7.5	196	2005	N	1				1						
Downbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2005		6				6						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2005		2				2						
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2005		5				5						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2005		3				3						
Downbound	Domestic	4	705	1727	200.0	35.0	9	9.0	1.1	7.9	146	2005		1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	170	2005		1				1						
Downbound	Domestic	4	688	1495	195.0	35.0	9	9.0	1.9	7.1	169	2005		1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.6	0.4	170	2005		2								2		
Downbound	Domestic	4	888	1500	195.0	35.0	2	9.0	1.7	0.3	149	2005		1								1		
Downbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	132	2005		1								1		
Downbound	Domestic	3	196	999999	81.5	30.0	7	9.6	6.5	0.5	350	2005		1		1								
Downbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2005		1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2005		1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2005	N	1				1						
Downbound	Domestic	5	1614	3289	297.5	52.5	9	9.0	2.0	7.0	133	2005		1						1				
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2005		5				5						
Downbound	Domestic	4	764	2187	200.0	35.0	10	12.0	1.7	8.3	240	2005		1				1						
Downbound	Domestic	3	244	999999	120.0	35.0	7	7.5	7.0	0.0	160	2005		3		3								
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	225	2005		3										3
Downbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2005		2								2		
Downbound	Domestic	4	700	1520	195.0	35.0	2	9.0	1.6	0.4	190	2005		1								1		
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2005	N	1				1						
Downbound	Domestic	4	764	2073	200.0	35.0	10	11.6	1.6	8.4	110	2005		2				2						
Downbound	Domestic	4	745	1714	195.0	35.0	11	9.0	1.6	9.4	210	2005		1				1						
Downbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2005		1				1						
Downbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2005		4				4						
Downbound	Domestic	4	889	1464	195.1	35.2	9	9.0	1.8	7.2	194	2005		1				1						
Downbound	Domestic	5	1463	3800	290.1	54.1	9	9.3	2.0	7.0	100	2005		1						1				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

																0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																		Loaded				Unloaded			
																		Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2005		1				1						
Downbound	Domestic	4	000764	2202	200.0	35.0	8	13.0	2.0	6.0	208	2005		1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2005		21		21								
Downbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	185	2005		1								1		
Downbound	Domestic	5	773	1811	195.1	35.0	2	10.6	2.0	0.0	170	2005		2										2
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2005		1								1		
Downbound	Domestic	4	705	1640	200.0	35.0	2	9.0	1.5	0.5	165	2005		1								1		
Downbound	Domestic	4	000705	1692	200.0	35.0	2	9.0	1.2	0.8	145	2005		1								1		
Downbound	Domestic	4	000823	2300	200.0	35.0	2	13.0	1.6	0.4	165	2005		1								1		
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	145	2005		1				1						
Downbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	240	2005		1				1						
Downbound	Domestic	4	941	1859	200.0	35.0	8	10.0	1.6	6.4	160	2005		2				2						
Downbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2005		2				2						
Downbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2005		1				1						
Downbound	Domestic	4	843	1743	195.0	35.0	10	10.0	1.6	8.4	145	2005		1				1						
Downbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2005		1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2005		11				11						
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2005		1							1			
Downbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2005		1				1						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2005		4				4						
Downbound	Domestic	4	985	1520	195.0	35.0	9	9.0	1.6	7.4	160	2005	N	1				1						
Downbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	210	2005		1				1						
Downbound	Domestic	4	311	1498	195.0	35.0	2	9.0	1.6	0.4	155	2005		2								2		
Downbound	Domestic	4	764	1527	200.0	35.0	2	9.0	1.8	0.2	205	2005		4								4		
Downbound	Domestic	5	805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2005		1										1
Downbound	Domestic	5	001754	4211	297.5	54.0	2	11.0	2.0	0.0	200	2005		3										3
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2005		1								1		
Downbound	Domestic	5	2328	2720	298.0	53.0	9	8.5	3.0	6.0	312	2005		2							2			
Downbound	Domestic	5	2482	2203	294.0	50.0	9	9.0	2.0	7.0	300	2005		4							4			
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2005		8				8						
Downbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2005		2				2						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2005		4				4						
Downbound	Domestic	4	833	1524	195.0	35.0	9	9.0	1.6	7.4	185	2005		1				1						
Downbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2005		1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.6	7.4	160	2005		1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2005		1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2005		1				1						
Downbound	Domestic	5	839	1800	137.0	54.0	9	9.0	1.6	7.4	90	2005		1							1			
Downbound	Domestic	4	196	375	61.6	31.2	9	9.0	1.8	7.2	125	2005		1				1						
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2005		3		3								
Downbound	Domestic	3	130	999999	74.0	30.0	11	11.0	11.0	0.0	400	2005		2		2								
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2005		3								3		
Downbound	Domestic	3	104	999999	72.0	27.0	7	8.0	7.0	0.0	390	2005		3		3								
Downbound	Domestic	4	823	1642	200.0	35.0	2	9.0	1.6	0.4	160	2005		2								2		
Downbound	Domestic	5	835	1426	195.0	35.0	2	9.0	2.1	-0.1	136	2005		1										1
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2005		3								3		
Downbound	Domestic	4	823	2733	200.0	35.0	2	12.0	1.5	0.5	241	2005		1								1		
Downbound	Domestic	4	888	1475	195.0	35.0	9	9.0	1.6	7.4	206	2005		1				1						
Downbound	Domestic	5	741	1701	195.0	35.0	9	10.0	2.0	7.0	170	2005		4							4			
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2005		3				3						
Downbound	Domestic	4	705	1554	200.0	35.0	6	9.0	1.5	4.5	150	2005		1				1						
Downbound	Domestic	4	799	1887	200.0	35.0	9	10.0	1.5	7.5	149	2005		1				1						
Downbound	Domestic	4	910	2096	195.0	35.0	9	12.0	1.8	7.2	240	2005		1				1						
Downbound	Domestic	4	1099	1661	200.0	35.0	8	9.0	1.5	6.5	190	2005		1				1						
Downbound	Domestic	3	131	999999	75.0	27.2	7	9.6	8.0	-1.0	315	2005		1		1								
Downbound	Domestic	4	883	1496	195.0	35.0	2	9.0	1.6	0.4	180	2005		1								1		
Downbound	Domestic	4	888	1500	195.1	35.0	2	9.0	1.6	0.4	149	2005		3								3		
Downbound	Domestic	4	748	1642	200.0	35.0	2	9.0	1.6	0.4	196	2005		1								1		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2005		1								1		
Downbound	Domestic	4	000764	1677	200.0	35.0	2	9.0	1.4	0.6	165	2005		1								1		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.8	0.2	189	2005		2								2		
Downbound	Domestic	5	1755	4211	297.7	54.0	2	11.0	1.5	0.5	200	2005		3										3
Downbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2005		1				1						
Downbound	Domestic	4	1009	1441	195.1	35.1	8	8.7	1.7	6.3	170	2005		1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.5	8.5	165	2005		1				1						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2005		1				1						
Downbound	Domestic	5	001633	4327	300.0	54.0	9	10.0	2.0	7.0	189	2005		1							1			
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2005		2				2						
Downbound	Domestic	4	705	1885	200.0	35.0	9	9.0	1.4	7.6	208	2005		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.4	7.6	16	2005		2				2						
Downbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2005		3				3						
Downbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2005		1				1						
Downbound	Domestic	4	681	1500	195.0	35.0	8	9.0	1.6	6.4	190	2005		1				1						
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2005		1				1						
Downbound	Domestic	4	700	1487	195.0	35.0	8	9.0	1.0	7.0	180	2005		1				1						
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2005		16		16								
Downbound	Domestic	4	966	1670	200.0	35.0	2	9.0	1.5	0.5	160	2005		2								2		
Downbound	Domestic	3	204	999999	156.0	38.0	7	6.5	6.5	0.5	363	2005		1		1								
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2005		8								8		
Downbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	150	2005		1								1		
Downbound	Domestic	4	922	1842	200.0	35.0	2	10.0	1.8	0.2	210	2005		1								1		
Downbound	Domestic	3	345	999999	138.5	34.5	8	8.6	7.0	1.0	350	2005		4		4								
Downbound	Domestic	4	705	2200	195.0	35.0	2	12.0	2.0	0.0	146	2005		1								1		
Downbound	Domestic	5	002482	2202	293.0	50.0	9	9.0	2.0	7.0	250	2005		3							3			
Downbound	Domestic	5	1754	4292	297.5	54.0	9	11.0	2.0	7.0	200	2005		1							1			
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2005		3				3						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2005		1				1						
Downbound	Domestic	4	736	1638	200.0	35.0	8	9.0	1.6	6.4	176	2005		1				1						
Downbound	Domestic	4	848	1522	195.0	35.0	8	9.0	1.6	6.4	192	2005		1				1						
Downbound	Domestic	4	823	2319	200.0	35.0	9	12.0	1.3	7.7	227	2005		1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2005		1				1						
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2005		2								2		
Downbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2005		3								3		
Downbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2005		5								5		
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2005		20								20		
Downbound	Domestic	5	812	1432	195.0	35.0	2	9.0	1.9	0.1	142	2005		1										1
Downbound	Domestic	4	700	1487	195.0	35.0	10	11.0	1.7	8.3	180	2005		5				5						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2005		2				2						
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2005		4				4						
Downbound	Domestic	4	966	1659	200.0	35.0	8	9.0	1.5	6.5	165	2005		1				1						
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2005		3				3						
Downbound	Domestic	4	865	1478	195.1	35.1	8	9.0	1.8	6.2	130	2005		1				1						
Downbound	Domestic	4	917	1587	200.1	35.1	9	9.0	1.5	7.5	161	2005		1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2005	N	1				1						
Downbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2005		2				2						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2005		2		2								
Downbound	Domestic	4	196	375	61.6	31.2	2	9.0	2.0	0.0	125	2005		6								6		
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2005		8								8		
Downbound	Domestic	4	981	1600	200.0	35.0	2	9.0	1.0	1.0	172	2005		1								1		
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2005		11								11		
Downbound	Domestic	4	735	1500	200.0	35.0	2	9.0	1.6	0.4	149	2005		1								1		
Downbound	Domestic	4	908	1654	200.0	35.0	2	9.0	1.4	0.6	204	2005		4								4		
Downbound	Domestic	4	000764	2190	200.0	35.0	2	12.0	2.0	0.0	160	2005		4								4		
Downbound	Domestic	4	823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2005	N	2				2						
Downbound	Domestic	4	823	2733	200.0	35.0	8	14.0	1.5	6.5	241	2005		1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2005		7				7						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2005		2				2						
Downbound	Domestic	4	883	1602	195.0	35.0	11	12.0	1.7	9.3	191	2005		1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	7	9.0	1.4	5.6	120	2005		3				3						
Downbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2005		1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.6	7.4	225	2005		1				1						
Downbound	Domestic	4	206	414	61.5	31.2	2	9.0	2.0	0.0	125	2005		38								38		
Downbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2005		2								2		
Downbound	Domestic	4	764	1536	200.0	35.0	2	9.0	1.7	0.3	180	2005		1								1		
Downbound	Domestic	5	855	1490	195.0	35.0	2	9.0	2.0	0.0	170	2005		1										1
Downbound	Domestic	4	716	1525	195.0	35.0	9	9.0	1.4	7.6	150	2005		1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2005		1				1						
Downbound	Domestic	4	687	1522	195.0	35.0	8	9.0	1.6	6.4	165	2005		1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2005		1				1						
Downbound	Domestic	4	950	1693	200.0	35.0	8	9.0	1.2	6.8	146	2005		1				1						
Downbound	Domestic	4	917	1647	200.0	35.0	8	9.0	1.5	6.5	150	2005		1				1						
Downbound	Domestic	4	907	1733	195.0	35.0	1	10.0	1.6	-0.6	200	2005		1								1		
Downbound	Domestic	4	764	1536	200.0	35.0	2	9.0	1.7	0.3	165	2005		2								2		
Downbound	Domestic	4	676	1633	195.0	35.0	2	9.6	1.7	0.3	190	2005		1								1		
Downbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2005		1								1		
Downbound	Domestic	4	745	1510	195.0	35.0	2	9.0	1.6	0.4	155	2005	N	1								1		
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2005		8						8				
Downbound	Domestic	4	945	1835	200.0	35.0	8	10.0	1.7	6.3	180	2005	N	1				1						
Downbound	Domestic	5	001754	4211	297.5	54.0	7	11.0	2.0	5.0	200	2005		1						1				
Downbound	Domestic	4	000964	1642	200.0	35.0	9	9.0	1.5	7.5	145	2005		1				1						
Downbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2005		1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	180	2005		1				1						
Downbound	Domestic	4	910	1649	200.0	35.0	8	9.0	1.6	6.4	190	2005		1				1						
Downbound	Domestic	4	687	1722	195.0	35.0	1	10.0	1.6	-0.6	205	2005		4								4		
Downbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.5	6.5	170	2005		1				1						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2005		3				3						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2005		4				4						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2005		1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2005		2								2		
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2005		4								4		
Downbound	Domestic	4	700	1511	195.0	35.0	2	9.0	1.6	0.4	204	2005		1								1		
Downbound	Domestic	4	1065	1670	200.0	35.0	2	9.0	1.4	0.6	160	2005		1								1		
Downbound	Domestic	4	706	1660	200.0	35.0	2	9.0	1.5	0.5	196	2005		1								1		
Downbound	Domestic	4	470	1200	160.0	35.0	2	8.5	1.5	0.5	100	2005		8								8		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2005		3								3		
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2005		3				3						
Downbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2005		6								6		
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2005		6				6						
Downbound	Domestic	4	931	2311	200.0	35.0	7	10.0	1.4	5.6	186	2005		1				1						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2005		9				9						
Downbound	Domestic	4	823	1751	200.0	35.0	9	10.0	1.7	7.3	190	2005		1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2005		1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	9	11.0	1.5	7.5	200	2005		1				1						
Downbound	Domestic	5	2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2005		1						1				
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2005		1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2005		2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.6	7.4	190	2005		2				2						
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2005		2				2						
Downbound	Domestic	4	618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2005		1				1						
Downbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2005		2				2						
Downbound	Domestic	4	000685	1480	195.0	35.0	9	10.0	1.5	7.5	180	2005		1				1						
Downbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2005		2				2						
Downbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2005		2								2		
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2005		5										5
Downbound	Domestic	4	910	1489	195.0	35.0	2	9.0	1.7	0.3	145	2005		2								2		
Downbound	Domestic	4	717	1662	200.0	35.0	2	9.0	1.4	0.6	191	2005		2								2		
Downbound	Domestic	4	950	1500	200.1	35.0	2	9.0	1.9	0.1	149	2005		1								1		
Downbound	Domestic	4	764	1422	200.0	35.0	2	8.0	1.6	0.4	165	2005		4								4		
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2005		2								2		
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2005		6				6						
Downbound	Domestic	4	764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2005		1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2005		1				1						
Downbound	Domestic	4	000944	1455	195.0	35.0	8	10.0	1.5	6.5	180	2005		5				5						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2005		8				8						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2005		2				2						
Downbound	Domestic	4	823	2078	200.0	35.0	8	11.0	1.6	6.4	250	2005		1				1						
Downbound	Domestic	4	705	1618	200.0	35.0	8	9.0	2.0	6.0	210	2005		1				1						
Downbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2005		1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	224	2005		1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2005		1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2005		3								3		
Downbound	Domestic	4	743	1650	200.0	35.0	2	9.0	1.5	0.5	166	2005		1								1		
Downbound	Domestic	4	000687	1490	195.0	35.0	2	9.0	1.8	0.2	205	2005		1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2005		2								2		
Downbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2005		1		1								
Downbound	Domestic	5	748	900	195.0	35.0	2	9.0	2.0	0.0	176	2005		2										2
Downbound	Domestic	4	676	1511	195.0	35.0	2	9.0	1.6	0.4	192	2005		1								1		
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2005		7						7				
Downbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2005		4				4						
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2005		1				1						
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2005		1				1						
Downbound	Domestic	5	002424	2213	295.0	50.0	9	9.0	2.5	6.5	280	2005		3						3				
Downbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2005		3								3		
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2005		1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2005		1						1				
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2005		1				1						
Downbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2005		1				1						
Downbound	Domestic	4	701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2005		1				1						
Downbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2005		2								2		
Downbound	Domestic	4	743	1662	200.0	35.0	2	9.0	1.5	0.5	170	2005		1								1		
Downbound	Domestic	3	000219	322	120.0	35.0	8	10.0	8.0	0.0	290	2005		1		1								
Downbound	Domestic	4	687	1600	195.0	35.0	8	9.0	2.0	6.0	126	2005		1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	9	9.0	1.6	7.4	170	2005		1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2005		1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2005		2				2						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2005		12				12						
Downbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2005		1				1						
Downbound	Domestic	5	863	2800	150.0	50.0	8	8.6	1.6	6.4	165	2005		1						1				
Downbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2005		1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2005		2								2		
Downbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2005		2				2						
Downbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2005	N	1				1						
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2005		4				4						
Downbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.1	6.9	194	2005		3				3						
Downbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2005		1				1						
Downbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2005		2				2						
Downbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2005		1				1						
Downbound	Domestic	4	687	1501	195.0	35.0	9	12.0	1.5	7.5	186	2005		1				1						
Downbound	Domestic	4	736	1884	200.0	35.0	2	10.0	1.5	0.5	176	2005		2								2		
Downbound	Domestic	4	697	1729	195.0	35.0	2	10.0	1.5	0.5	176	2005		4								4		
Downbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2005		1								1		
Downbound	Domestic	4	688	1519	195.0	35.0	2	9.0	1.6	0.4	160	2005		1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	1617	200.0	35.0	2	9.0	1.6	0.4	205	2005		2								2		
Downbound	Domestic	4	687	1500	195.0	35.0	2	12.0	2.0	0.0	149	2005		3								3		
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	192	2005		8				8						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2005		5				5						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2005		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	204	2005		2								2		
Downbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2005		11				11						
Downbound	Domestic	4	676	1492	195.0	35.0	8	9.0	1.8	6.2	162	2005		1				1						
Downbound	Domestic	4	687	1515	195.0	35.0	8	9.0	1.5	6.5	187	2005		1				1						
Downbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2005		1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2005		35		35								
Downbound	Domestic	4	994	2000	195.0	35.0	2	9.0	1.5	0.5	189	2005		2								2		
Downbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2005		2								2		
Downbound	Domestic	4	676	1501	195.0	35.0	2	9.0	1.6	0.4	169	2005		1								1		
Downbound	Domestic	4	823	1751	200.0	35.0	2	10.0	1.7	0.3	190	2005		1								1		
Downbound	Domestic	4	745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2005		3								3		
Downbound	Domestic	5	000825	1422	195.0	35.0	2	9.0	1.1	0.9	194	2005		1										1
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2005		1				1						
Downbound	Domestic	5	2482	2208	294.0	50.0	9	9.0	2.0	7.0	300	2005		4						4				
Downbound	Domestic	4	950	1500	200.0	35.0	8	9.0	1.9	6.1	149	2005		2				2						
Downbound	Domestic	4	696	1648	200.0	35.0	8	9.0	1.5	6.5	169	2005		2				2						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2005		1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2005		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2005		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	186	2005		1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2005		4								4		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2005		1								1		
Downbound	Domestic	4	000764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2005		1								1		
Downbound	Domestic	4	764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2005		1								1		
Downbound	Domestic	5	001633	3860	300.0	54.0	2	10.0	2.0	0.0	189	2005		1										1
Downbound	Domestic	5	716	1472	195.0	35.0	2	9.0	1.9	0.1	176	2005		1										1
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2005		1								1		
Downbound	Domestic	5	1568	3121	290.0	52.5	9	9.0	1.5	7.5	180	2005		1						1				
Downbound	Domestic	5	1876	3300	297.5	54.0	12	9.6	1.5	10.5	180	2005		1						1				
Downbound	Domestic	4	1056	1675	200.0	35.0	8	9.0	1.6	6.4	160	2005		1				1						
Downbound	Domestic	4	1006	1902	195.0	35.0	9	11.0	1.9	7.1	199	2005		1				1						
Downbound	Domestic	4	735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2005		1				1						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2005		1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	7	9.0	1.4	5.6	235	2005		1				1						
Downbound	Domestic	4	823	1642	200.0	35.0	5	9.0	1.6	3.4	260	2005	N	1				1						
Downbound	Domestic	4	705	1687	200.0	35.0	8	9.0	1.3	6.7	146	2005		1				1						
Downbound	Domestic	4	000705	1612	200.0	35.0	8	9.0	1.6	6.4	160	2005		1				1						
Downbound	Domestic	4	889	1464	195.1	35.2	8	9.0	1.8	6.2	155	2005		1				1						
Downbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2005		1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2005		1				1						
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2005		10		10								
Downbound	Domestic	4	856	2312	200.0	35.0	2	12.0	1.5	0.5	217	2005		1								1		
Downbound	Domestic	4	888	1475	195.0	35.0	2	9.0	1.6	0.4	206	2005		5								5		
Downbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2005		1		1								
Downbound	Domestic	5	1106	1800	175.0	54.0	9	10.0	2.0	7.0	170	2005		1						1				
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2005		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2005		17								17		
Downbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.0	7.0	180	2005		4				4						
Downbound	Domestic	5	1714	2700	250.0	50.0	6	9.0	2.0	4.0	160	2005		1						1				
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2005		3								3		
Downbound	Domestic	4	945	1424	195.0	35.0	2	9.0	1.9	0.1	190	2005		1								1		
Downbound	Domestic	4	546	1900	200.0	35.0	2	9.0	2.0	0.0	190	2005		1								1		
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2005		1		1								
Downbound	Domestic	4	823	1642	200.0	35.0	2	9.0	1.6	0.4	260	2005		4								4		
Downbound	Domestic	4	890	1501	195.0	35.0	2	9.0	1.7	0.3	200	2005		1								1		
Downbound	Domestic	4	933	1666	200.0	35.0	9	9.0	1.4	7.6	185	2005		2				2						
Downbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2005		9								9		
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2005		5				5						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2005		6				6						
Downbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2005		5				5						
Downbound	Domestic	4	902	1643	200.0	35.0	9	9.6	1.5	7.5	194	2005		1				1						
Downbound	Domestic	4	687	1534	195.0	35.0	7	9.0	1.5	5.5	145	2005		1				1						
Downbound	Domestic	4	000705	1647	200.0	35.0	8	9.0	1.5	6.5	205	2005		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2005		4				4						
Downbound	Domestic	4	706	1659	200.0	35.0	7	9.0	1.5	5.5	160	2005		1				1						
Downbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2005		1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2005		2				2						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2005		2				2						
Downbound	Domestic	3	232	999999	110.0	32.0	8	8.6	7.5	0.5	350	2005		7		7								
Downbound	Domestic	5	884	1528	195.0	35.0	2	9.0	1.6	0.4	170	2005		1										1
Downbound	Domestic	4	696	1643	200.0	35.0	2	9.0	1.5	0.5	192	2005		1								1		
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	189	2005		3								3		
Downbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2005		1								1		
Downbound	Domestic	4	695	1520	200.0	35.0	2	9.0	1.7	0.3	160	2005	N	1								1		
Downbound	Domestic	4	196	412	61.6	31.2	2	8.6	1.6	0.4	130	2005		1								1		
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2005		1				1						
Downbound	Domestic	5	798	1600	195.0	35.0	9	10.0	1.5	7.5	165	2005		3						3				
Downbound	Domestic	5	773	1350	195.0	35.0	2	9.0	2.0	0.0	166	2005		1										1
Downbound	Domestic	4	833	1524	195.0	35.0	2	9.0	1.6	0.4	185	2005		2								2		
Downbound	Domestic	4	783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2005		4								4		
Downbound	Domestic	4	471	1510	195.0	35.0	2	9.0	1.6	0.4	119	2005		1								1		
Downbound	Domestic	4	676	1500	195.0	35.0	2	9.0	2.0	0.0	162	2005		5								5		
Downbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2005		7								7		
Downbound	Domestic	4	629	1500	200.0	35.0	2	9.0	1.6	0.4	149	2005		1								1		
Downbound	Domestic	3	163	999999	116.0	31.0	2	9.0	7.6	-5.6	320	2005		1		1								
Downbound	Domestic	4	687	1571	195.0	35.0	2	9.0	1.4	0.6	145	2005		1								1		
Downbound	Domestic	4	696	1600	200.0	35.0	2	9.0	1.5	0.5	190	2005		1								1		
Downbound	Domestic	4	000687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2005		1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	180	2005		2				2						
Downbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.6	6.4	180	2005		4				4						
Downbound	Domestic	4	000764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2005		1				1						
Downbound	Domestic	4	000687	1531	195.0	35.0	8	9.0	1.6	6.4	145	2005		1				1						
Downbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2005		2				2						
Downbound	Domestic	4	745	1485	195.0	35.0	9	9.0	1.8	7.2	225	2005		1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2005		3				3						
Downbound	Domestic	4	1206	2542	200.0	50.0	2	11.0	2.5	-0.5	108	2005		1								1		
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2005		5								5		
Downbound	Domestic	5	1306	3740	300.0	54.0	2	9.0	2.0	0.0	190	2005		2										2
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2005		2								2		
Downbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2005		17		17								
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	2.0	0.0	16	2005		1								1		
Downbound	Domestic	4	726	1646	200.0	35.0	2	9.0	1.5	0.5	191	2005		1								1		
Downbound	Domestic	4	743	1640	200.0	35.0	8	9.0	2.0	6.0	165	2005		1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2005		7				7						
Downbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2005		1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2005		3				3						
Downbound	Domestic	4	931	1655	200.0	35.0	8	9.0	1.5	6.5	190	2005		1				1						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2005		1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	8	9.0	1.4	6.6	132	2005		2				2						
Downbound	Domestic	4	543	1507	195.0	35.0	8	9.0	1.6	6.4	183	2005		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2005		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	917	1659	200.0	35.0	8	9.0	1.5	6.5	180	2005		1				1						
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2005	N	2				2						
Downbound	Domestic	4	687	1510	195.0	35.0	8	9.0	1.6	6.4	119	2005		1				1						
Downbound	Domestic	5	766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2005		1										1
Downbound	Domestic	4	690	1474	195.0	35.0	2	9.0	1.8	0.2	176	2005		1								1		
Downbound	Domestic	4	774	1450	195.0	35.0	2	9.0	1.5	0.5	190	2005		4								4		
Downbound	Domestic	5	1619	4337	297.0	54.0	2	12.0	2.0	0.0	240	2005		6										6
Downbound	Domestic	4	823	2398	200.0	35.0	2	13.0	2.0	0.0	165	2005		7								7		
Downbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.6	0.4	165	2005		1								1		
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2005		1				1						
Downbound	Domestic	5	1301	2445	200.0	52.5	9	9.0	1.5	7.5	170	2005		1						1				
Downbound	Domestic	4	684	1526	195.0	35.0	8	9.0	1.6	6.4	160	2005		1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2005		1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2005		1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2005		4				4						
Downbound	Domestic	4	882	1518	195.0	35.0	8	9.0	1.6	6.4	180	2005		1				1						
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	1.8	0.2	165	2005		1										1
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	190	2005		1								1		
Downbound	Domestic	3	178	999999	96.2	29.1	7	7.7	6.2	0.8	410	2005		1		1								
Downbound	Domestic	4	783	1902	195.0	35.0	1	11.0	1.9	-0.9	199	2005		3								3		
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2005		2								2		
Downbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2005		1										1
Downbound	Domestic	4	764	1615	200.0	35.0	2	9.0	1.6	0.4	225	2005	N	1								1		
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2005		6				6						
Downbound	Domestic	4	764	1603	200.0	35.0	8	9.0	1.5	6.5	170	2005		4				4						
Downbound	Domestic	4	764	1617	200.0	35.0	8	9.0	1.4	6.6	160	2005		1				1						
Downbound	Domestic	4	700	1526	195.0	35.0	9	9.0	1.6	7.4	160	2005		1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2005		7										7
Downbound	Domestic	4	745	1504	195.0	35.0	2	9.0	1.6	0.4	166	2005		1								1		
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2005		2										2
Downbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2005		3								3		
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2005		4								4		
Downbound	Domestic	4	1039	1623	200.0	35.0	2	9.0	1.7	0.3	146	2005		1								1		
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2006		2			2							
Upbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2006		6			6							
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2006	N	2			2							
Upbound	Domestic	4	700	1487	195.0	35.0	10	11.0	1.8	8.2	180	2006		2			2							
Upbound	Domestic	4	823	2187	200.0	35.0	8	12.0	1.7	6.3	240	2006		1			1							
Upbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2006		5			5							
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	1			1							
Upbound	Domestic	4	933	1666	200.0	35.0	8	9.0	1.4	6.6	185	2006	N	2			2							
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2006	N	9			9							
Upbound	Domestic	4	735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2006	N	5			5							
Upbound	Domestic	4	676	1498	195.0	35.0	8	9.0	1.7	6.3	160	2006	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2006	N	3			3							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2006	N	2			2							
Upbound	Domestic	4	975	1449	195.0	35.0	9	9.0	1.9	7.1	203	2006	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	216	2006	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2006		8			8							
Upbound	Domestic	4	687	1633	195.0	35.0	7	9.0	1.4	5.6	133	2006		1			1							
Upbound	Domestic	4	706	1600	200.0	35.0	8	9.0	1.4	6.6	155	2006	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2006	N	1			1							
Upbound	Domestic	4	676	1725	195.0	35.0	9	10.0	1.9	7.1	200	2006	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2006		1			1							
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2006		30		30								
Upbound	Domestic	5	925	2500	170.0	54.0	2	9.0	2.0	0.0	180	2006	N	2									2	
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2006		12			12							
Upbound	Domestic	4	823	2304	200.0	35.0	8	10.0	1.7	6.3	190	2006		1			1							
Upbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2006		2			2							
Upbound	Domestic	4	687	2061	195.0	35.0	6	9.0	1.5	4.5	160	2006		3			3							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2006		5			5							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2006		3			3							
Upbound	Domestic	4	823	2100	200.0	35.0	5	11.8	2.0	3.0	240	2006		1			1							
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2006	N	5			5							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2006	N	1			1							
Upbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2006	N	3			3							
Upbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2006	N	1			1							
Upbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	1			1							
Upbound	Domestic	5	1754	42440	297.5	54.0	9	11.0	1.5	7.5	200	2006	N	1					1					
Upbound	Domestic	4	823	2732	200.0	35.0	8	14.0	2.0	6.0	191	2006	N	1			1							
Upbound	Domestic	4	909	1442	195.0	35.0	9	9.0	1.9	7.1	203	2006		1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2006		1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2006		11			11							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2006	N	4			4							
Upbound	Domestic	4	000764	1648	200.0	35.0	8	13.0	1.5	6.5	208	2006	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2006	N	7			7							
Upbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2006	N	4			4							
Upbound	Domestic	4	975	1449	195.0	35.0	8	9.0	1.9	6.1	203	2006	N	2			2							
Upbound	Domestic	4	000706	1534	200.0	35.0	7	9.0	1.8	5.2	205	2006	N	2			2							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006		1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	7	9.0	1.5	5.5	160	2006		1			1							
Upbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2006		3		3								
Upbound	Domestic	4	764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2006	N	1							1			
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2006		26		26								
Upbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2006		1			1							
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.9	6.1	142	2006		1					1					
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2006		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	5	9.0	1.6	3.4	205	2006		1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2006	N	3			3							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2006	N	1			1							
Upbound	Domestic	4	1013	1508	195.0	35.0	8	8.7	1.7	6.3	145	2006	N	1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2006	N	2			2							
Upbound	Domestic	4	000687	1476	195.0	35.0	7	9.0	1.7	5.3	205	2006	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2006		1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2006		1							1			
Upbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2006		3		3								
Upbound	Domestic	4	950	1650	200.0	35.0	8	9.0	1.5	6.5	190	2006		2			2							
Upbound	Domestic	4	000745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2006		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2006		1			1							
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2006		1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2006	N	3			3							
Upbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2006	N	2			2							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	225	2006	N	1					1					
Upbound	Domestic	4	802	1670	200.0	35.0	6	9.0	2.0	4.0	139	2006		1			1							
Upbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2006	N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2006		1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2006		1			1							
Upbound	Domestic	4	206	414	61.6	31.2	8	8.9	1.9	6.1	125	2006		3			3							
Upbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2006		1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2006		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2006	N	4			4							
Upbound	Domestic	4	745	1504	195.0	35.0	9	9.0	1.6	7.4	166	2006	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2006	N	1			1							
Upbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2006	N	1			1							
Upbound	Domestic	4	966	1629	200.0	35.0	8	9.0	1.7	6.3	178	2006	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2006	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	740	1578	200.0	35.0	7	9.0	1.9	5.1	183	2006	N	1					1					
Upbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.6	5.4	149	2006		3			3							
Upbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.6	5.4	225	2006		1			1							
Upbound	Domestic	5	001841	3200	290.0	54.0	2	10.0	2.0	0.0	220	2006		3									3	
Upbound	Domestic	4	888	1529	195.0	35.0	8	9.0	1.5	6.5	160	2006		9			9							
Upbound	Domestic	4	676	1501	195.0	35.0	9	9.0	1.6	7.4	168	2006		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2006		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2006		1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2006	N	1					1					
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2006	N	4			4							
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2006	N	6			6							
Upbound	Domestic	4	933	1527	195.0	35.0	11	11.0	1.5	9.5	199	2006	N	2			2							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2006	N	1			1							
Upbound	Domestic	4	000687	1571	195.0	35.0	6	9.0	1.4	4.6	145	2006	N	1			1							
Upbound	Domestic	4	764	1607	200.0	35.0	8	9.0	1.4	6.6	205	2006	N	1			1							
Upbound	Domestic	4	883	1496	195.0	35.0	9	9.0	1.6	7.4	180	2006	N	1			1							
Upbound	Domestic	4	705	1667	200.0	35.0	7	9.0	1.7	5.3	170	2006		1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2006		1			1							
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2006	N	1			1							
Upbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2006		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2006		2			2							
Upbound	Domestic	5	1038	2000	155.1	54.0	1	10.0	2.0	-1.0	180	2006		7									7	
Upbound	Domestic	5	1961	3500	297.5	54.0	2	8.5	2.0	0.0	100	2006		8									8	
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2006		16		16								
Upbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2006		1					1					
Upbound	Domestic	4	933	1527	195.0	35.0	9	9.0	1.5	7.5	199	2006		1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	7	9.0	1.6	5.4	154	2006		2			2							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2006		1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	9	9.0	1.6	7.4	205	2006	N	2			2							
Upbound	Domestic	4	531	1535	195.0	35.0	5	9.0	1.5	3.5	192	2006		1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2006	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	180	2006		1			1							
Upbound	Domestic	4	696	1500	195.1	35.0	8	9.0	1.6	6.4	149	2006	N	3			3							
Upbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2006	N	4			4							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2006	N	5			5							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2006	N	6			6							
Upbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2006	N	2							2			
Upbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2006		2			2							
Upbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2006		3			3							
Upbound	Domestic	4	910	1449	195.0	35.0	8	9.0	1.9	6.1	203	2006		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2006		4			4							
Upbound	Domestic	4	676	1498	195.0	35.0	8	9.0	1.7	6.3	160	2006		1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2006		2			2							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	15			15							
Upbound	Domestic	4	705	1500	200.0	35.0	9	9.0	1.5	7.5	120	2006		2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2006	N	6			6							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.6	6.4	155	2006	N	2			2							
Upbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2006	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2006		1			1							
Upbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2006		1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2006		2			2							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	120	2006		2					2					
Upbound	Domestic	4	000764	2300	200.0	35.0	3	13.0	1.6	1.4	165	2006		1							1			
Upbound	Domestic	5	890	1590	200.0	35.0	7	9.0	1.9	5.1	142	2006		1					1					
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2006	N	6			6							
Upbound	Domestic	5	000795	1478	195.0	35.0	8	9.0	1.8	6.2	178	2006		1					1					
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2006	N	12			12							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2006		1			1							
Upbound	Domestic	4	206	414	61.6	31.2	8	9.0	2.0	6.0	125	2006		1			1							
Upbound	Domestic	5	001619	3142	297.0	54.0	10	10.0	0.6	9.4	280	2006		2					2					
Upbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2006	N	1							1			
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2006		2			2							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2006	N	1			1							
Upbound	Domestic	5	1803	2500	295.0	52.0	2	9.0	2.5	-0.5	340	2006		1									1	
Upbound	Domestic	3	58	85	46.7	28.0	10	9.3	9.3	0.7	260	2006		9		9								
Upbound	Domestic	4	933	1527	195.0	35.0	9	12.0	1.5	7.5	199	2006		2			2							
Upbound	Domestic	4	700	1730	195.0	35.0	10	12.0	1.5	8.5	190	2006		1			1							
Upbound	Domestic	4	745	2345	195.0	35.0	7	13.0	1.6	5.4	209	2006		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	6	9.0	1.8	4.2	225	2006		4			4							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	187	2006	N	1			1							
Upbound	Domestic	4	750	1500	200.0	35.0	8	9.0	1.4	6.6	149	2006	N	1			1							
Upbound	Domestic	4	867	1503	195.1	35.0	7	9.0	1.9	5.1	129	2006		1			1							
Upbound	Domestic	5	2482	2203	294.0	50.0	2	9.0	2.0	0.0	300	2006	N	3									3	
Upbound	Domestic	4	676	1500	195.0	35.0	9	9.0	2.0	7.0	162	2006		3			3							
Upbound	Domestic	4	000764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2006	N	1			1							
Upbound	Domestic	4	823	2279	200.0	35.0	6	7.6	1.6	4.4	160	2006		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	6	9.0	1.5	4.5	189	2006		2			2							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2006		3			3							
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2006		2			2							
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2006		1			1							
Upbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2006	N	6			6							
Upbound	Domestic	5	000891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2006	N	1					1					
Upbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2006	N	1			1							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2006		1			1							
Upbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2006		1			1							
Upbound	Domestic	3	130	999999	74.0	30.0	11	11.0	11.0	0.0	400	2006		1		1								
Upbound	Domestic	4	823	2600	200.0	35.0	7	14.0	1.7	5.3	231	2006		1			1							
Upbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2006	N	2			2							
Upbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2006	N	4									4	
Upbound	Domestic	4	000764	2200	200.0	35.0	9	11.0	2.0	7.0	165	2006		1			1							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2006	N	2			2							
Upbound	Domestic	4	564	1619	200.0	35.0	7	9.0	1.6	5.4	160	2006	N	1			1							
Upbound	Domestic	4	705	1880	200.0	35.0	6	10.0	1.4	4.6	140	2006		1			1							
Upbound	Domestic	5	774	1379	195.0	35.0	9	8.6	1.6	7.4	175	2006		1					1					
Upbound	Domestic	4	000784	1800	200.0	35.0	5	9.0	2.0	3.0	130	2006	N	1			1							
Upbound	Domestic	4	799	1887	200.0	35.0	7	10.0	1.4	5.6	149	2006		1			1							
Upbound	Domestic	4	1056	1659	200.0	35.0	8	9.0	1.5	6.5	185	2006	N	1			1							
Upbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2006		4		4								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2006		2									2	
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2006		28		28								
Upbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2006		3		3								
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2006		20			20							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006	N	19			19							
Upbound	Domestic	4	000687	1534	200.0	35.0	7	9.0	1.6	5.4	160	2006		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2006		5			5							
Upbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2006		2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	6	9.0	1.6	4.4	154	2006		1			1							
Upbound	Domestic	5	001754	4329	297.5	54.0	10	13.0	2.0	8.0	176	2006		3					3					
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2006		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	6	9.0	1.5	4.5	180	2006	N	1			1							
Upbound	Domestic	5	759	1578	200.0	35.0	8	9.0	1.9	6.1	164	2006	N	1					1					
Upbound	Domestic	4	578	1531	195.0	35.0	8	9.0	1.6	6.4	140	2006		1			1							
Upbound	Domestic	4	705	1667	200.0	35.0	8	9.0	1.7	6.3	170	2006		1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2006		1			1							
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2006		1									1	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2006	N	2									2	
Upbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2006		1			1							
Upbound	Domestic	4	696	1643	200.0	35.0	9	9.0	1.5	7.5	185	2006		1			1							
Upbound	Domestic	4	705	1859	200.0	35.0	8	10.0	2.0	6.0	165	2006		2			2							
Upbound	Domestic	4	676	1397	195.0	35.0	9	9.0	1.6	7.4	160	2006		1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2006		4			4							
Upbound	Domestic	4	764	1528	200.0	35.0	5	9.0	1.7	3.3	163	2006		1			1							
Upbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2006		2			2							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2006		13			13							
Upbound	Domestic	4	564	1619	200.0	35.0	9	9.0	1.6	7.4	160	2006	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2006	N	3			3							
Upbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2006	N	8			8							
Upbound	Domestic	4	000823	2300	200.0	35.0	7	13.0	1.6	5.4	165	2006		1			1							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2006	N	2			2							
Upbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2006	N	3			3							
Upbound	Domestic	4	574	1526	195.0	35.0	7	9.0	1.6	5.4	140	2006		1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	7	9.0	1.4	5.6	148	2006		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	15			15							
Upbound	Domestic	4	1020	1854	200.0	35.0	1	10.0	1.6	-0.6	167	2006	N	1							1			
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2006		1									1	
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2006		1		1								
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2006		24		24								
Upbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2006		2			2							
Upbound	Domestic	4	196	375	61.5	31.0	9	9.0	2.0	7.0	130	2006		1			1							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	193	2006		3			3							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2006		2			2							
Upbound	Domestic	4	676	1511	195.0	35.0	9	9.0	1.6	7.4	192	2006		1			1							
Upbound	Domestic	4	000910	1659	200.0	35.0	7	9.0	1.5	5.5	194	2006		1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	7	9.0	1.5	5.5	155	2006		1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.5	7.5	190	2006		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.4	7.6	16	2006		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006	N	4			4							
Upbound	Domestic	4	764	1990	200.0	35.0	7	11.0	4.0	3.0	170	2006		2			2							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2006	N	1			1							
Upbound	Domestic	4	000687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	8			8							
Upbound	Domestic	4	687	1522	195.0	35.0	8	9.0	1.6	6.4	165	2006	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2006		1			1							
Upbound	Domestic	5	1593	3240	298.0	54.0	1	12.0	1.8	-0.8	185	2006		1									1	
Upbound	Domestic	3	000199	293	87.0	28.0	7	8.5	7.0	0.0	420	2006		2		2								
Upbound	Domestic	3	62	999999	85.6	27.4	7	8.0	6.5	0.5	149	2006		3		3								
Upbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.8	7.2	190	2006		1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.6	6.4	206	2006		15			15							
Upbound	Domestic	4	196	412	61.6	31.2	9	9.0	2.0	7.0	125	2006		1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2006		1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2006		1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2006		1			1							
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2006	N	5					5					
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2006		1			1							
Upbound	Domestic	5	750	1400	195.0	35.0	9	8.6	1.6	7.4	160	2006		2					2					
Upbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2006	N	6			6							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	145	2006	N	2			2							
Upbound	Domestic	4	764	1611	200.0	35.0	6	9.0	1.7	4.3	225	2006	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	150	2006		1			1							
Upbound	Domestic	4	710	1400	195.0	35.0	9	9.2	1.6	7.4	139	2006		1			1							
Upbound	Domestic	4	764	1647	200.0	35.0	7	9.0	1.2	5.8	165	2006	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	7	10.0	1.5	5.5	149	2006		2			2							
Upbound	Domestic	4	687	1586	195.0	35.0	6	9.0	1.4	4.6	148	2006		1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2006	N	2			2							
Upbound	Domestic	4	799	1893	200.0	35.0	8	10.0	1.4	6.6	149	2006		1			1							
Upbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2006	N	2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2006		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2006	N	2			2							
Upbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2006	N	1			1							
Upbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2006	N	1							1			
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2006		16			16							
Upbound	Domestic	4	205	414	61.5	31.2	8	9.0	1.5	6.5	125	2006		1			1							
Upbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.6	6.4	180	2006		1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2006		1			1							
Upbound	Domestic	4	910	1506	195.1	35.1	8	9.0	1.7	6.3	145	2006	N	1			1							
Upbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	225	2006	N	1			1							
Upbound	Domestic	4	000913	1532	200.0	35.0	10	9.6	1.5	8.5	145	2006	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2006	N	2			2							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2006	N	9			9							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2006		3		3								
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2006		1			1							
Upbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2006	N	4									4	
Upbound	Domestic	4	1020	1020	200.0	35.0	9	12.0	1.6	7.4	149	2006		1			1							
Upbound	Domestic	4	206	414	61.5	31.2	8	9.0	1.5	6.5	125	2006		1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2006		2			2							
Upbound	Domestic	4	196	375	61.6	31.2	8	9.0	2.0	6.0	125	2006		1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2006		1					1					
Upbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2006		1			1							
Upbound	Domestic	4	687	2000	195.0	35.0	8	9.0	1.7	6.3	160	2006	N	1			1							
Upbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2006	N	7			7							
Upbound	Domestic	4	764	2073	200.0	35.0	9	11.6	1.6	7.4	250	2006		1			1							
Upbound	Domestic	4	471	1510	195.0	35.0	7	9.0	1.6	5.4	119	2006		1			1							
Upbound	Domestic	4	764	1607	200.0	35.0	6	9.0	1.4	4.6	165	2006	N	1			1							
Upbound	Domestic	4	802	2107	195.0	35.0	8	12.0	1.6	6.4	214	2006		2			2							
Upbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2006	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2006		2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	7	10.0	1.4	5.6	205	2006	N	1			1							
Upbound	Domestic	4	848	1536	195.0	35.0	8	9.0	1.6	6.4	160	2006		1			1							
Upbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2006		2					2					
Upbound	Domestic	4	933	1666	200.0	35.0	9	9.0	1.4	7.6	185	2006		1			1							
Upbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2006		1			1							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	210	2006		1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2006		1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2006		1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2006		3			3							
Upbound	Domestic	5	822	1400	195.0	35.0	8	9.0	1.3	6.7	178	2006		1					1					
Upbound	Domestic	4	630	1450	195.0	35.0	6	8.0	1.5	4.5	136	2006		1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2006	N	8			8							
Upbound	Domestic	5	891	1580	200.0	35.0	8	9.0	1.9	6.1	142	2006	N	3					3					
Upbound	Domestic	4	705	1617	200.0	35.0	7	9.0	1.6	5.4	205	2006	N	1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2006	N	1			1							
Upbound	Domestic	4	745	1504	195.0	35.0	7	9.0	1.6	5.4	166	2006	N	1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	8	14.0	1.6	6.4	211	2006		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	6	9.0	1.5	4.5	208	2006	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2006	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	6	10.0	1.4	4.6	149	2006		1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	6	9.0	1.5	4.5	155	2006	N	1			1							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2006		1			1							
Upbound	Domestic	5	2223	3400	297.5	54.0	2	10.0	2.0	0.0	180	2006		9									9	
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2006		3			3							
Upbound	Domestic	4	1206	2542	200.0	50.0	9	11.0	2.5	6.5	108	2006		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000745	1515	195.0	35.0	8	9.0	1.5	6.5	160	2006		1			1							
Upbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2006		2			2							
Upbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2006	N	1			1							
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2006		1									1	
Upbound	Domestic	5	2435	2477	294.0	50.0	2	9.2	2.7	-0.7	318	2006	N	2									2	
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2006	N	2			2							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2006		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2006		1			1							
Upbound	Domestic	4	676	1511	195.0	35.0	8	9.0	1.6	6.4	192	2006		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2006		7			7							
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2006		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2006	N	4			4							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2006	N	2			2							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2006		3			3							
Upbound	Domestic	4	700	1529	195.0	35.0	8	9.0	1.6	6.4	194	2006	N	1			1							
Upbound	Domestic	5	2482	2208	294.0	50.0	2	9.0	2.0	0.0	300	2006	N	3									3	
Upbound	Domestic	4	1020	1544	200.0	35.0	9	9.0	1.5	7.5	135	2006		1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2006		20					20					
Upbound	Domestic	4	676	1500	195.0	35.0	8	9.0	2.0	6.0	162	2006		6			6							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	180	2006		1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2006		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	6	9.0	1.8	4.2	225	2006	N	2			2							
Upbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2006	N	1			1							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2006	N	6			6							
Upbound	Domestic	4	676	1511	195.0	35.0	8	9.0	1.6	6.4	192	2006	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2006		2			2							
Upbound	Domestic	4	687	1476	195.0	35.0	8	9.0	1.7	6.3	160	2006	N	1			1							
Upbound	Domestic	4	687	2061	195.0	35.0	6	9.0	1.5	4.5	160	2006	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2006	N	2			2							
Upbound	Domestic	4	687	1510	195.0	35.0	9	9.0	1.6	7.4	119	2006		1			1							
Upbound	Domestic	4	705	2077	200.0	35.0	8	11.0	1.0	7.0	120	2006		1			1							
Upbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2006		1		1								
Upbound	Domestic	5	848	1400	195.0	35.0	8	9.5	1.8	6.2	170	2006		1					1					
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2006		2			2							
Upbound	Domestic	4	1033	1600	200.0	35.0	8	9.0	1.6	6.4	170	2006	N	2			2							
Upbound	Domestic	4	764	1631	200.0	35.0	8	9.0	1.2	6.8	165	2006	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2006		1			1							
Upbound	Domestic	5	835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2006	N	2					2					
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2006	N	5			5							
Upbound	Domestic	4	764	1560	200.0	35.0	6	9.0	1.6	4.4	225	2006	N	1			1							
Upbound	Domestic	4	695	1532	195.0	35.0	8	9.0	1.5	6.5	146	2006	N	2			2							
Upbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	145	2006	N	1			1							
Upbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2006		1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2006	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2006	N	1							1			
Upbound	Domestic	4	823	2178	200.0	35.0	9	12.0	1.8	7.2	225	2006		1			1							
Upbound	Domestic	4	000764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2006	N	1							1			
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2006		4			4							
Upbound	Domestic	4	823	2305	200.0	35.0	9	13.6	1.8	7.2	190	2006		1			1							
Upbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2006		1			1							
Upbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2006		1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2006		3			3							
Upbound	Domestic	4	705	1650	200.0	35.0	8	12.0	1.5	6.5	195	2006	N	3			3							
Upbound	Domestic	4	833	1626	195.0	35.0	9	9.6	1.6	7.4	190	2006	N	1			1							
Upbound	Domestic	4	685	1728	195.0	35.0	8	10.0	1.6	6.4	176	2006	N	1			1							
Upbound	Domestic	4	802	1660	200.0	35.0	8	9.0	2.0	6.0	139	2006		1			1							
Upbound	Domestic	4	823	2300	200.0	35.0	8	12.0	1.6	6.4	150	2006		1			1							
Upbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2006	N	5									5	
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2006		5			5							
Upbound	Domestic	5	001754	3390	297.5	54.0	9	12.0	2.0	7.0	180	2006		1					1					
Upbound	Domestic	4	196	375	61.6	31.2	9	9.0	2.0	7.0	125	2006		9			9							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2006		1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	192	2006		6			6							
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2006		3			3							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	1			1							
Upbound	Domestic	5	818	1638	195.0	35.0	8	10.0	1.8	6.2	160	2006		1					1					
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2006	N	2			2							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2006	N	2			2							
Upbound	Domestic	4	735	1500	200.1	35.0	8	9.0	1.6	6.4	149	2006	N	4			4							
Upbound	Domestic	4	705	1727	200.0	35.0	9	9.0	1.1	7.9	146	2006	N	1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2006	N	1			1							
Upbound	Domestic	4	1024	1426	195.0	35.0	9	9.0	1.9	7.1	220	2006	N	1			1							
Upbound	Domestic	4	764	1517	200.0	35.0	7	9.0	1.9	5.1	225	2006	N	2			2							
Upbound	Domestic	4	985	1531	195.0	35.0	8	9.0	1.6	6.4	160	2006	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.6	6.4	160	2006		1			1							
Upbound	Domestic	5	001841	3200	290.0	54.0	10	10.0	2.0	8.0	220	2006		1					1					
Upbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2006	N	1							1			
Upbound	Domestic	4	823	2403	200.0	35.0	9	12.6	1.7	7.3	190	2006		3			3							
Upbound	Domestic	4	690	1500	195.0	35.0	9	9.0	1.6	7.4	149	2006		1			1							
Upbound	Domestic	4	196	412	61.6	31.2	8	8.6	1.6	6.4	130	2006		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	180	2006		1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2006		2			2							
Upbound	Domestic	4	000695	1496	195.0	35.0	8	9.0	1.8	6.2	146	2006	N	1			1							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	160	2006	N	1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	9	9.0	1.5	7.5	145	2006		1			1							
Upbound	Domestic	4	676	1725	195.0	35.0	1	10.0	1.6	-0.6	200	2006	N	1							1			
Upbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	1			1							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2006		7									7	
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2006		21		21								
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2006		14		14								
Upbound	Domestic	3	533	999999	140.0	42.0	6	8.6	6.6	-0.6	430	2006		2		2								
Upbound	Domestic	4	700	1487	195.0	35.0	10	11.0	1.7	8.3	180	2006		2			2							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2006		15			15							
Upbound	Domestic	4	687	1450	195.0	35.0	8	9.0	1.6	6.4	166	2006		2			2							
Upbound	Domestic	4	705	1875	200.0	35.0	6	10.0	1.4	4.6	191	2006		1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2006		1			1							
Upbound	Domestic	4	000745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2006		1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	145	2006		1			1							
Upbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2006	N	3			3							
Upbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2006	N	2			2							
Upbound	Domestic	4	764	1558	200.0	35.0	6	9.0	1.5	4.5	160	2006		1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	190	2006	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2006		1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	6	9.0	1.5	4.5	225	2006	N	1			1							
Upbound	Domestic	4	1081	1676	200.0	35.0	8	9.0	1.3	6.7	146	2006	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2006		1			1							
Upbound	Domestic	3	203	999999	100.0	30.0	9	9.0	9.0	0.0	450	2006		1		1								
Upbound	Domestic	3	000255	375	110.0	34.0	8	8.0	7.5	0.5	380	2006		1		1								
Upbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2006		2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	9	10.0	1.5	7.5	199	2006		1			1							
Upbound	Domestic	4	823	2732	200.0	35.0	6	14.0	2.0	4.0	191	2006		1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	155	2006		1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2006		2			2							
Upbound	Domestic	4	764	1528	200.0	35.0	8	10.0	1.7	6.3	163	2006		1			1							
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.1	6.9	142	2006		2					2					

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	145	2006		1			1							
Upbound	Domestic	4	687	1531	195.0	35.0	8	9.0	1.6	6.4	145	2006	N	1			1							
Upbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2006		1			1							
Upbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2006		1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2006		1			1							
Upbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2006	N	3			3							
Upbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2006		1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2006		1			1							
Upbound	Domestic	4	952	1500	200.0	35.0	9	10.7	1.6	7.4	149	2006		2			2							
Upbound	Domestic	4	000705	1692	200.0	35.0	7	9.0	1.2	5.8	145	2006		1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2006		6			6							
Upbound	Domestic	4	889	1464	195.1	35.2	9	9.0	1.8	7.2	194	2006		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2006		1			1							
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2006	N	8			8							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2006	N	4			4							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2006		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	4			4							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2006	N	4			4							
Upbound	Domestic	4	888	1500	195.0	35.0	8	12.0	2.0	6.0	149	2006	N	4			4							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2006		1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	7	10.0	1.6	5.4	204	2006	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2006	N	3			3							
Upbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2006	N	1			1							
Upbound	Domestic	3	200	999999	114.8	30.0	8	8.6	7.0	1.0	340	2006		1		1								
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2006		8		8								
Upbound	Domestic	5	2502	2902	295.0	50.0	2	9.0	2.5	-0.5	290	2006	N	2									2	
Upbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2006		2			2							
Upbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2006		5			5							
Upbound	Domestic	4	743	1651	200.0	35.0	9	9.0	1.6	7.4	180	2006		1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2006		1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2006		2			2							
Upbound	Domestic	5	773	1400	195.0	35.0	9	9.0	2.0	7.0	180	2006		1					1					
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2006		2			2							
Upbound	Domestic	5	759	1578	200.0	35.0	8	9.0	1.9	6.1	164	2006		3					3					
Upbound	Domestic	5	000795	1478	195.0	35.0	9	9.0	1.8	7.2	178	2006		2					2					
Upbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2006	N	3			3							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2006	N	4			4							
Upbound	Domestic	4	848	1524	195.0	35.0	8	9.0	1.6	6.4	185	2006	N	2			2							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2006	N	14			14							
Upbound	Domestic	4	764	1635	200.0	35.0	6	9.0	1.6	4.4	225	2006	N	1			1							
Upbound	Domestic	4	945	1424	195.0	35.0	8	9.0	1.1	6.9	190	2006	N	1			1							
Upbound	Domestic	4	687	1571	195.0	35.0	8	9.0	1.4	6.6	145	2006	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	7	9.0	1.4	5.6	160	2006		3			3							
Upbound	Domestic	4	000729	1673	200.0	35.0	8	9.0	1.4	6.6	160	2006	N	1			1							
Upbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2006	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2006		1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2006	N	1			1							
Upbound	Domestic	4	833	1524	195.0	35.0	9	9.0	1.6	7.4	185	2006	N	1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	8	11.0	1.5	6.5	200	2006	N	1			1							
Upbound	Domestic	4	823	2291	200.0	35.0	8	12.0	1.5	6.5	225	2006		2			2							
Upbound	Domestic	5	805	1433	195.0	35.0	8	9.0	1.1	6.9	166	2006		2					2					
Upbound	Domestic	5	894	1591	200.0	35.0	8	9.0	1.9	6.1	142	2006	N	3					3					
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2006	N	4			4							
Upbound	Domestic	4	833	1524	195.0	35.0	8	9.0	1.6	6.4	185	2006	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2006	N	3							3			
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	4			4							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.6	6.4	155	2006		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.6	7.4	207	2006	N	1			1							
Upbound	Domestic	4	687	1722	195.0	35.0	1	10.0	1.6	-0.6	205	2006	N	1							1			
Upbound	Domestic	4	206	414	61.5	31.2	2	9.0	2.0	0.0	125	2006		6							6			
Upbound	Domestic	4	910	1574	195.0	35.0	8	9.0	1.6	6.4	206	2006		5			5							
Upbound	Domestic	4	000700	1637	200.0	35.0	9	9.0	1.6	7.4	149	2006		2			2							
Upbound	Domestic	4	1013	1508	195.0	35.0	9	9.0	1.7	7.3	145	2006		1			1							
Upbound	Domestic	5	001754	4972	297.5	54.0	6	12.1	1.5	4.5	176	2006		1					1					
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2006		8			8							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	180	2006	N	1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2006		2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2006		2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2006	N	12			12							
Upbound	Domestic	4	206	412	61.6	31.2	8	8.6	1.6	6.4	130	2006		1			1							
Upbound	Domestic	5	780	1450	200.0	35.0	7	9.8	1.8	5.2	160	2006		1					1					
Upbound	Domestic	4	745	1915	195.0	35.0	7	11.0	1.7	5.3	224	2006	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	6	10.0	1.5	4.5	206	2006	N	1			1							
Upbound	Domestic	5	1416	2500	256.5	54.0	2	9.0	1.5	0.5	90	2006		4									4	
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2006		2			2							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2006		1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2006		1			1							
Upbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2006	N	1			1							
Upbound	Domestic	4	764	1497	200.0	35.0	8	9.0	1.9	6.1	205	2006	N	1			1							
Upbound	Domestic	4	889	1424	195.1	35.2	9	9.0	1.1	7.9	194	2006	N	1			1							
Upbound	Domestic	4	1051	1586	200.1	35.1	9	8.7	1.5	7.5	171	2006		1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2006	N	5							5			
Upbound	Domestic	4	764	1603	200.0	35.0	8	9.0	1.5	6.5	170	2006		1			1							
Upbound	Domestic	5	1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2006		10									10	
Upbound	Domestic	3	000334	491	140.0	38.0	9	9.6	8.6	0.4	430	2006		2		2								
Upbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2006		3			3							
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2006		7			7							
Upbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2006		1			1							
Upbound	Domestic	4	971	1524	200.0	35.0	8	9.0	2.1	5.9	193	2006		1			1							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2006		3					3					
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2006	N	1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	9	9.0	1.5	7.5	155	2006	N	2			2							
Upbound	Domestic	4	823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2006		1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2006	N	3			3							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.5	7.5	190	2006	N	1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.5	5.5	205	2006	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2006		1			1							
Upbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2006		1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2006	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2006	N	2			2							
Upbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2006		2			2							
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2006		3			3							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2006		1			1							
Upbound	Domestic	4	922	1669	200.0	35.0	9	9.0	1.5	7.5	206	2006		1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2006	N	1			1							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2006	N	2			2							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	9			9							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2006	N	7					7					
Upbound	Domestic	4	764	1527	200.0	35.0	7	9.0	1.8	5.2	205	2006	N	2			2							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2006	N	1			1							
Upbound	Domestic	5	1754	4254	297.5	54.0	9	11.0	1.5	7.5	200	2006	N	1					1					
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2006		1			1							
Upbound	Domestic	5	741	1481	195.0	35.0	2	10.0	2.0	0.0	170	2006		5									5	
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2006	N	3									3	
Upbound	Domestic	3	000219	322	120.0	35.0	8	10.0	8.0	0.0	290	2006		1		1								
Upbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2006		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2006	N	3			3							
Upbound	Domestic	4	745	1534	195.0	35.0	9	9.0	1.5	7.5	210	2006	N	1			1							
Upbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2006	N	4			4							
Upbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2006	N	4			4							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	7	9.0	1.6	5.4	225	2006	N	1			1							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2006		2			2							
Upbound	Domestic	4	000782	1990	200.0	35.0	7	11.0	4.0	3.0	170	2006		1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2006	N	1			1							
Upbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2006	N	1			1							
Upbound	Domestic	5	798	1490	195.0	35.0	2	9.0	2.0	0.0	170	2006	N	1									1	
Upbound	Domestic	4	711	1732	195.0	35.0	9	10.0	1.6	7.4	192	2006	N	1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2006	N	1							1			
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2006		22		22								
Upbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2006		1			1							
Upbound	Domestic	4	206	414	61.6	31.2	8	8.6	2.0	6.0	125	2006		11			11							
Upbound	Domestic	4	888	1529	195.0	35.0	9	9.0	1.5	7.5	160	2006		2			2							
Upbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2006		5			5							
Upbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2006		1			1							
Upbound	Domestic	4	922	1627	200.0	35.0	9	12.0	1.8	7.2	110	2006		1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	6	10.0	1.7	4.3	190	2006		1			1							
Upbound	Domestic	5	001754	4329	297.5	54.0	9	13.0	2.0	7.0	176	2006		6					6					
Upbound	Domestic	5	001754	4972	297.5	54.0	9	12.1	1.5	7.5	176	2006		3					3					
Upbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2006	N	6			6							
Upbound	Domestic	4	705	1648	200.0	35.0	8	12.0	1.5	6.5	186	2006	N	1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2006	N	12			12							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2006	N	3			3							
Upbound	Domestic	4	888	1518	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	7	11.0	1.7	5.3	223	2006	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.8	6.2	205	2006	N	1			1							
Upbound	Domestic	4	196	375	61.6	31.2	2	9.0	1.8	0.2	125	2006		1							1			
Upbound	Domestic	5	766	1200	135.0	50.0	2	12.0	2.0	0.0	160	2006		2									2	
Upbound	Domestic	4	687	1518	195.0	35.0	8	9.0	2.0	6.0	150	2006		1			1							
Upbound	Domestic	4	848	1500	195.0	35.0	8	9.0	1.6	6.4	149	2006		2			2							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2006		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2006	N	2			2							
Upbound	Domestic	4	654	1720	195.0	35.0	8	10.0	1.6	6.4	176	2006	N	1			1							
Upbound	Domestic	4	687	1510	195.0	35.0	7	9.0	1.6	5.4	119	2006		1			1							
Upbound	Domestic	4	694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2006	N	2			2							
Upbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2006		3									3	
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2006		9		9								
Upbound	Domestic	4	206	414	61.6	31.2	2	8.9	1.9	0.1	125	2006		2							2			
Upbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2006		2			2							
Upbound	Domestic	4	705	1648	200.0	35.0	9	12.0	1.5	7.5	186	2006		1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	7	9.0	1.6	5.4	155	2006	N	2			2							
Upbound	Domestic	4	000764	1648	200.0	35.0	8	13.0	1.5	6.5	208	2006		1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2006		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	166	2006	N	2			2							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2006	N	6			6							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	165	2006	N	1			1							
Upbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2006	N	5									5	
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2006	N	2			2							
Upbound	Domestic	4	705	1880	200.0	35.0	7	10.0	1.4	5.6	140	2006		1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2006	N	1			1							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2006	N	7			7							
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.5	6.5	160	2006	N	1			1							
Upbound	Domestic	4	1006	1902	195.0	35.0	9	11.0	1.9	7.1	199	2006	N	1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	9	11.0	1.8	7.2	210	2006	N	1			1							
Upbound	Domestic	4	676	1534	195.0	35.0	7	9.0	1.6	5.4	160	2006		1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	9	9.0	1.6	7.4	206	2006		2			2							
Upbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	150	2006		1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2006	N	6			6							
Upbound	Domestic	4	531	1535	195.0	35.0	8	9.0	1.5	6.5	192	2006		1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2006		2			2							
Upbound	Domestic	4	705	1647	200.0	35.0	9	9.0	1.4	7.6	205	2006	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	163	2006	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2006		1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2006	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2006		2			2							
Upbound	Domestic	4	600	1650	200.0	35.0	7	9.0	1.5	5.5	208	2006	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2006	N	12			12							
Upbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2006		2			2							
Upbound	Domestic	4	888	1479	195.0	35.0	2	9.0	1.8	0.2	180	2006		1							1			
Upbound	Domestic	3	303	999999	102.5	34.0	7	9.0	7.5	-0.5	440	2006		1		1								
Upbound	Domestic	3	258	999999	107.0	34.1	9	8.7	7.0	2.0	42	2006		1		1								
Upbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2006		2			2							
Upbound	Domestic	4	688	1495	195.0	35.0	9	9.0	1.9	7.1	169	2006		3			3							
Upbound	Domestic	4	676	1515	195.0	35.0	5	9.0	1.5	3.5	150	2006		0			0							
Upbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2006	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2006	N	8			8							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2006		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	7	9.0	1.5	5.5	180	2006	N	1			1							
Upbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2006		1			1							
Upbound	Domestic	4	000687	1474	195.0	35.0	8	9.0	1.8	6.2	145	2006		1			1							
Upbound	Domestic	5	000891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2006		1					1					
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2006		3			3							
Upbound	Domestic	4	799	1887	200.0	35.0	9	10.0	1.4	7.6	149	2006		1			1							
Upbound	Domestic	3	643	999999	145.0	48.0	8	9.0	8.0	0.0	400	2006	N	5		5								
Upbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2006	N	1							1			
Upbound	Domestic	3	204	999999	91.5	32.0	7	7.6	6.0	1.0	436	2006		4		4								
Upbound	Domestic	4	705	1650	200.0	35.0	9	11.0	1.5	7.5	195	2006		1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	191	2006		1			1							
Upbound	Domestic	4	764	1865	200.0	35.0	9	12.0	1.5	7.5	208	2006		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2006		5			5							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2006	N	2			2							
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2006	N	1					1					
Upbound	Domestic	4	000823	1534	200.0	35.0	5	9.0	1.7	3.3	235	2006	N	1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	5			5							
Upbound	Domestic	4	764	1607	200.0	35.0	8	9.0	1.4	6.6	205	2006		1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	9	9.0	1.8	7.2	225	2006		1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	7	10.5	1.7	5.3	180	2006	N	1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2006	N	4			4							
Upbound	Domestic	4	745	1914	195.0	35.0	10	11.0	1.7	8.3	223	2006	N	1			1							
Upbound	Domestic	5	2356	7068	293.0	50.0	2	8.5	2.7	-0.7	320	2006	N	1									1	
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2006		3			3							
Upbound	Domestic	4	764	1504	200.0	35.0	6	9.0	1.8	4.2	189	2006		1			1							
Upbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2006		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	5	13.0	1.6	3.4	165	2006		1			1							
Upbound	Domestic	4	705	1615	200.0	35.0	7	9.0	1.6	5.4	225	2006		1			1							
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2006		2			2							
Upbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	205	2006		2			2							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	225	2006		1					1					
Upbound	Domestic	4	823	2403	200.0	35.0	7	12.6	1.7	5.3	190	2006		1			1							
Upbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	210	2006		1			1							
Upbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2006	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	774	1329	195.0	35.0	2	12.0	2.0	0.0	165	2006	N	1									1	
Upbound	Domestic	4	1072	1667	200.0	35.0	7	9.0	1.5	5.5	183	2006		1			1							
Upbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2006	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	235	2006	N	1			1							
Upbound	Domestic	4	966	1669	200.0	35.0	8	9.0	1.5	6.5	193	2006	N	1			1							
Upbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	1			1							
Upbound	Domestic	4	764	1615	200.0	35.0	7	9.0	1.6	5.4	225	2006	N	1			1							
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2006	N	2			2							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2006	N	1			1							
Upbound	Domestic	4	711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2006	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2006	N	4			4							
Upbound	Domestic	4	907	1733	195.0	35.0	9	10.0	1.6	7.4	200	2006	N	1			1							
Upbound	Domestic	4	925	1870	200.0	35.0	8	10.0	2.0	6.0	90	2006		1			1							
Upbound	Domestic	4	676	1633	195.0	35.0	9	9.6	1.7	7.3	190	2006		1			1							
Upbound	Domestic	4	909	1450	195.0	35.0	8	9.0	1.9	6.1	170	2006		1			1							
Upbound	Domestic	4	705	2002	200.0	35.0	7	9.0	2.0	5.0	190	2006		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006		5			5							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2006		3			3							
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2006	N	9			9							
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2006	N	5			5							
Upbound	Domestic	4	687	2000	195.0	35.0	9	9.0	1.7	7.3	160	2006	N	1			1							
Upbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2006		1			1							
Upbound	Domestic	5	2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2006	N	1									1	
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2006		3			3							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2006		4			4							
Upbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2006		2			2							
Upbound	Domestic	5	894	1591	200.0	35.0	8	9.0	1.9	6.1	142	2006		1					1					
Upbound	Domestic	4	764	1521	200.0	35.0	5	9.0	1.9	3.1	225	2006		1			1							
Upbound	Domestic	4	688	1495	195.0	35.0	8	9.0	1.9	6.1	169	2006	N	1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	7	9.0	1.6	5.4	177	2006	N	1			1							
Upbound	Domestic	4	723	1875	200.0	35.0	8	10.0	1.7	6.3	163	2006	N	1			1							
Upbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2006		1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2006	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	6	9.0	1.5	4.5	170	2006		1			1							
Upbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2006	N	16		16								
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2006		1		1								
Upbound	Domestic	3	108	999999	58.0	22.0	7	7.0	6.5	0.5	340	2006		1		1								
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2006		3			3							
Upbound	Domestic	4	823	2282	200.0	35.0	9	12.6	1.7	7.3	190	2006		1			1							
Upbound	Domestic	4	196	375	61.6	31.2	9	9.0	1.8	7.2	125	2006		8			8							
Upbound	Domestic	4	696	1500	200.0	35.0	9	9.0	1.6	7.4	149	2006		1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2006		1			1							
Upbound	Domestic	4	957	1671	200.0	35.0	8	9.0	1.5	6.5	145	2006		1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2006	N	6			6							
Upbound	Domestic	4	688	2142	195.0	35.0	7	11.0	1.5	5.5	160	2006		1			1							
Upbound	Domestic	4	000700	1637	200.0	35.0	9	9.0	1.6	7.4	149	2006	N	1			1							
Upbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2006		1			1							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2006	N	11			11							
Upbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2006	N	13			13							
Upbound	Domestic	4	971	1524	200.0	35.0	8	9.0	2.1	5.9	193	2006	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2006	N	2			2							
Upbound	Domestic	4	1031	1530	195.0	35.0	8	9.0	1.6	6.4	170	2006	N	1			1							
Upbound	Domestic	4	000705	1617	200.0	35.0	9	9.0	1.6	7.4	205	2006		1			1							
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2006		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2006		2			2							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2006	N	1			1							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	193	2006	N	1			1							
Upbound	Domestic	4	1046	1904	195.0	35.0	1	11.0	1.8	-0.8	191	2006	N	2							2			
Upbound	Domestic	4	907	1733	195.0	35.0	1	10.0	1.6	-0.6	200	2006	N	1							1			
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2006		6			6							
Upbound	Domestic	4	823	2410	200.0	35.0	9	14.0	1.5	7.5	190	2006		3			3							
Upbound	Domestic	4	676	1500	195.0	35.0	8	10.7	1.6	6.4	149	2006		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2006	N	1			1							
Upbound	Domestic	4	888	1500	195.1	35.0	8	9.0	1.6	6.4	149	2006	N	3			3							
Upbound	Domestic	4	471	1510	195.0	35.0	8	9.0	1.6	6.4	119	2006		1			1							
Upbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2006		1			1							
Upbound	Domestic	4	700	1532	195.0	35.0	8	9.0	1.5	6.5	190	2006	N	1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2006	N	1			1							
Upbound	Domestic	4	783	1902	195.0	35.0	9	11.0	1.9	7.1	199	2006	N	2			2							
Upbound	Domestic	5	002424	2213	295.0	50.0	2	9.0	2.5	-0.5	280	2006	N	5									5	
Upbound	Domestic	5	2431	2500	280.0	50.0	2	9.0	2.5	-0.5	220	2006		1									1	
Upbound	Domestic	3	235	999999	99.0	32.0	7	8.5	7.5	-0.5	406	2006		5		5								
Upbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2006		1			1							
Upbound	Domestic	4	986	1477	195.0	35.0	8	9.0	1.7	6.3	205	2006		1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2006		3			3							
Upbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2006		1			1							
Upbound	Domestic	4	687	1574	195.0	35.0	9	9.0	1.3	7.7	145	2006	N	1			1							
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2006	N	20			20							
Upbound	Domestic	4	000687	1476	195.0	35.0	6	9.0	1.7	4.3	205	2006	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2006	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	5	9.0	1.9	3.1	205	2006	N	2			2							
Upbound	Domestic	4	764	1645	200.0	35.0	7	9.0	1.9	5.1	220	2006	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.6	5.4	149	2006	N	1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	9	9.0	1.6	7.4	160	2006	N	1			1							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2006		6			6							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2006	N	1			1							
Upbound	Domestic	4	950	1500	200.0	35.0	8	9.0	1.9	6.1	149	2006	N	3			3							
Upbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2006		1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2006		1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2006		4			4							
Upbound	Domestic	5	773	1600	195.0	35.0	8	9.5	1.8	6.2	186	2006		1					1					
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2006		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	6	9.0	1.5	4.5	180	2006		1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2006		3			3							
Upbound	Domestic	5	740	1578	200.0	35.0	8	9.0	1.9	6.1	183	2006		1					1					
Upbound	Domestic	4	630	1450	195.0	35.0	8	8.0	1.5	6.5	136	2006		1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	7	9.0	1.4	5.6	120	2006		1			1							
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2006	N	2			2							
Upbound	Domestic	5	890	1590	200.0	35.0	9	9.0	1.9	7.1	142	2006	N	1					1					
Upbound	Domestic	5	716	1450	195.0	35.0	7	8.5	2.7	4.3	145	2006		1					1					
Upbound	Domestic	4	823	2280	200.0	35.0	8	12.0	1.8	6.2	224	2006	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2006	N	1			1							
Upbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2006	N	4			4							
Upbound	Domestic	4	687	1494	195.0	35.0	7	9.0	1.7	5.3	165	2006	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	147	2006		3			3							
Upbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2006	N	2							2			
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2006	N	9			9							
Upbound	Domestic	4	764	1552	200.0	35.0	9	9.0	1.5	7.5	163	2006		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2006		1			1							
Upbound	Domestic	4	687	1450	195.0	35.0	4	9.0	1.6	2.4	166	2006		1			1							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	196	2006		1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	2	10.0	1.7	0.3	210	2006		1							1			
Upbound	Domestic	5	886	1586	200.0	35.0	8	9.0	1.9	6.1	125	2006		1					1					
Upbound	Domestic	4	000705	1616	200.0	35.0	9	9.0	1.6	7.4	205	2006		1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2006		5			5							
Upbound	Domestic	4	764	1535	200.0	35.0	7	9.0	1.8	5.2	225	2006	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000706	1569	200.0	35.0	7	9.0	1.6	5.4	205	2006	N	1			1							
Upbound	Domestic	4	000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2006	N	1			1							
Upbound	Domestic	4	950	1678	200.0	35.0	8	9.0	1.3	6.7	180	2006		1			1							
Upbound	Domestic	5	773	1300	195.0	35.0	2	8.6	2.0	0.0	166	2006	N	2									2	
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2006		1			1							
Upbound	Domestic	3	163	999999	95.5	34.1	11	8.0	8.0	3.0	220	2006		1		1								
Upbound	Domestic	5	1593	3240	298.0	54.0	2	12.0	1.8	0.2	185	2006		4									4	
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2006		2		2								
Upbound	Domestic	4	206	414	61.5	31.2	9	9.0	2.0	7.0	125	2006		7			7							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2006		1			1							
Upbound	Domestic	5	001754	4972	297.5	54.0	8	12.1	1.5	6.5	176	2006		5					5					
Upbound	Domestic	4	764	1559	200.0	35.0	7	9.0	1.5	5.5	170	2006		1			1							
Upbound	Domestic	4	901	2700	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	1			1							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2006	N	2			2							
Upbound	Domestic	4	950	1666	200.0	35.0	8	9.0	1.4	6.6	180	2006	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2006		1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2006		2			2							
Upbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2006		1			1							
Upbound	Domestic	4	687	1924	195.0	35.0	9	10.5	1.5	7.5	120	2006		1			1							
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2006		8									8	
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2006		22					22					
Upbound	Domestic	4	823	1500	200.0	35.0	7	9.0	2.0	5.0	140	2006		1			1							
Upbound	Domestic	4	206	414	61.6	31.2	8	8.9	1.9	6.1	121	2006		1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2006	N	7			7							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2006		1			1							
Upbound	Domestic	5	891	1591	200.0	35.0	9	9.0	1.9	7.1	142	2006		1					1					
Upbound	Domestic	5	891	1580	200.0	35.0	9	9.0	1.9	7.1	142	2006		1					1					
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2006		8			8							
Upbound	Domestic	4	000823	1534	200.0	35.0	6	9.0	1.7	4.3	235	2006	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	6	9.0	1.5	4.5	225	2006	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2006	N	1			1							
Upbound	Domestic	4	932	1672	200.0	35.0	8	9.0	1.3	6.7	208	2006		1			1							
Upbound	Domestic	4	687	1510	195.0	35.0	5	9.0	1.6	3.4	119	2006		1			1							
Upbound	Domestic	5	1697	4634	296.7	54.0	2	12.5	2.0	0.0	140	2006		1									1	
Upbound	Domestic	5	1882	3321	297.6	54.0	2	9.0	2.0	0.0	183	2006	N	1									1	
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2006		1			1							
Upbound	Domestic	4	206	414	61.5	31.2	8	9.0	2.0	6.0	125	2006		46			46							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2006		4			4							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2006		1			1							
Upbound	Domestic	4	701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2006	N	3			3							
Upbound	Domestic	4	736	1638	200.0	35.0	8	9.0	1.6	6.4	176	2006	N	1			1							
Upbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2006	N	1			1							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	189	2006	N	2			2							
Upbound	Domestic	5	773	1811	195.0	35.0	2	9.0	2.0	0.0	165	2006	N	1									1	
Upbound	Domestic	4	676	1725	195.0	35.0	9	10.0	1.6	7.4	200	2006	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2006	N	2							2			
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2006		2			2							
Upbound	Domestic	4	833	1524	195.0	35.0	9	9.0	1.6	7.4	185	2006		1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2006		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2006		3			3							
Upbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	3			3							
Upbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2006	N	3			3							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2006	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2006	N	1			1							
Upbound	Domestic	4	966	1659	200.0	35.0	8	9.0	1.5	6.5	160	2006		1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2006		5			5							
Upbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2006		1			1							
Upbound	Domestic	5	891	1580	200.0	35.0	8	9.0	1.9	6.1	142	2006		5					5					
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2006		2			2							
Upbound	Domestic	4	676	1668	195.0	35.0	8	9.0	1.4	6.6	180	2006		1			1							
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2006		2					2					
Upbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2006	N	1			1							
Upbound	Domestic	4	910	1569	195.0	35.0	8	9.0	1.3	6.7	203	2006	N	1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2006	N	3			3							
Upbound	Domestic	4	000706	1626	200.0	35.0	7	9.0	1.3	5.7	145	2006	N	2			2							
Upbound	Domestic	4	879	1455	195.0	35.0	8	9.0	1.5	6.5	172	2006	N	2			2							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2006	N	6			6							
Upbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2006	N	1			1							
Upbound	Domestic	4	985	1520	195.0	35.0	8	9.0	1.6	6.4	160	2006		1			1							
Upbound	Domestic	3	345	999999	138.5	34.5	8	8.6	7.0	1.0	350	2006		1		1								
Upbound	Domestic	5	1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2006		2									2	
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	120	2006		1			1							
Upbound	Domestic	4	696	1643	200.0	35.0	9	9.0	1.5	7.5	149	2006		1			1							
Upbound	Domestic	4	676	1515	195.0	35.0	9	9.0	1.5	7.5	150	2006		1			1							
Upbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2006	N	6			6							
Upbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2006	N	2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2006	N	1			1							
Upbound	Domestic	4	871	1492	195.1	35.0	8	9.0	1.8	6.2	160	2006	N	1			1							
Upbound	Domestic	4	730	1676	200.0	35.0	8	9.0	1.3	6.7	148	2006	N	1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2006	N	5			5							
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2006	N	1			1							
Upbound	Domestic	4	000687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2006	N	1							1			
Upbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2006	N	1							1			
Upbound	Domestic	4	913	1550	200.1	35.1	8	9.0	1.6	6.4	136	2006		1			1							
Upbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2006		1			1							
Upbound	Domestic	5	798	1600	195.0	35.0	2	10.0	1.5	0.5	165	2006		3									3	
Upbound	Domestic	5	2147	3400	297.5	54.0	2	10.0	2.0	0.0	180	2006		8									8	
Upbound	Domestic	5	1619	3390	297.5	54.0	7	11.0	2.0	5.0	160	2006		1					1					
Upbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2006		1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2006	N	9			9							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2006	N	3			3							
Upbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2006	N	3			3							
Upbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2006	N	2			2							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2006		1			1							
Upbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2006	N	5			5							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2006	N	1			1							
Upbound	Domestic	5	1414	3100	256.5	54.0	2	10.0	2.0	0.0	170	2006		1									1	
Upbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2006	N	1							1			
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2006		3			3							
Upbound	Domestic	4	764	2073	200.0	35.0	8	11.6	1.6	6.4	250	2006		1			1							
Upbound	Domestic	4	206	414	61.6	31.2	9	8.9	1.9	7.1	121	2006		2			2							
Upbound	Domestic	4	696	1200	200.0	35.0	9	9.0	1.6	7.4	150	2006		2			2							
Upbound	Domestic	4	1051	1586	200.1	35.1	12	12.0	1.5	10.5	171	2006		1			1							
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2006		3			3							
Upbound	Domestic	4	688	1507	195.0	35.0	7	9.0	1.8	5.2	168	2006	N	1			1							
Upbound	Domestic	4	975	1456	195.0	35.0	8	9.0	1.8	6.2	146	2006	N	1			1							
Upbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2006	N	1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	6	9.0	1.6	4.4	205	2006	N	1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2006	N	2			2							
Upbound	Domestic	4	937	1667	195.0	35.0	8	9.0	1.6	6.4	159	2006	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2006	N	2							2			
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2006		2			2							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2006		2			2							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2006		5			5							
Upbound	Domestic	4	696	1648	200.0	35.0	8	9.0	1.5	6.5	169	2006		1			1							
Upbound	Domestic	4	730	1200	200.0	35.0	9	9.0	1.5	7.5	150	2006		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	1065	1716	200.0	35.0	8	9.0	1.1	6.9	145	2006		3			3							
Upbound	Domestic	4	705	1501	200.0	35.0	9	12.0	1.5	7.5	186	2006	N	2			2							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	2			2							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2006	N	1			1							
Upbound	Domestic	5	1634	2900	264.0	54.0	2	10.0	2.0	0.0	180	2006		1									1	
Upbound	Domestic	5	1632	3000	300.0	54.0	2	12.0	2.0	0.0	180	2006	N	2									2	
Upbound	Domestic	3	76	999999	60.8	24.1	6	6.6	6.0	0.0	310	2006		1		1								
Upbound	Domestic	4	000823	2187	200.0	35.0	10	12.0	1.7	8.3	240	2006		1			1							
Upbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2006	N	8									8	
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2006	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2006		2			2							
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2006		1			1							
Upbound	Domestic	4	952	1450	200.0	35.0	9	9.0	2.0	7.0	165	2006	N	1			1							
Upbound	Domestic	4	1052	1600	200.0	35.0	8	9.0	1.6	6.4	160	2006	N	1			1							
Upbound	Domestic	4	687	1436	195.0	35.0	8	9.0	1.9	6.1	160	2006	N	1			1							
Upbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2006		4			4							
Upbound	Domestic	4	695	1532	195.0	35.0	7	9.0	1.5	5.5	146	2006	N	1			1							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2006	N	8			8							
Upbound	Domestic	4	848	1525	195.0	35.0	8	9.0	1.6	6.4	160	2006		2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2006		2			2							
Upbound	Domestic	4	950	1500	200.1	35.0	8	9.0	1.9	6.1	149	2006	N	1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2006	N	1			1							
Upbound	Domestic	4	000745	2005	195.0	35.0	8	11.5	1.5	6.5	130	2006		1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	6	9.0	1.6	4.4	215	2006	N	1			1							
Upbound	Domestic	3	97	999999	64.0	24.0	8	8.0	8.0	0.0	260	2006		1		1								
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2006		10			10							
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2006		1			1							
Upbound	Domestic	4	700	1506	195.0	35.0	8	9.0	1.6	6.4	180	2006		1			1							
Upbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2006		3			3							
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2006	N	3			3							
Upbound	Domestic	4	931	1655	200.0	35.0	8	9.0	1.5	6.5	190	2006	N	3			3							
Upbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	206	2006	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2006		1			1							
Upbound	Domestic	4	685	1550	195.0	35.0	8	9.0	1.5	6.5	190	2006	N	4			4							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2006	N	2			2							
Upbound	Domestic	4	700	1741	195.0	35.0	8	10.0	1.6	6.4	130	2006		2			2							
Upbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2006	N	1			1							
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2006	N	1			1							
Upbound	Domestic	4	000687	1519	195.0	35.0	8	9.0	1.7	6.3	186	2006	N	1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2006	N	1			1							
Upbound	Domestic	4	687	1722	195.0	35.0	9	10.0	1.6	7.4	205	2006	N	2			2							
Upbound	Domestic	4	700	1510	195.0	35.0	8	9.0	1.4	6.6	208	2006		1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2006		1			1							
Upbound	Domestic	5	1892	3000	297.0	54.0	2	8.5	2.0	0.0	100	2006		1									1	
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2006		35		35								
Downbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2006		1				1						
Downbound	Domestic	5	925	2500	170.0	54.0	2	9.0	2.0	0.0	180	2006	N	2										2
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2006	N	5				5						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2006	N	2				2						
Downbound	Domestic	4	700	1487	195.0	35.0	10	11.0	1.8	8.2	180	2006		1				1						
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2006	N	2				2						
Downbound	Domestic	4	933	1666	200.0	35.0	8	9.0	1.4	6.6	185	2006	N	1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	1				1						
Downbound	Domestic	4	681	1500	195.0	35.0	8	9.0	1.6	6.4	190	2006	N	1				1						
Downbound	Domestic	4	735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2006	N	3				3						
Downbound	Domestic	4	910	1569	195.0	35.0	9	9.0	1.3	7.7	203	2006	N	1				1						
Downbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2006	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2006		7				7						
Downbound	Domestic	4	705	1617	200.0	35.0	9	9.0	1.6	7.4	205	2006	N	1				1						
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2006		3				3						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2006	N	1				1						
Downbound	Domestic	4	921	1700	195.0	35.0	1	10.0	1.9	-0.9	193	2006	N	1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2006		1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2006		1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2006		2								2		
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2006		19		19								
Downbound	Domestic	4	687	1534	195.0	35.0	2	9.0	1.5	0.5	145	2006	N	2								2		
Downbound	Domestic	5	1634	2900	264.0	54.0	9	10.0	2.0	7.0	180	2006		1						1				
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2006		4				4						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2006		2				2						
Downbound	Domestic	4	909	1442	195.0	35.0	9	9.0	1.9	7.1	203	2006		1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2006		4				4						
Downbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2006	N	2				2						
Downbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2006	N	2				2						
Downbound	Domestic	4	799	1887	200.0	35.0	8	10.0	1.4	6.6	149	2006	N	1				1						
Downbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2006		2				2						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2006		1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2006		3								3		
Downbound	Domestic	5	1714	2700	250.0	50.0	6	9.0	2.0	4.0	160	2006		1						1				
Downbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2006		1								1		
Downbound	Domestic	4	696	1500	200.0	35.0	2	9.0	1.6	0.4	149	2006	N	1								1		
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2006	N	3								3		
Downbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.7	0.3	250	2006		2								2		
Downbound	Domestic	4	802	2107	195.0	35.0	2	12.0	1.6	0.4	214	2006		1								1		
Downbound	Domestic	4	000745	2005	195.0	35.0	2	11.5	1.5	0.5	130	2006		1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2006		9				9						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2006	N	6				6						
Downbound	Domestic	4	687	2061	195.0	35.0	7	9.0	1.5	5.5	160	2006		3				3						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006		2				2						
Downbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2006	N	2				2						
Downbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.5	6.5	149	2006	N	1				1						
Downbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2006	N	1				1						
Downbound	Domestic	4	975	1449	195.0	35.0	8	9.0	1.9	6.1	203	2006	N	1				1						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2006		1				1						
Downbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2006	N	2				2						
Downbound	Domestic	4	206	414	61.6	31.2	2	8.9	1.9	0.1	121	2006		3								3		
Downbound	Domestic	4	687	1534	195.0	35.0	2	9.0	1.5	0.5	146	2006		1								1		
Downbound	Domestic	4	000764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2006		1								1		
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2006		15		15								
Downbound	Domestic	4	000764	1648	200.0	35.0	2	13.0	1.5	0.5	208	2006	N	1								1		
Downbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2006	N	2								2		
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2006		1								1		
Downbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2006		1				1						
Downbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2006		1				1						
Downbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2006	N	4				4						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2006	N	1				1						
Downbound	Domestic	4	823	2600	200.0	35.0	2	14.0	1.7	0.3	231	2006		2								2		
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2006		3								3		
Downbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2006		3		3								
Downbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2006	N	1								1		
Downbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.6	0.4	250	2006		1								1		
Downbound	Domestic	4	950	1650	200.0	35.0	8	9.0	1.5	6.5	190	2006		1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2006		1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	2	9.0	1.7	0.3	165	2006	N	2								2		
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2006	N	2										2

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. **OK**

Total Trips = **84400**

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	147	2006		1								1		
Downbound	Domestic	4	848	1525	195.0	35.0	2	9.0	1.6	0.4	160	2006		1								1		
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2006		1				1						
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2006		1				1						
Downbound	Domestic	4	745	1504	195.0	35.0	9	9.0	1.6	7.4	166	2006	N	1				1						
Downbound	Domestic	4	764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2006	N	1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2006	N	1				1						
Downbound	Domestic	5	001754	4972	297.5	54.0	2	12.1	1.5	0.5	176	2006		9										9
Downbound	Domestic	4	700	1487	195.0	35.0	2	11.0	1.8	0.2	180	2006		1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.6	0.4	165	2006		1								1		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2006		2								2		
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2006	N	7								7		
Downbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2006		10						10				
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.7	6.3	163	2006		1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2006		1				1						
Downbound	Domestic	4	764	1615	200.0	35.0	9	9.0	1.6	7.4	225	2006	N	1				1						
Downbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2006	N	2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	11	11.0	1.5	9.5	199	2006	N	1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2006	N	5				5						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2006	N	1				1						
Downbound	Domestic	4	000687	1571	195.0	35.0	9	9.0	1.4	7.6	145	2006	N	1				1						
Downbound	Domestic	4	764	1607	200.0	35.0	8	9.0	1.4	6.6	205	2006	N	1				1						
Downbound	Domestic	4	802	1670	200.0	35.0	8	9.0	2.0	6.0	139	2006		1				1						
Downbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2006		2				2						
Downbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2006		1				1						
Downbound	Domestic	4	1006	1902	195.0	35.0	1	11.0	1.9	-0.9	199	2006	N	2								2		
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2006		3				3						
Downbound	Domestic	4	922	1627	200.0	35.0	2	12.0	1.8	0.2	110	2006		1								1		
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2006		16		16								
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2006	N	2								2		
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2006	N	7								7		
Downbound	Domestic	4	917	1587	200.1	35.1	9	9.0	1.5	7.5	161	2006		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	9	9.0	1.5	7.5	199	2006		1				1						
Downbound	Domestic	4	000687	1611	195.0	35.0	8	9.0	1.2	6.8	145	2006		1				1						
Downbound	Domestic	4	696	1500	195.1	35.0	8	9.0	1.6	6.4	149	2006	N	2				2						
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2006	N	3				3						
Downbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2006		2				2						
Downbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2006	N	2				2						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2006	N	4				4						
Downbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2006	N	14								14		
Downbound	Domestic	4	196	412	61.6	31.2	2	9.0	1.8	0.2	125	2006		1								1		
Downbound	Domestic	4	764	1422	200.0	35.0	2	8.0	1.6	0.4	165	2006		5								5		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.8	0.2	189	2006		2								2		
Downbound	Domestic	4	764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2006		1								1		
Downbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2006		4				4						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2006		1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2006		5				5						
Downbound	Domestic	5	1597	3500	300.1	52.1	11	10.0	2.0	9.0	180	2006		1						1				
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	16				16						
Downbound	Domestic	4	986	1477	195.0	35.0	8	9.0	1.7	6.3	205	2006	N	1				1						
Downbound	Domestic	4	946	1500	200.0	35.0	8	9.0	1.9	6.1	149	2006	N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2006	N	4				4						
Downbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2006	N	1				1						
Downbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2006		1				1						
Downbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2006		1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	1				1						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.6	6.4	155	2006	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	2	9.0	1.6	0.4	180	2006		1								1		
Downbound	Domestic	4	676	1500	195.0	35.0	2	9.0	2.0	0.0	162	2006		9								9		
Downbound	Domestic	4	764	1535	200.0	35.0	2	9.0	1.8	0.2	225	2006		1								1		
Downbound	Domestic	4	1658	2304	200.0	35.0	8	12.0	1.5	6.5	240	2006		1				1						
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2006		2				2						
Downbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2006	N	9				9						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2006	N	6				6						
Downbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	210	2006	N	1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2006	N	1				1						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2006	N	1				1						
Downbound	Domestic	4	706	1587	200.0	35.0	9	9.0	1.5	7.5	155	2006		1				1						
Downbound	Domestic	4	783	1902	195.0	35.0	1	11.0	1.9	-0.9	199	2006	N	3								3		
Downbound	Domestic	3	58	85	46.7	28.0	10	9.3	9.3	0.7	260	2006		9		9								
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2006		2								2		
Downbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2006	N	4										4
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2006	N	2								2		
Downbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2006	N	2								2		
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	191	2006	N	1								1		
Downbound	Domestic	5	2482	2203	294.0	50.0	2	9.0	2.0	0.0	300	2006	N	3										3
Downbound	Domestic	5	1961	3500	297.5	54.0	8	8.5	2.0	6.0	100	2006		8						8				
Downbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2006		2				2						
Downbound	Domestic	4	888	1518	195.0	35.0	2	9.0	1.6	0.4	180	2006	N	1								1		
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	160	2006	N	1								1		
Downbound	Domestic	4	000764	2474	200.0	35.0	2	12.9	1.6	0.4	205	2006		1								1		
Downbound	Domestic	5	798	1600	195.0	35.0	9	10.0	1.5	7.5	165	2006		3						3				
Downbound	Domestic	4	823	2279	200.0	35.0	6	7.6	1.6	4.4	160	2006		1				1						
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2006		1				1						
Downbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2006	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2006		1								1		
Downbound	Domestic	3	130	999999	74.0	30.0	11	11.0	11.0	0.0	400	2006		1		1								
Downbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2006		1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.6	8.4	165	2006		1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	9	9.0	1.8	7.2	240	2006		1				1						
Downbound	Domestic	4	745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2006		1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	11.0	2.0	7.0	165	2006		1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2006		1				1						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2006	N	1				1						
Downbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2006	N	4										4
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2006		4								4		
Downbound	Domestic	4	705	1618	200.0	35.0	2	9.0	2.0	0.0	210	2006		1								1		
Downbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2006		2		2								
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2006		40		40								
Downbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2006		2		2								
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2006		2				2						
Downbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2006		1				1						
Downbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2006		3				3						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006	N	13				13						
Downbound	Domestic	4	000910	1659	200.0	35.0	8	9.0	1.5	6.5	194	2006	N	1				1						
Downbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2006	N	3										3
Downbound	Domestic	4	952	1500	200.0	35.0	9	10.7	1.6	7.4	149	2006	N	1				1						
Downbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2006	N	1				1						
Downbound	Domestic	4	764	1607	200.0	35.0	8	9.0	1.4	6.6	165	2006	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2006		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2006	N	7								7		
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2006		1				1						
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	193	2006		1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2006	N	8								8		
Downbound	Domestic	4	696	1500	195.1	35.0	2	9.0	1.6	0.4	149	2006	N	1								1		
Downbound	Domestic	4	687	1605	195.0	35.0	2	9.5	1.5	0.5	146	2006		1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2006		1										1
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2006		2				2						
Downbound	Domestic	4	705	1859	200.0	35.0	8	10.0	2.0	6.0	165	2006		1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2006		14				14						
Downbound	Domestic	4	676	1668	195.0	35.0	9	9.0	1.4	7.6	180	2006	N	1				1						
Downbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2006	N	4				4						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2006	N	1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2006	N	1				1						
Downbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2006	N	2				2						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	6				6						
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2006		1		1								
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2006		30		30								
Downbound	Domestic	4	705	1727	200.0	35.0	2	9.0	1.1	0.9	146	2006	N	1								1		
Downbound	Domestic	4	700	1529	195.0	35.0	2	9.0	1.6	0.4	194	2006	N	1								1		
Downbound	Domestic	4	937	1667	195.0	35.0	2	9.0	1.6	0.4	159	2006	N	1								1		
Downbound	Domestic	4	1020	1854	200.0	35.0	1	10.0	1.6	-0.6	167	2006	N	1								1		
Downbound	Domestic	4	764	1647	200.0	35.0	2	9.0	1.2	0.8	205	2006		1								1		
Downbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2006		1				1						
Downbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	193	2006		1				1						
Downbound	Domestic	4	687	1522	195.0	35.0	8	9.0	1.6	6.4	165	2006	N	1				1						
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2006	N	2				2						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006	N	3				3						
Downbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2006		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	5				5						
Downbound	Domestic	5	835	1426	195.0	35.0	2	9.0	2.1	-0.1	136	2006		1										1
Downbound	Domestic	4	687	1571	195.0	35.0	2	9.0	1.4	0.6	145	2006	N	1								1		
Downbound	Domestic	4	700	1741	195.0	35.0	2	10.0	1.6	0.4	130	2006		1								1		
Downbound	Domestic	4	908	1654	200.0	35.0	2	9.0	1.4	0.6	204	2006	N	1								1		
Downbound	Domestic	3	62	999999	85.6	27.4	7	8.0	6.5	0.5	149	2006		3		3								
Downbound	Domestic	4	206	414	61.6	31.2	2	9.0	2.0	0.0	125	2006		1								1		
Downbound	Domestic	4	925	1870	200.0	35.0	2	10.0	2.0	0.0	90	2006		1								1		
Downbound	Domestic	5	2482	2500	293.0	50.0	10	9.0	2.0	8.0	220	2006		2						2				
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2006		2				2						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2006	N	1				1						
Downbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2006	N	2				2						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2006		1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	120	2006		2								2		
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	209	2006		1								1		
Downbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2006		1								1		
Downbound	Domestic	4	1386	2995	200.0	54.0	2	12.3	3.1	-1.1	114	2006		1								1		
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2006		3								3		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2006	N	2								2		
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2006	N	2								2		
Downbound	Domestic	5	000891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2006	N	1										1
Downbound	Domestic	4	871	1492	195.1	35.0	2	9.0	1.8	0.2	160	2006	N	1								1		
Downbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2006	N	1								1		
Downbound	Domestic	4	748	1642	200.0	35.0	2	9.0	1.6	0.4	196	2006	N	6								6		
Downbound	Domestic	4	685	1500	195.0	35.0	2	9.0	1.6	0.4	190	2006	N	6								6		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	196	2006	N	1								1		
Downbound	Domestic	4	764	1607	200.0	35.0	2	9.0	1.4	0.6	205	2006		1								1		
Downbound	Domestic	4	000705	1699	200.0	35.0	2	9.0	1.2	0.8	145	2006		1								1		
Downbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.6	6.4	180	2006		2				2						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2006		9				9						
Downbound	Domestic	4	1013	1508	195.0	35.0	9	9.0	1.7	7.3	145	2006	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	11.0	1.5	6.5	195	2006	N	1				1						
Downbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	225	2006	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2006		1				1						
Downbound	Domestic	4	687	1534	195.0	35.0	9	9.0	1.5	7.5	145	2006	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	8	11.0	4.0	4.0	170	2006		1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2006	N	1				1						
Downbound	Domestic	4	000913	1532	200.0	35.0	10	9.6	1.5	8.5	145	2006	N	1				1						
Downbound	Domestic	4	205	414	61.5	31.2	2	9.0	1.5	0.5	125	2006		1								1		
Downbound	Domestic	4	823	2279	200.0	35.0	2	12.0	1.7	0.3	223	2006		1								1		
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2006		3		3								
Downbound	Domestic	4	695	1532	195.0	35.0	2	9.0	1.5	0.5	146	2006	N	1								1		
Downbound	Domestic	4	764	1517	200.0	35.0	2	9.0	1.9	0.1	225	2006	N	4								4		
Downbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2006	N	9								9		
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2006		1								1		
Downbound	Domestic	4	910	2096	195.0	35.0	8	12.0	1.8	6.2	240	2006		1				1						
Downbound	Domestic	4	196	375	61.6	31.2	8	9.0	2.0	6.0	125	2006		1				1						
Downbound	Domestic	4	802	2107	195.0	35.0	8	12.0	1.6	6.4	214	2006		1				1						
Downbound	Domestic	4	848	1500	195.0	35.0	9	9.0	1.6	7.4	149	2006		2				2						
Downbound	Domestic	4	1020	1020	200.0	35.0	9	12.0	1.6	7.4	149	2006		1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2006	N	1				1						
Downbound	Domestic	4	745	1534	195.0	35.0	8	9.0	1.5	6.5	210	2006	N	1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2006	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2006		1				1						
Downbound	Domestic	4	206	414	61.6	31.2	2	8.6	2.0	0.0	125	2006		11								11		
Downbound	Domestic	4	676	1500	195.0	35.0	2	10.7	1.6	0.4	149	2006		1								1		
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	165	2006	N	1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2006	N	7								7		
Downbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2006	N	4										4
Downbound	Domestic	4	856	2312	200.0	35.0	2	12.0	1.5	0.5	217	2006	N	1								1		
Downbound	Domestic	4	745	2077	195.0	35.0	2	9.0	1.5	0.5	215	2006		1								1		
Downbound	Domestic	5	2223	3400	297.5	54.0	2	10.0	2.0	0.0	180	2006		1										1
Downbound	Domestic	4	933	1666	200.0	35.0	9	9.0	1.4	7.6	185	2006		1				1						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2006		2				2						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2006		6				6						
Downbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2006		1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2006	N	7				7						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2006	N	1				1						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2006		2				2						
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2006	N	2				2						
Downbound	Domestic	4	676	1511	195.0	35.0	9	9.0	1.6	7.4	192	2006	N	1				1						
Downbound	Domestic	4	730	1676	200.0	35.0	8	9.0	1.3	6.7	148	2006		1				1						
Downbound	Domestic	4	885	1524	200.0	35.0	3	9.0	2.1	0.9	193	2006		1								1		
Downbound	Domestic	4	676	1397	195.0	35.0	2	9.0	1.6	0.4	160	2006	N	1								1		
Downbound	Domestic	4	471	1510	195.0	35.0	2	9.0	1.6	0.4	119	2006		2								2		
Downbound	Domestic	4	694	1743	195.0	35.0	2	10.0	1.6	0.4	176	2006	N	2								2		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2006		2				2						
Downbound	Domestic	5	2435	2477	294.0	50.0	2	9.2	2.7	-0.7	318	2006	N	2										2
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2006		1				1						
Downbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2006		1				1						
Downbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	2				2						
Downbound	Domestic	4	690	1500	195.0	35.0	9	9.0	1.6	7.4	149	2006	N	1				1						
Downbound	Domestic	4	696	1643	200.0	35.0	2	9.0	1.5	0.5	185	2006		1								1		
Downbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2006		1										1
Downbound	Domestic	5	001754	4329	297.5	54.0	2	13.0	2.0	0.0	176	2006		9										9
Downbound	Domestic	4	687	1924	195.0	35.0	2	10.5	1.5	0.5	120	2006		1								1		
Downbound	Domestic	5	2482	2208	294.0	50.0	2	9.0	2.0	0.0	300	2006	N	3										3
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2006		1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2006		13				13						
Downbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2006		8						8				
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2006		3				3						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2006		8				8						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2006	N	2				2						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2006	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2006	N	5				5						
Downbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	1				1						
Downbound	Domestic	4	574	1526	195.0	35.0	8	9.0	1.6	6.4	140	2006		1				1						
Downbound	Domestic	4	694	1728	195.0	35.0	2	10.0	1.6	0.4	176	2006	N	1								1		
Downbound	Domestic	4	1065	1659	200.0	35.0	2	9.0	1.5	0.5	185	2006	N	1								1		
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2006	N	1				1						
Downbound	Domestic	4	676	1511	195.0	35.0	8	9.0	1.6	6.4	192	2006	N	2				2						
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2006	N	5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2006		1				1						
Downbound	Domestic	4	960	1635	200.0	35.0	8	9.0	1.6	6.4	177	2006	N	1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2006		2						2				
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2006	N	1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2006		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2006	N	1				1						
Downbound	Domestic	4	687	1510	195.0	35.0	9	9.0	1.6	7.4	119	2006		1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2006		30								30		
Downbound	Domestic	4	696	1648	200.0	35.0	2	9.0	1.5	0.5	169	2006		1								1		
Downbound	Domestic	4	687	1574	195.0	35.0	2	9.0	1.3	0.7	145	2006	N	1								1		
Downbound	Domestic	4	764	1631	200.0	35.0	8	9.0	1.2	6.8	165	2006	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2006		1				1						
Downbound	Domestic	4	1033	1600	200.0	35.0	8	9.0	1.6	6.4	170	2006	N	1				1						
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2006	N	2				2						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2006	N	3				3						
Downbound	Domestic	4	764	1535	200.0	35.0	9	9.0	1.8	7.2	225	2006	N	1				1						
Downbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2006		1				1						
Downbound	Domestic	4	695	1532	195.0	35.0	8	9.0	1.5	6.5	146	2006	N	2				2						
Downbound	Domestic	4	745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2006	N	10								10		
Downbound	Domestic	4	888	1475	195.0	35.0	2	9.0	1.6	0.4	206	2006		16								16		
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	225	2006		1										1
Downbound	Domestic	4	1072	1667	200.0	35.0	2	9.0	1.5	0.5	183	2006		1								1		
Downbound	Domestic	4	578	1531	195.0	35.0	2	9.0	1.6	0.4	140	2006		1								1		
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	196	2006		1								1		
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	189	2006	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2006		2				2						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2006		1				1						
Downbound	Domestic	4	833	1626	195.0	35.0	9	9.6	1.6	7.4	190	2006	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	12.0	1.5	6.5	195	2006	N	2				2						
Downbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	169	2006	N	1				1						
Downbound	Domestic	4	802	1660	200.0	35.0	8	9.0	2.0	6.0	139	2006		1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2006	N	1				1						
Downbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2006	N	4										4
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2006		2								2		
Downbound	Domestic	5	805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2006		2										2
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2006	N	1										1
Downbound	Domestic	5	774	1379	195.0	35.0	2	8.6	1.6	0.4	175	2006		1										1
Downbound	Domestic	4	764	1969	200.0	35.0	2	10.5	1.7	0.3	180	2006	N	1								1		
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	189	2006	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2006		1				1						
Downbound	Domestic	4	196	375	61.6	31.2	9	9.0	2.0	7.0	125	2006		2				2						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	192	2006		3				3						
Downbound	Domestic	4	705	1684	250.0	54.0	9	11.0	1.5	7.5	200	2006		1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2006		2				2						
Downbound	Domestic	4	687	1531	195.0	35.0	8	9.0	1.6	6.4	145	2006		1				1						
Downbound	Domestic	5	001841	3200	290.0	54.0	10	10.0	2.0	8.0	220	2006		4						4				
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2006		1				1						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2006	N	4				4						
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2006	N	2				2						
Downbound	Domestic	4	736	1654	200.0	35.0	8	9.0	1.5	6.5	185	2006	N	2				2						
Downbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	1				1						
Downbound	Domestic	4	745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2006	N	1				1						
Downbound	Domestic	4	000695	1496	195.0	35.0	9	9.0	1.8	7.2	146	2006	N	1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2006	N	2				2						
Downbound	Domestic	4	735	1500	200.1	35.0	8	9.0	1.6	6.4	149	2006	N	2				2						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2006		1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2006		2										2
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2006		3								3		
Downbound	Domestic	4	000687	1476	195.0	35.0	2	9.0	1.7	0.3	205	2006		1								1		
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	154	2006		1								1		
Downbound	Domestic	4	975	1449	195.0	35.0	2	9.0	1.9	0.1	203	2006	N	2								2		
Downbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2006	N	1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	180	2006	N	3								3		
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	193	2006	N	1								1		
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2006		1						1				
Downbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2006	N	2				2						
Downbound	Domestic	4	706	1600	200.0	35.0	9	9.0	1.4	7.6	155	2006	N	1				1						
Downbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	1				1						
Downbound	Domestic	5	886	1586	200.0	35.0	2	9.0	1.9	0.1	125	2006		1										1
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2006		17		17								
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2006		28		28								
Downbound	Domestic	3	533	999999	140.0	42.0	6	8.6	6.6	-0.6	430	2006		1		1								
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	163	2006	N	1								1		
Downbound	Domestic	4	676	1725	195.0	35.0	1	10.0	1.6	-0.6	200	2006	N	2								2		
Downbound	Domestic	4	700	1487	195.0	35.0	10	11.0	1.7	8.3	180	2006		2				2						
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2006		3				3						
Downbound	Domestic	4	848	1526	195.0	35.0	8	9.0	1.6	6.4	192	2006		1				1						
Downbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2006		3				3						
Downbound	Domestic	4	687	1450	195.0	35.0	8	9.0	1.6	6.4	166	2006		1				1						
Downbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2006	N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2006		4				4						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2006		1				1						
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2006		5										5
Downbound	Domestic	3	000255	375	110.0	34.0	8	8.0	7.5	0.5	380	2006		1		1								
Downbound	Domestic	4	705	1500	200.0	35.0	2	9.0	1.5	0.5	120	2006		2								2		
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	180	2006		1								1		
Downbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2006		2				2						
Downbound	Domestic	4	764	1528	200.0	35.0	8	10.0	1.7	6.3	163	2006		1				1						
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	145	2006		1				1						
Downbound	Domestic	4	687	1531	195.0	35.0	8	9.0	1.6	6.4	145	2006	N	1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2006		2				2						
Downbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2006		1				1						
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2006		1				1						
Downbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2006	N	1				1						
Downbound	Domestic	4	196	412	61.6	31.2	2	8.6	1.6	0.4	130	2006		1								1		
Downbound	Domestic	4	823	2187	200.0	35.0	2	12.0	1.7	0.3	240	2006		1								1		
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2006		1								1		
Downbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2006	N	3								3		
Downbound	Domestic	4	000706	1534	200.0	35.0	2	9.0	1.8	0.2	205	2006	N	1								1		
Downbound	Domestic	4	966	1629	200.0	35.0	2	9.0	1.7	0.3	178	2006	N	1								1		
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2006	N	8								8		
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2006	N	5								5		
Downbound	Domestic	4	736	1884	200.0	35.0	2	10.0	1.5	0.5	176	2006	N	1								1		
Downbound	Domestic	4	700	1504	195.0	35.0	2	9.0	1.6	0.4	206	2006	N	1								1		
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2006		2								2		
Downbound	Domestic	5	2502	2902	295.0	50.0	2	9.0	2.5	-0.5	290	2006	N	2										2
Downbound	Domestic	4	952	1500	200.0	35.0	9	10.7	1.6	7.4	149	2006		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2006		5				5						
Downbound	Domestic	4	889	1464	195.1	35.2	9	9.0	1.8	7.2	194	2006		1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2006	N	5				5						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2006	N	4				4						
Downbound	Domestic	4	687	1450	195.0	35.0	9	9.0	1.6	7.4	166	2006		1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2006	N	8				8						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2006		1				1						
Downbound	Domestic	4	888	1500	195.0	35.0	8	12.0	2.0	6.0	149	2006	N	2				2						
Downbound	Domestic	4	687	2000	195.0	35.0	9	9.0	1.7	7.3	160	2006		1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2006	N	2				2						
Downbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2006		5								5		
Downbound	Domestic	3	200	999999	114.8	30.0	8	8.6	7.0	1.0	340	2006		4		4								
Downbound	Domestic	4	823	1750	200.0	35.0	2	10.0	1.6	0.4	155	2006		1								1		
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2006	N	5								5		
Downbound	Domestic	4	705	1645	200.0	35.0	2	9.0	1.5	0.5	200	2006		1								1		
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2006		10		10								
Downbound	Domestic	4	745	1510	195.0	35.0	2	9.0	1.6	0.4	155	2006	N	3								3		
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2006		2				2						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2006		2				2						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2006		1				1						
Downbound	Domestic	4	848	1524	195.0	35.0	8	9.0	1.6	6.4	185	2006	N	4				4						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2006	N	6				6						
Downbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2006	N	2				2						
Downbound	Domestic	4	883	1496	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2006	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2006		1				1						
Downbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2006		2								2		
Downbound	Domestic	4	764	2073	200.0	35.0	2	11.6	1.6	0.4	250	2006		2								2		
Downbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2006		3								3		
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	216	2006	N	1								1		
Downbound	Domestic	4	823	2291	200.0	35.0	8	12.0	1.5	6.5	225	2006		1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	6				6						
Downbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2006	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2006	N	3				3						
Downbound	Domestic	4	833	1524	195.0	35.0	8	9.0	1.6	6.4	185	2006	N	1				1						
Downbound	Domestic	4	687	1722	195.0	35.0	1	10.0	1.6	-0.6	205	2006	N	5								5		
Downbound	Domestic	4	206	414	61.5	31.2	2	9.0	2.0	0.0	125	2006		51								51		
Downbound	Domestic	4	676	1633	195.0	35.0	2	9.6	1.7	0.3	190	2006		1								1		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2006		2								2		
Downbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2006	N	2								2		
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2006	N	4								4		
Downbound	Domestic	5	1876	3300	297.5	54.0	9	9.6	2.0	7.0	220	2006		4						4				
Downbound	Domestic	4	745	2345	195.0	35.0	8	13.0	1.6	6.4	209	2006		1				1						
Downbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2006		5				5						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2006		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2006		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2006	N	11				11						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	180	2006	N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2006		1				1						
Downbound	Domestic	4	764	1497	200.0	35.0	2	9.0	1.9	0.1	205	2006	N	1								1		
Downbound	Domestic	4	705	1880	200.0	35.0	2	10.0	1.4	0.6	140	2006		1								1		
Downbound	Domestic	4	687	1534	195.0	35.0	2	9.0	1.5	0.5	145	2006		2								2		
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2006		1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2006		2				2						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2006		3				3						
Downbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2006	N	1				1						
Downbound	Domestic	4	1051	1586	200.1	35.1	9	8.7	1.5	7.5	171	2006		1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2006	N	13								13		
Downbound	Domestic	4	823	2732	200.0	35.0	2	14.0	2.0	0.0	191	2006		1								1		
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2006		3										3
Downbound	Domestic	4	676	1498	195.0	35.0	2	9.0	1.7	0.3	160	2006		1								1		
Downbound	Domestic	4	823	1642	200.0	35.0	2	9.0	1.6	0.4	260	2006		2								2		
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2006		6										6
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.6	0.4	180	2006	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2006	N	3								3		
Downbound	Domestic	4	690	1474	195.0	35.0	2	9.0	1.8	0.2	176	2006	N	5								5		
Downbound	Domestic	4	687	1514	195.0	35.0	1	9.0	1.5	-0.5	206	2006	N	1								1		
Downbound	Domestic	4	681	1450	195.0	35.0	2	9.0	2.0	0.0	190	2006	N	2								2		
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2006		8				8						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2006		1				1						
Downbound	Domestic	4	971	1524	195.0	35.0	8	9.0	2.1	5.9	193	2006		1				1						
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2006	N	1				1						
Downbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	205	2006	N	1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2006	N	3				3						
Downbound	Domestic	4	706	1587	200.0	35.0	9	9.0	1.5	7.5	155	2006	N	2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.5	7.5	190	2006	N	1				1						
Downbound	Domestic	4	764	1886	200.0	35.0	8	10.0	1.5	6.5	150	2006		1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2006	N	1				1						
Downbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2006		1				1						
Downbound	Domestic	4	833	1524	195.0	35.0	2	9.0	1.6	0.4	185	2006		1								1		
Downbound	Domestic	4	823	1500	200.0	35.0	2	9.0	2.0	0.0	140	2006		2								2		
Downbound	Domestic	4	206	414	61.5	31.2	2	9.0	1.5	0.5	125	2006		1								1		
Downbound	Domestic	4	856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2006	N	1								1		
Downbound	Domestic	4	685	1550	195.0	35.0	2	9.0	1.5	0.5	190	2006	N	1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.5	0.5	205	2006		1								1		
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2006		2								2		
Downbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2006		2				2						
Downbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2006	N	4										4
Downbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2006		2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2006	N	1				1						
Downbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	6				6						
Downbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2006	N	2				2						
Downbound	Domestic	5	805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2006	N	1										1
Downbound	Domestic	4	888	1500	195.0	35.0	2	12.0	2.0	0.0	149	2006	N	4								4		
Downbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2006		1				1						
Downbound	Domestic	4	000687	1476	195.0	35.0	9	9.0	1.7	7.3	205	2006		2				2						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2006	N	2				2						
Downbound	Domestic	4	764	1560	200.0	35.0	7	9.0	1.6	5.4	225	2006	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2006		3				3						
Downbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2006	N	2				2						
Downbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2006	N	4								4		
Downbound	Domestic	4	764	1854	200.0	35.0	2	10.0	1.6	0.4	210	2006		1								1		
Downbound	Domestic	4	705	2002	200.0	35.0	2	9.0	2.0	0.0	190	2006		1								1		
Downbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2006		2								2		
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2006		14		14								
Downbound	Domestic	5	740	1578	200.0	35.0	2	9.0	1.9	0.1	183	2006	N	1										1
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	215	2006	N	1								1		
Downbound	Domestic	4	735	1500	200.0	35.0	2	9.0	1.6	0.4	149	2006	N	3								3		
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2006	N	3								3		
Downbound	Domestic	5	798	1490	195.0	35.0	2	9.0	2.0	0.0	170	2006	N	1										1
Downbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2006		1				1						
Downbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2006		3				3						
Downbound	Domestic	5	2223	3400	297.5	54.0	10	10.0	2.0	8.0	180	2006		8						8				
Downbound	Domestic	5	766	1200	135.0	50.0	12	12.0	2.0	10.0	160	2006		2						2				
Downbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2006	N	2				2						
Downbound	Domestic	4	705	1648	200.0	35.0	8	12.0	1.5	6.5	186	2006	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2006	N	4				4						
Downbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2006	N	1				1						
Downbound	Domestic	4	196	375	61.6	31.2	2	9.0	1.8	0.2	125	2006		6								6		
Downbound	Domestic	4	933	1666	200.0	35.0	2	9.0	1.4	0.6	185	2006	N	2								2		
Downbound	Domestic	4	000823	2300	200.0	35.0	2	13.0	1.6	0.4	165	2006		1								1		
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2006	N	2								2		
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2006	N	1								1		
Downbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2006		1								1		
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	187	2006	N	1								1		
Downbound	Domestic	4	774	1450	195.0	35.0	2	9.0	1.5	0.5	190	2006	N	5								5		
Downbound	Domestic	4	706	1507	200.0	35.0	2	9.0	1.9	0.1	215	2006		1								1		
Downbound	Domestic	5	1943	3500	295.0	54.0	9	10.0	2.0	7.0	220	2006		1						1				
Downbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2006		2				2						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2006	N	4				4						
Downbound	Domestic	4	654	1720	195.0	35.0	8	10.0	1.6	6.4	176	2006	N	2				2						
Downbound	Domestic	4	1081	1676	200.0	35.0	8	9.0	1.3	6.7	146	2006		1				1						
Downbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2006		3										3
Downbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2006		1				1						
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2006		8		8								
Downbound	Domestic	4	206	414	61.6	31.2	2	8.9	1.9	0.1	125	2006		3								3		
Downbound	Domestic	4	000700	1637	200.0	35.0	2	9.0	1.6	0.4	149	2006		2								2		
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2006	N	6								6		
Downbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2006	N	2								2		
Downbound	Domestic	4	834	1701	195.0	35.0	2	10.0	1.7	0.3	210	2006	N	1								1		
Downbound	Domestic	4	705	1648	200.0	35.0	9	12.0	1.5	7.5	186	2006		1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	8	13.0	1.5	6.5	208	2006		1				1						
Downbound	Domestic	4	000705	1692	200.0	35.0	8	9.0	1.2	6.8	145	2006		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2006		2				2						
Downbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	165	2006	N	2				2						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2006	N	3				3						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2006	N	2				2						
Downbound	Domestic	4	1033	1600	200.0	35.0	9	9.0	1.6	7.4	170	2006	N	1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	166	2006	N	1				1						
Downbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2006	N	5										5
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2006	N	4				4						
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2006	N	1				1						
Downbound	Domestic	4	888	1529	195.0	35.0	2	9.0	1.5	0.5	160	2006		11								11		
Downbound	Domestic	5	812	1432	195.0	35.0	2	9.0	1.1	0.9	142	2006		1										1
Downbound	Domestic	4	676	1498	195.0	35.0	2	9.0	1.7	0.3	160	2006	N	1								1		
Downbound	Domestic	4	1013	1508	195.0	35.0	2	8.7	1.7	0.3	145	2006	N	1								1		
Downbound	Domestic	4	764	1535	200.0	35.0	2	9.0	1.8	0.2	225	2006	N	1								1		
Downbound	Domestic	4	705	9100	200.0	35.0	1	10.0	1.4	-0.4	208	2006	N	1								1		
Downbound	Domestic	4	823	2732	200.0	35.0	2	14.0	2.0	0.0	191	2006	N	1								1		
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2006		2				2						
Downbound	Domestic	4	531	1535	195.0	35.0	8	9.0	1.5	6.5	192	2006		1				1						
Downbound	Domestic	4	000687	1476	195.0	35.0	9	9.0	1.7	7.3	205	2006	N	3				3						
Downbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2006	N	3				3						
Downbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2006	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.6	7.4	225	2006	N	1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2006	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2006		2				2						
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2006	N	3				3						
Downbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2006		1				1						
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2006		5								5		
Downbound	Domestic	4	717	1662	200.0	35.0	2	9.0	1.4	0.6	191	2006	N	1								1		
Downbound	Domestic	4	888	1479	195.0	35.0	2	9.0	1.8	0.2	180	2006		2								2		
Downbound	Domestic	4	687	1494	195.0	35.0	2	9.0	1.7	0.3	166	2006		1								1		
Downbound	Domestic	4	910	1506	195.1	35.1	2	9.0	1.7	0.3	145	2006	N	1								1		
Downbound	Domestic	4	687	1633	195.0	35.0	2	9.0	1.4	0.6	133	2006		1								1		
Downbound	Domestic	4	901	1450	195.0	35.0	2	9.0	1.5	0.5	190	2006	N	1								1		
Downbound	Domestic	3	303	999999	102.5	34.0	7	9.0	7.5	-0.5	440	2006		1		1								
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2006	N	5				5						
Downbound	Domestic	4	957	1671	200.0	35.0	8	9.0	1.5	6.5	145	2006	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	12	11.0	1.5	10.5	199	2006	N	1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2006	N	2				2						
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	1.5	0.5	192	2006	N	1								1		
Downbound	Domestic	3	643	999999	145.0	48.0	8	9.0	8.0	0.0	400	2006	N	5		5								
Downbound	Domestic	5	759	1578	200.0	35.0	2	9.0	1.9	0.1	164	2006	N	2										2
Downbound	Domestic	4	688	1542	200.0	35.0	2	9.0	1.5	0.5	210	2006		1								1		
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.5	0.5	190	2006	N	1								1		
Downbound	Domestic	4	713	1550	200.0	35.0	2	9.0	1.2	0.8	190	2006	N	4								4		
Downbound	Domestic	4	909	1442	195.0	35.0	2	9.0	1.9	0.1	203	2006	N	1								1		
Downbound	Domestic	3	204	999999	91.5	32.0	7	7.6	6.0	1.0	436	2006		3		3								
Downbound	Domestic	4	823	2280	200.0	35.0	8	12.0	1.4	6.6	223	2006		1				1						
Downbound	Domestic	4	764	1865	200.0	35.0	9	12.0	1.5	7.5	208	2006		1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	9	9.0	1.8	7.2	225	2006		1				1						
Downbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2006	N	2				2						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	1				1						
Downbound	Domestic	5	2356	7068	293.0	50.0	2	8.5	2.7	-0.7	320	2006	N	1										1
Downbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2006	N	1				1						
Downbound	Domestic	4	000823	2187	200.0	35.0	2	12.0	1.7	0.3	240	2006		1								1		
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	191	2006		1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	180	2006	N	2								2		
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2006		1								1		
Downbound	Domestic	4	901	2700	195.0	35.0	2	9.0	1.6	0.4	180	2006	N	1								1		
Downbound	Domestic	4	700	1511	195.0	35.0	2	9.0	1.6	0.4	190	2006	N	2								2		
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2006	N	2								2		
Downbound	Domestic	4	701	1519	195.0	35.0	2	9.0	1.5	0.5	192	2006	N	1								1		
Downbound	Domestic	4	764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2006		1				1						
Downbound	Domestic	4	000687	1571	195.0	35.0	9	9.0	1.4	7.6	145	2006		1				1						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2006		1				1						
Downbound	Domestic	4	966	1669	200.0	35.0	8	9.0	1.5	6.5	193	2006	N	1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	235	2006	N	1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2006	N	1				1						
Downbound	Domestic	4	687	1518	195.0	35.0	2	9.0	2.0	0.0	150	2006		2								2		
Downbound	Domestic	4	196	375	61.6	31.2	2	9.0	2.0	0.0	125	2006		7								7		
Downbound	Domestic	5	774	1329	195.0	35.0	2	12.0	2.0	0.0	165	2006	N	1										1
Downbound	Domestic	4	206	414	61.5	31.2	7	9.0	2.0	5.0	125	2006		1				1						
Downbound	Domestic	5	2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2006	N	1										1
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2006		1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2006		4				4						
Downbound	Domestic	4	909	1450	195.0	35.0	8	9.0	1.9	6.1	170	2006		1				1						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2006	N	7				7						
Downbound	Domestic	4	705	1880	200.0	35.0	9	10.0	1.4	7.6	140	2006		1				1						
Downbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2006	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2006	N	1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	8	9.0	1.4	6.6	132	2006		1				1						
Downbound	Domestic	4	945	1424	195.0	35.0	2	9.0	1.1	0.9	190	2006	N	1								1		
Downbound	Domestic	4	888	1500	195.1	35.0	2	9.0	1.6	0.4	149	2006	N	4								4		
Downbound	Domestic	5	849	1660	200.0	35.0	2	9.0	1.6	0.4	170	2006	N	1										1
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2006		1								1		
Downbound	Domestic	4	206	412	61.6	31.2	2	8.6	1.6	0.4	130	2006		1								1		
Downbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2006		1				1						
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2006		4				4						
Downbound	Domestic	5	741	1481	195.0	35.0	9	10.0	2.0	7.0	170	2006		3						3				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2006	1				1						
Downbound	Domestic	4	688	1495	195.0	35.0	8	9.0	1.9	6.1	169	2006 N	4				4						
Downbound	Domestic	4	922	1842	200.0	35.0	8	10.0	1.8	6.2	210	2006	1				1						
Downbound	Domestic	4	985	1531	195.0	35.0	8	9.0	1.6	6.4	160	2006	1				1						
Downbound	Domestic	4	723	1875	200.0	35.0	8	10.0	1.7	6.3	163	2006 N	1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2006 N	1				1						
Downbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2006 N	15		15								
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2006	1		1								
Downbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2006	3										3
Downbound	Domestic	5	894	1591	200.0	35.0	2	9.0	1.9	0.1	142	2006 N	3										3
Downbound	Domestic	4	311	1498	195.0	35.0	2	9.0	1.6	0.4	155	2006 N	1								1		
Downbound	Domestic	4	783	1450	195.0	35.0	2	9.0	2.0	0.0	190	2006 N	4								4		
Downbound	Domestic	4	701	1508	195.0	35.0	2	9.0	1.6	0.4	196	2006 N	2								2		
Downbound	Domestic	3	108	999999	58.0	22.0	7	7.0	6.5	0.5	340	2006	1		1								
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2006	2				2						
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2006	2				2						
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2006 N	6				6						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2006 N	2				2						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2006 N	2				2						
Downbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	193	2006 N	1				1						
Downbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2006 N	6				6						
Downbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2006 N	2				2						
Downbound	Domestic	4	710	1400	195.0	35.0	10	9.2	1.6	8.4	139	2006	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2006 N	1				1						
Downbound	Domestic	4	000700	1637	200.0	35.0	9	9.0	1.6	7.4	149	2006 N	1				1						
Downbound	Domestic	4	1046	1904	195.0	35.0	1	11.0	1.8	-0.8	191	2006 N	3								3		
Downbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2006 N	5								5		
Downbound	Domestic	4	700	1730	195.0	35.0	2	12.0	1.5	0.5	190	2006	1								1		
Downbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2006	1								1		
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2006 N	7										7
Downbound	Domestic	4	971	1524	200.0	35.0	3	9.0	2.1	0.9	193	2006 N	1								1		
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2006 N	1								1		
Downbound	Domestic	4	907	1733	195.0	35.0	1	10.0	1.6	-0.6	200	2006 N	2								2		
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2006 N	1								1		
Downbound	Domestic	5	1754	4254	297.5	54.0	2	11.0	1.5	0.5	200	2006 N	1										1
Downbound	Domestic	4	950	1678	200.0	35.0	2	9.0	1.3	0.7	180	2006	1								1		
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2006	4				4						
Downbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2006	1				1						
Downbound	Domestic	5	002424	2213	295.0	50.0	2	9.0	2.5	-0.5	280	2006 N	4										4
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2006	9								9		
Downbound	Domestic	4	823	2310	200.0	35.0	2	12.0	1.5	0.5	225	2006	2								2		
Downbound	Domestic	3	235	999999	99.0	32.0	7	8.5	7.5	-0.5	406	2006	2		2								
Downbound	Domestic	4	823	2300	200.0	35.0	2	12.0	1.6	0.4	150	2006	1								1		
Downbound	Domestic	4	1020	1500	200.0	35.0	9	12.0	1.6	7.4	149	2006	1				1						
Downbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2006	2				2						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2006	3				3						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2006 N	3				3						
Downbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2006 N	3				3						
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2006 N	6				6						
Downbound	Domestic	4	206	414	61.5	31.2	6	9.0	2.0	4.0	125	2006	2				2						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2006	7				7						
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2006 N	3								3		
Downbound	Domestic	4	000706	1626	200.0	35.0	7	9.0	1.3	5.7	145	2006	1				1						
Downbound	Domestic	4	950	1500	200.0	35.0	8	9.0	1.9	6.1	149	2006 N	1				1						
Downbound	Domestic	4	705	1727	200.0	35.0	2	9.0	1.1	0.9	146	2006	1								1		
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2006 N	5								5		
Downbound	Domestic	4	957	1665	200.0	35.0	2	9.0	1.4	0.6	186	2006 N	2								2		
Downbound	Domestic	5	1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2006	9						9				
Downbound	Domestic	4	000764	1648	200.0	35.0	9	13.0	2.0	7.0	208	2006	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2006	2				2						
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2006	1						1				
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2006	2				2						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2006	3				3						
Downbound	Domestic	4	764	2400	200.0	35.0	9	9.0	1.6	7.4	225	2006	1				1						
Downbound	Domestic	4	910	1449	195.0	35.0	9	9.0	1.9	7.1	203	2006	1				1						
Downbound	Domestic	5	1416	2500	256.5	54.0	9	9.0	1.5	7.5	90	2006	4						4				
Downbound	Domestic	4	688	1507	195.0	35.0	9	9.0	1.8	7.2	168	2006 N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2006 N	1				1						
Downbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2006 N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	147	2006	1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2006 N	8								8		
Downbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2006	1								1		
Downbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.9	0.1	194	2006	1								1		
Downbound	Domestic	4	630	1450	195.0	35.0	2	8.0	1.5	0.5	136	2006	2								2		
Downbound	Domestic	5	886	1489	195.0	35.0	2	9.0	1.3	0.7	164	2006 N	1										1
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2006	1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2006	1				1						
Downbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2006	1				1						
Downbound	Domestic	4	687	1505	195.0	35.0	9	9.0	1.8	7.2	200	2006 N	1				1						
Downbound	Domestic	4	687	1626	195.0	35.0	9	9.0	1.4	7.6	146	2006	1				1						
Downbound	Domestic	4	000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2006 N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2006	2				2						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2006	2				2						
Downbound	Domestic	4	1020	1544	200.0	35.0	2	9.0	1.5	0.5	135	2006	1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	2	12.0	2.0	0.0	165	2006	2								2		
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2006	3								3		
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2006	2		2								
Downbound	Domestic	5	000795	1478	195.0	35.0	2	9.0	1.8	0.2	178	2006 N	2										2
Downbound	Domestic	5	773	1300	195.0	35.0	2	8.6	2.0	0.0	166	2006 N	2										2
Downbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2006 N	5								5		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2006 N	3								3		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	190	2006 N	5								5		
Downbound	Domestic	4	1031	1530	195.0	35.0	2	9.0	1.6	0.4	170	2006 N	1								1		
Downbound	Domestic	4	1056	2000	200.0	35.0	2	9.0	1.3	0.7	160	2006 N	2								2		
Downbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.6	-0.6	207	2006 N	1								1		
Downbound	Domestic	4	909	1442	195.0	35.0	2	9.0	1.9	0.1	203	2006	1								1		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2006	1								1		
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2006	2				2						
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2006 N	3				3						
Downbound	Domestic	4	000687	1534	200.0	35.0	8	9.0	1.6	6.4	160	2006	1				1						
Downbound	Domestic	4	676	1501	195.0	35.0	9	9.0	1.6	7.4	168	2006 N	1				1						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2006	1				1						
Downbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2006 N	1				1						
Downbound	Domestic	4	687	1574	195.0	35.0	9	9.0	1.3	7.7	145	2006	1				1						
Downbound	Domestic	4	823	1536	200.0	35.0	9	9.0	1.6	7.4	175	2006 N	1				1						
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2006	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2006	2								2		
Downbound	Domestic	4	531	1535	195.0	35.0	2	9.0	1.5	0.5	192	2006 N	1								1		
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2006 N	1										1
Downbound	Domestic	4	735	1885	200.0	35.0	2	10.0	1.4	0.6	176	2006 N	3								3		
Downbound	Domestic	5	1892	3000	297.0	54.0	8	8.5	2.0	6.0	100	2006	1						1				
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2006	4				4						
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2006	7				7						
Downbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2006	4						4				
Downbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2006 N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2006 N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2006	N	2								2		
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	2.0	8.0	220	2006		3						3				
Downbound	Domestic	4	206	414	61.5	31.2	8	9.0	2.0	6.0	125	2006		5				5						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2006		1				1						
Downbound	Domestic	4	701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2006	N	2				2						
Downbound	Domestic	4	736	1638	200.0	35.0	8	9.0	1.6	6.4	176	2006	N	1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2006	N	12								12		
Downbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	189	2006	N	1				1						
Downbound	Domestic	4	848	1524	195.0	35.0	2	9.0	1.6	0.4	185	2006		3								3		
Downbound	Domestic	4	705	2300	200.0	35.0	2	9.0	1.4	0.6	160	2006		2								2		
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2006		1								1		
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.6	0.4	155	2006	N	1								1		
Downbound	Domestic	4	994	1475	195.0	35.0	2	9.0	1.6	0.4	189	2006	N	3								3		
Downbound	Domestic	4	685	1728	195.0	35.0	2	10.0	1.6	0.4	176	2006	N	1								1		
Downbound	Domestic	4	879	1455	195.0	35.0	2	9.0	1.5	0.5	172	2006	N	2								2		
Downbound	Domestic	4	1009	1683	200.0	35.0	2	9.0	1.2	0.8	193	2006	N	4								4		
Downbound	Domestic	4	711	1732	195.0	35.0	1	10.0	1.6	-0.6	192	2006	N	3								3		
Downbound	Domestic	5	773	1811	195.0	35.0	2	9.0	2.0	0.0	165	2006	N	1										1
Downbound	Domestic	4	833	1524	195.0	35.0	9	9.0	1.6	7.4	185	2006		1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2006		1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2006		5				5						
Downbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2006	N	2				2						
Downbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2006	N	1				1						
Downbound	Domestic	4	745	1524	195.0	35.0	9	9.0	1.5	7.5	157	2006	N	1				1						
Downbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2006	N	3				3						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2006		1				1						
Downbound	Domestic	4	1065	1659	200.0	35.0	2	9.0	1.5	0.5	196	2006		1								1		
Downbound	Domestic	4	706	1563	200.0	35.0	2	9.0	1.7	0.3	205	2006		1								1		
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	225	2006	N	2										2
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2006		1								1		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.8	0.2	189	2006	N	1								1		
Downbound	Domestic	4	888	1500	195.0	35.0	2	9.0	1.7	0.3	149	2006	N	5								5		
Downbound	Domestic	4	931	1655	200.0	35.0	2	9.0	1.5	0.5	190	2006	N	2								2		
Downbound	Domestic	5	741	1481	195.0	35.0	10	10.0	2.0	8.0	170	2006		2						2				
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2006		2				2						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2006		1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2006		1				1						
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2006	N	1				1						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2006	N	4				4						
Downbound	Domestic	4	823	2178	200.0	35.0	10	12.0	1.8	8.2	225	2006		1				1						
Downbound	Domestic	3	345	999999	138.5	34.5	8	8.6	7.0	1.0	350	2006		7		7								
Downbound	Domestic	4	823	1750	200.0	35.0	2	10.0	1.6	0.4	165	2006		1								1		
Downbound	Domestic	4	687	1450	195.0	35.0	2	9.0	1.6	0.4	166	2006		1								1		
Downbound	Domestic	4	910	1489	195.0	35.0	2	9.0	1.7	0.3	145	2006		1								1		
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2006	N	1								1		
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	235	2006	N	2								2		
Downbound	Domestic	4	764	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2006		1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2006		2								2		
Downbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2006	N	3								3		
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2006		1								1		
Downbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2006		2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2006	N	4				4						
Downbound	Domestic	4	000680	943	200.0	35.0	8	10.0	1.6	6.4	180	2006	N	1				1						
Downbound	Domestic	4	000705	1617	200.0	35.0	9	9.0	1.6	7.4	205	2006	N	1				1						
Downbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2006	N	1				1						
Downbound	Domestic	4	687	1476	195.0	35.0	8	9.0	1.7	6.3	160	2006		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2006	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2006	N	1				1						
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2006	N	4				4						
Downbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2006		2								2		
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2006	N	4										4
Downbound	Domestic	4	000687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2006	N	1								1		
Downbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2006	N	3								3		
Downbound	Domestic	4	705	1646	200.0	35.0	2	9.0	1.5	0.5	165	2006		1								1		
Downbound	Domestic	5	1754	42440	297.5	54.0	2	11.0	1.5	0.5	200	2006	N	1										1
Downbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2006		2				2						
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2006	N	4				4						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2006	N	2				2						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2006		2				2						
Downbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2006	N	1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2006	N	13								13		
Downbound	Domestic	4	705	2077	200.0	35.0	7	11.0	1.0	6.0	120	2006		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2006	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	2	10.0	1.5	0.5	199	2006		1								1		
Downbound	Domestic	4	910	1574	195.0	35.0	2	9.0	1.6	0.4	206	2006		4								4		
Downbound	Domestic	5	822	1400	195.0	35.0	2	9.0	1.3	0.7	178	2006		1										1
Downbound	Domestic	5	740	1578	200.0	35.0	2	9.0	1.9	0.1	183	2006		2										2
Downbound	Domestic	4	688	2142	195.0	35.0	2	11.0	1.5	0.5	160	2006		1								1		
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2006	N	3								3		
Downbound	Domestic	4	764	1608	200.0	35.0	2	9.0	1.5	0.5	225	2006	N	1								1		
Downbound	Domestic	4	764	1558	200.0	35.0	2	9.0	1.5	0.5	160	2006		1								1		
Downbound	Domestic	4	783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2006	N	4								4		
Downbound	Domestic	4	735	1500	200.1	35.0	2	9.0	1.6	0.4	149	2006	N	3								3		
Downbound	Domestic	4	697	1729	195.0	35.0	2	10.0	1.5	0.5	176	2006	N	1								1		
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.5	0.5	215	2006	N	1								1		
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2006		3				3						
Downbound	Domestic	5	1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2006		8						8				
Downbound	Domestic	4	1051	1586	200.1	35.1	12	12.0	1.5	10.5	171	2006		1				1						
Downbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2006		1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2006	N	1				1						
Downbound	Domestic	4	975	1456	195.0	35.0	8	9.0	1.8	6.2	146	2006	N	1				1						
Downbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2006	N	1				1						
Downbound	Domestic	4	696	1200	200.0	35.0	9	9.0	1.6	7.4	150	2006		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2006	N	8								8		
Downbound	Domestic	4	196	412	61.6	31.2	2	9.0	2.0	0.0	125	2006		1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	2.0	0.0	180	2006	N	2								2		
Downbound	Domestic	5	894	1591	200.0	35.0	2	9.0	1.9	0.1	142	2006		2										2
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	165	2006		1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2006		3				3						
Downbound	Domestic	5	1632	3000	300.0	54.0	2	12.0	2.0	0.0	180	2006	N	2										2
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2006		3				3						
Downbound	Domestic	5	1697	4634	296.7	54.0	13	12.5	2.0	11.0	140	2006		1						1				
Downbound	Domestic	4	705	1501	200.0	35.0	9	12.0	1.5	7.5	186	2006	N	1				1						
Downbound	Domestic	4	687	1510	195.0	35.0	8	9.0	1.6	6.4	119	2006		1				1						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2006	N	2				2						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2006	N	1				1						
Downbound	Domestic	4	966	1659	200.0	35.0	9	9.0	1.5	7.5	160	2006		1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.5	0.5	217	2006		1								1		
Downbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.1	0.9	194	2006		2								2		
Downbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2006		2								2		
Downbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2006	N	1								1		
Downbound	Domestic	4	888	1520	195.0	35.0	2	9.0	1.6	0.4	180	2006	N	1								1		
Downbound	Domestic	4	000729	1673	200.0	35.0	2	9.0	1.4	0.6	160	2006	N	1								1		
Downbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2006	N	1								1		
Downbound	Domestic	4	676	1725	195.0	35.0	1	10.0	1.9	-0.9	200	2006	N	1								1		
Downbound	Domestic	3	76	999999	60.8	24.1	6	6.6	6.0	0.0	310	2006		1		1								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2006	N	7										7
Downbound	Domestic	4	687	1436	195.0	35.0	8	9.0	1.9	6.1	160	2006	N	1				1						
Downbound	Domestic	4	952	1450	200.0	35.0	9	9.0	2.0	7.0	165	2006	N	1				1						
Downbound	Domestic	4	698	1475	195.0	35.0	2	9.0	1.6	0.4	189	2006	N	8								8		
Downbound	Domestic	4	950	1500	200.0	35.0	2	9.0	1.9	0.1	149	2006	N	2								2		
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2006	N	3								3		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	165	2006		1								1		
Downbound	Domestic	4	700	1511	195.0	35.0	2	9.0	1.6	0.4	204	2006	N	1								1		
Downbound	Domestic	4	764	1518	200.0	35.0	2	9.0	1.8	0.2	205	2006	N	1								1		
Downbound	Domestic	5	1593	3240	298.0	54.0	12	12.0	1.8	10.2	185	2006		5						5				
Downbound	Domestic	4	206	414	61.6	31.2	7	8.9	1.9	5.1	125	2006		1				1						
Downbound	Domestic	4	706	1614	200.0	35.0	8	9.0	1.2	6.8	145	2006		1				1						
Downbound	Domestic	5	1414	3100	256.5	54.0	9	10.0	2.0	7.0	170	2006		1						1				
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2006	N	2				2						
Downbound	Domestic	4	705	1647	200.0	35.0	8	9.0	1.4	6.6	205	2006	N	1				1						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2006	N	1				1						
Downbound	Domestic	4	000687	1519	195.0	35.0	9	9.0	1.7	7.3	186	2006		1				1						
Downbound	Domestic	4	848	1525	195.0	35.0	8	9.0	1.6	6.4	160	2006		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2006	N	2								2		
Downbound	Domestic	4	848	1524	195.0	35.0	2	9.0	1.6	0.4	185	2006	N	2								2		
Downbound	Domestic	4	1024	1426	195.0	35.0	2	9.0	1.9	0.1	220	2006	N	1								1		
Downbound	Domestic	4	687	2000	195.0	35.0	2	9.0	1.7	0.3	160	2006	N	1								1		
Downbound	Domestic	4	000705	1699	200.0	35.0	2	9.0	1.2	0.8	145	2006	N	1								1		
Downbound	Domestic	5	798	1477	195.0	35.0	2	9.0	2.0	0.0	173	2006	N	1										1
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2006		7				7						
Downbound	Domestic	4	1009	1636	195.0	35.0	8	9.0	1.6	6.4	193	2006		1				1						
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2006		3				3						
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2006	N	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.9	7.1	220	2006	N	1				1						
Downbound	Domestic	4	931	1655	200.0	35.0	8	9.0	1.5	6.5	190	2006	N	2				2						
Downbound	Domestic	4	823	2280	200.0	35.0	9	12.0	1.8	7.2	224	2006	N	1				1						
Downbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2006		1				1						
Downbound	Domestic	4	688	1495	195.0	35.0	2	9.0	1.9	0.1	169	2006	N	1								1		
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2006		1								1		
Downbound	Domestic	4	705	1859	200.0	35.0	2	10.0	2.0	0.0	165	2006		1								1		
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2006		2				2						
Downbound	Domestic	4	823	2398	200.0	35.0	11	13.0	2.0	9.0	165	2006		1				1						
Downbound	Domestic	4	000745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2006	N	1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2006	N	5				5						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2006	N	2				2						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2006	N	1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2006	N	1				1						
Downbound	Domestic	4	685	1550	195.0	35.0	8	9.0	1.5	6.5	190	2006	N	2				2						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2006		1				1						
Downbound	Domestic	4	700	1510	195.0	35.0	8	9.0	1.4	6.6	208	2006		1				1						
Downbound	Domestic	4	196	375	61.5	31.0	2	9.0	2.0	0.0	130	2006		2								2		
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2006		28		28								
Downbound	Domestic	4	000705	1616	200.0	35.0	2	9.0	1.6	0.4	205	2006	N	1								1		
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2007	N	6			6							
Upbound	Domestic	4	1008	1600	200.0	35.0	8	9.0	1.6	6.4	170	2007	N	1			1							
Upbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2007	N	2			2							
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2007	N	3			3							
Upbound	Domestic	4	1065	1716	200.0	35.0	8	9.0	1.1	6.9	145	2007	N	2			2							
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2007		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	186	2007	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	5	9.0	1.6	3.4	204	2007	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	1							1			
Upbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2007	N	1							1			
Upbound	Domestic	5	773	1428	195.1	35.1	2	8.7	1.7	0.3	170	2007	N	1									1	
Upbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2007		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	186	2007	N	2			2							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2007		1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	9	9.0	1.8	7.2	225	2007	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2007	N	5			5							
Upbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2007	N	1			1							
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2007		1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2007	N	1			1							
Upbound	Domestic	5	001754	4329	297.5	54.0	2	13.0	2.0	0.0	176	2007		6									6	
Upbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2007	N	4		4								
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2007	N	1			1							
Upbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2007	N	2			2							
Upbound	Domestic	4	745	1714	195.0	35.0	7	9.0	1.6	5.4	210	2007	N	1			1							
Upbound	Domestic	4	823	2305	200.0	35.0	9	13.6	1.8	7.2	190	2007		1			1							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2007		4			4							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2007	N	1			1							
Upbound	Domestic	4	745	1504	195.0	35.0	9	9.0	1.6	7.4	166	2007	N	1			1							
Upbound	Domestic	4	705	1667	200.0	35.0	6	9.0	1.7	4.3	170	2007		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	10			10							
Upbound	Domestic	4	000687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2007		2			2							
Upbound	Domestic	4	764	1910	200.0	35.0	6	9.0	2.0	4.0	195	2007		1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2007	N	1			1							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2007		5			5							
Upbound	Domestic	4	764	1521	200.0	35.0	7	9.0	1.9	5.1	225	2007	N	3			3							
Upbound	Domestic	4	745	2345	195.0	35.0	5	9.0	1.6	3.4	209	2007	N	1			1							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2007	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	9	12.0	1.5	7.5	186	2007	N	1			1							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	204	2007	N	3			3							
Upbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2007		1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.6	5.4	225	2007	N	1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	2			2							
Upbound	Domestic	4	764	2400	200.0	35.0	9	9.0	1.5	7.5	225	2007	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	13	11.0	1.8	11.2	230	2007		2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2007	N	4							4			
Upbound	Domestic	4	783	1902	195.0	35.0	1	11.0	1.9	-0.9	199	2007	N	1							1			
Upbound	Domestic	4	682	1722	195.0	35.0	10	10.0	1.6	8.4	204	2007	N	1			1							
Upbound	Domestic	4	1081	1676	200.0	35.0	8	9.0	1.3	6.7	146	2007	N	1			1							
Upbound	Domestic	4	000764	1400	200.0	35.0	9	11.0	1.5	7.5	130	2007	N	1			1							
Upbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2007	N	1			1							
Upbound	Domestic	3	108	999999	66.0	24.0	7	10.0	9.5	-2.5	320	2007		1		1								
Upbound	Domestic	5	001619	3500	297.6	54.0	2	9.0	1.0	1.0	220	2007		2									2	
Upbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2007	N	1							1			
Upbound	Domestic	4	000823	2297	200.0	35.0	9	12.0	1.6	7.4	225	2007		1			1							
Upbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2007		1			1							
Upbound	Domestic	4	706	1563	200.0	35.0	7	9.0	1.7	5.3	205	2007	N	2			2							
Upbound	Domestic	4	823	2100	200.0	35.0	8	11.8	2.0	6.0	240	2007		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2007	N	3			3							
Upbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2007	N	2			2							
Upbound	Domestic	4	764	1517	200.0	35.0	7	9.0	1.9	5.1	225	2007	N	3			3							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2007	N	2			2							
Upbound	Domestic	4	907	1733	195.0	35.0	9	10.0	1.6	7.4	200	2007	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	7	9.0	1.4	5.6	148	2007	N	1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2007		23		23								
Upbound	Domestic	3	533	999999	140.0	42.0	8	8.6	6.6	1.4	430	2007		1		1								
Upbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2007		3		3								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2007	N	2			2							
Upbound	Domestic	4	687	1629	195.0	35.0	7	9.0	1.4	5.6	132	2007		2			2							
Upbound	Domestic	4	706	1627	200.0	35.0	7	9.0	1.3	5.7	155	2007	N	1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	146	2007	N	1			1							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2007	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2007	N	5			5							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2007	N	1			1							
Upbound	Domestic	4	966	1658	200.0	35.0	8	9.0	1.5	6.5	200	2007		2			2							
Upbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2007	N	1							1			
Upbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2007		1			1							
Upbound	Domestic	5	740	1578	200.0	35.0	5	9.0	1.9	3.1	183	2007	N	0					0					
Upbound	Domestic	4	735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2007	N	1			1							
Upbound	Domestic	4	823	2410	200.0	35.0	9	14.0	1.5	7.5	190	2007		3			3							
Upbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2007	N	1			1							
Upbound	Domestic	4	685	1550	195.0	35.0	8	9.0	1.5	6.5	190	2007	N	2			2							
Upbound	Domestic	4	001102	1659	200.0	35.0	9	9.0	1.4	7.6	146	2007	N	1			1							
Upbound	Domestic	4	687	2000	195.0	35.0	9	9.0	1.7	7.3	160	2007	N	1			1							
Upbound	Domestic	5	2223	3400	297.5	54.0	2	10.0	2.0	0.0	180	2007		1									1	
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2007	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2007	N	2			2							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	140	2007		1			1							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	225	2007	N	3					3					
Upbound	Domestic	4	000823	2297	200.0	35.0	8	12.0	1.6	6.4	225	2007		1			1							
Upbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2007	N	6									6	
Upbound	Domestic	4	687	1501	195.0	35.0	8	12.0	1.5	6.5	186	2007	N	2			2							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2007	N	3			3							
Upbound	Domestic	4	888	1500	195.0	35.0	8	12.0	2.0	6.0	149	2007	N	1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2007		17		17								
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2007		5		5								
Upbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2007		10									10	
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2007		1			1							
Upbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2007	N	3			3							
Upbound	Domestic	4	730	1664	200.0	35.0	8	9.0	1.6	6.4	160	2007		3			3							
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2007	N	15			15							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2007	N	7			7							
Upbound	Domestic	4	698	1536	195.0	35.0	8	9.0	1.5	6.5	196	2007	N	1			1							
Upbound	Domestic	5	002424	2213	295.0	50.0	2	9.0	2.5	-0.5	280	2007	N	3									3	
Upbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2007		1							1			
Upbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2007		1			1							
Upbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2007	N	1			1							
Upbound	Domestic	4	000705	3098	200.0	35.0	6	12.0	1.6	4.4	147	2007		1			1							
Upbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2007		1			1							
Upbound	Domestic	4	601	1626	195.0	35.0	6	9.0	1.4	4.6	146	2007		1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2007	N	1			1							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2007	N	4			4							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	189	2007	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2007	N	5							5			
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2007		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	166	2007	N	1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2007		19		19								
Upbound	Domestic	5	741	1481	195.0	35.0	2	10.0	2.0	0.0	170	2007		2									2	
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2007		5									5	
Upbound	Domestic	3	93	999999	85.5	27.4	7	8.3	7.0	0.0	166	2007		1		1								
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2007		3									3	
Upbound	Domestic	4	823	2319	200.0	35.0	9	12.0	1.3	7.7	227	2007		1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	240	2007		1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	8	14.0	1.6	6.4	211	2007	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2007		2			2							
Upbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	146	2007		1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2007		2			2							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2007	N	2			2							
Upbound	Domestic	4	000745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2007	N	1			1							
Upbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2007	N	1			1							
Upbound	Domestic	4	745	1458	195.0	35.0	7	9.0	1.9	5.1	205	2007	N	1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2007	N	3							3			
Upbound	Domestic	4	000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2007	N	1			1							
Upbound	Domestic	4	1024	1423	195.0	35.0	8	9.0	1.9	6.1	212	2007	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2007	N	1			1							
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2007		4									4	
Upbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2007		1		1								
Upbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	168	2007		1							1			
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2007		2			2							
Upbound	Domestic	4	700	1487	195.0	35.0	10	11.0	1.7	8.3	180	2007		1			1							
Upbound	Domestic	4	888	1529	195.0	35.0	8	9.0	1.5	6.5	160	2007		5			5							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2007	N	24			24							
Upbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2007	N	1			1							
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2007	N	2			2							
Upbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2007		1			1							
Upbound	Domestic	4	206	414	61.5	31.2	8	9.0	2.0	6.0	125	2007		52			52							
Upbound	Domestic	4	471	1510	195.0	35.0	6	9.0	1.6	4.4	119	2007		1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2007		1			1							
Upbound	Domestic	4	705	1648	200.0	35.0	8	12.0	1.5	6.5	186	2007	N	1			1							
Upbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2007	N	3			3							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2007		3			3							
Upbound	Domestic	4	000705	1647	200.0	35.0	8	9.0	1.5	6.5	205	2007	N	1			1							
Upbound	Domestic	5	2147	3400	297.5	54.0	2	10.0	2.0	0.0	180	2007		3									3	
Upbound	Domestic	3	62	999999	85.6	27.4	7	8.0	6.5	0.5	149	2007		3		3								
Upbound	Domestic	5	773	1475	195.1	35.1	2	9.0	1.8	0.2	169	2007	N	1									1	
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2007		1			1							
Upbound	Domestic	4	696	1648	200.0	35.0	9	9.0	1.6	7.4	160	2007	N	1			1							
Upbound	Domestic	4	689	1470	195.0	35.0	8	9.0	1.7	6.3	188	2007		1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2007	N	2			2							
Upbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2007		1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.5	5.5	225	2007	N	1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	1			1							
Upbound	Domestic	5	1876	3400	297.5	54.0	2	10.0	2.0	0.0	170	2007		6									6	
Upbound	Domestic	5	1754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2007		4									4	
Upbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2007		3			3							
Upbound	Domestic	4	705	2000	195.0	35.0	9	12.0	1.5	7.5	146	2007		1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2007		2			2							
Upbound	Domestic	4	705	1600	200.0	35.0	7	9.0	1.6	5.4	170	2007	N	1			1							
Upbound	Domestic	4	960	1672	200.0	35.0	8	9.0	1.5	6.5	209	2007		1			1							
Upbound	Domestic	4	1051	1586	200.1	35.1	9	8.7	1.5	7.5	171	2007		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	6	9.0	1.8	4.2	225	2007	N	2			2							
Upbound	Domestic	4	770	1889	200.0	35.0	6	10.0	1.5	4.5	149	2007		1			1							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2007	N	16			16							
Upbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2007	N	1			1							
Upbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2007	N	5			5							
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2007	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2007	N	2			2							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2007	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	7	9.0	1.6	5.4	180	2007	N	1			1							
Upbound	Domestic	4	676	1498	195.0	35.0	7	9.0	1.7	5.3	170	2007	N	1			1							
Upbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2007		1			1							
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2007	N	4									4	
Upbound	Domestic	5	1455	3200	290.0	54.0	2	10.0	2.0	0.0	170	2007		1									1	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	823	2291	200.0	35.0	9	12.0	1.5	7.5	225	2007		4			4							
Upbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2007		1			1							
Upbound	Domestic	4	471	1510	195.0	35.0	8	9.0	1.6	6.4	119	2007		2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2007	N	8			8							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2007	N	11			11							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2007	N	13			13							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2007		1			1							
Upbound	Domestic	4	764	1546	200.0	35.0	7	9.0	1.5	5.5	170	2007		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2007		1			1							
Upbound	Domestic	5	2356	2500	270.0	50.0	2	9.0	3.0	-1.0	230	2007		2									2	
Upbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2007	N	1							1			
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2007	N	5			5							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2007		1			1							
Upbound	Domestic	4	950	1677	200.0	35.0	8	9.0	1.4	6.6	150	2007		1			1							
Upbound	Domestic	4	706	1614	200.0	35.0	8	9.0	1.2	6.8	145	2007	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	7	11.0	4.0	3.0	170	2007		1			1							
Upbound	Domestic	4	931	1655	200.0	35.0	8	9.0	1.5	6.5	190	2007	N	3			3							
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2007		5									5	
Upbound	Domestic	4	823	2279	200.0	35.0	6	7.6	1.6	4.4	160	2007		2			2							
Upbound	Domestic	5	000795	1478	195.0	35.0	9	9.0	1.8	7.2	178	2007	N	2					2					
Upbound	Domestic	4	689	1470	195.0	35.0	9	9.0	1.7	7.3	188	2007		3			3							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2007	N	4			4							
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2007	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	2							2			
Upbound	Domestic	4	770	1889	200.0	35.0	5	10.0	1.5	3.5	149	2007		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	6	9.0	1.6	4.4	225	2007	N	1			1							
Upbound	Domestic	5	891	1580	200.0	35.0	5	9.0	1.9	3.1	142	2007	N	0					0					
Upbound	Domestic	4	196	375	61.6	31.2	9	9.0	1.8	7.2	125	2007		4			4							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2007	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2007	N	1			1							
Upbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	165	2007	N	2									2	
Upbound	Domestic	4	694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2007	N	1			1							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2007	N	4			4							
Upbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2007	N	2			2							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2007	N	2			2							
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2007		8									8	
Upbound	Domestic	5	891	1580	200.0	35.0	6	9.0	1.9	4.1	142	2007	N	1					1					
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2007	N	8			8							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2007		1			1							
Upbound	Domestic	4	952	1670	200.0	35.0	8	9.0	1.4	6.6	208	2007		1			1							
Upbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2007	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2007	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	13.0	1.6	6.4	230	2007		1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	8			8							
Upbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	11			11							
Upbound	Domestic	4	654	1743	195.0	35.0	8	10.0	1.6	6.4	176	2007	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2007		4			4							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2007	N	16			16							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2007		1			1							
Upbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	1			1							
Upbound	Domestic	4	000745	1495	195.0	35.0	7	9.0	1.7	5.3	225	2007	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	6	10.0	3.0	3.0	170	2007		1			1							
Upbound	Domestic	5	773	1470	195.0	35.0	2	9.0	1.8	0.2	186	2007	N	1									1	
Upbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	6							6			
Upbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2007		1		1								
Upbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2007		1		1								
Upbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2007		3			3							
Upbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2007	N	1			1							
Upbound	Domestic	4	985	1520	195.0	35.0	8	9.0	1.6	6.4	160	2007		5			5							
Upbound	Domestic	5	835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2007	N	2					2					
Upbound	Domestic	5	740	1578	200.0	35.0	8	9.0	1.9	6.1	183	2007	N	2					2					
Upbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2007	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	234	2007	N	1			1							
Upbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2007	N	6									6	
Upbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2007	N	3			3							
Upbound	Domestic	4	888	1500	195.1	35.0	8	9.0	1.6	6.4	149	2007	N	1			1							
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2007		15		15								
Upbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2007		3		3								
Upbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2007	N	2									2	
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.6	6.4	155	2007		1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2007	N	2			2							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2007		2			2							
Upbound	Domestic	4	687	1629	195.0	35.0	6	9.0	1.4	4.6	132	2007		1			1							
Upbound	Domestic	4	950	1650	200.0	35.0	8	9.0	1.5	6.5	190	2007		2			2							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	2			2							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2007	N	2			2							
Upbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2007	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	13	12.0	1.8	11.2	230	2007		1			1							
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2007	N	5			5							
Upbound	Domestic	4	000764	1650	200.0	35.0	7	12.0	1.5	5.5	208	2007	N	2			2							
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2007	N	1			1							
Upbound	Domestic	4	735	1500	200.1	35.0	8	9.0	1.6	6.4	149	2007	N	2			2							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2007		1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	7	12.0	1.8	5.2	170	2007		1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2007	N	3			3							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2007	N	5							5			
Upbound	Domestic	5	1961	3500	297.5	54.0	2	8.5	2.0	0.0	100	2007		4									4	
Upbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2007	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2007	N	3			3							
Upbound	Domestic	4	000764	2202	200.0	35.0	9	13.0	2.0	7.0	208	2007		1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	9	9.0	1.6	7.4	206	2007		5			5							
Upbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2007		1			1							
Upbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2007	N	1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2007	N	4			4							
Upbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.5	7.5	180	2007	N	1			1							
Upbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2007	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2007	N	6			6							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	160	2007	N	1			1							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2007		1			1							
Upbound	Domestic	5	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2007	N	2									2	
Upbound	Domestic	5	798	1600	195.0	35.0	2	10.0	1.5	0.5	165	2007		4									4	
Upbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2007	N	1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	7	12.0	2.0	5.0	213	2007		1			1							
Upbound	Domestic	5	000891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2007	N	1					1					
Upbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2007	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2007	N	10			10							
Upbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2007	N	5			5							
Upbound	Domestic	4	687	1508	195.0	35.0	8	9.0	1.5	6.5	223	2007		1			1							
Upbound	Domestic	4	986	1477	195.0	35.0	9	9.0	1.8	7.2	205	2007	N	1			1							
Upbound	Domestic	4	937	1639	200.0	35.0	9	9.0	1.6	7.4	160	2007		1			1							
Upbound	Domestic	5	716	1450	195.0	35.0	7	8.5	2.7	4.3	145	2007		2					2					
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2007	N	4					4					
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2007		1			1							
Upbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2007	N	2			2							
Upbound	Domestic	4	783	1937	195.0	35.0	9	11.0	1.8	7.2	210	2007	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2007	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	1223	1651	200.0	35.0	9	8.9	1.5	7.5	145	2007	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2007		1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2007	N	2			2							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2007		1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	7	12.0	1.8	5.2	130	2007	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.1	8	10.0	1.6	6.4	210	2007	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2007	N	3			3							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2007		2			2							
Upbound	Domestic	4	907	1733	195.0	35.0	1	10.0	1.6	-0.6	200	2007	N	1							1			
Upbound	Domestic	4	981	1600	200.0	35.0	8	9.0	1.0	7.0	172	2007	N	1			1							
Upbound	Domestic	4	764	1497	200.0	35.0	7	9.0	1.9	5.1	205	2007	N	1			1							
Upbound	Domestic	4	823	2280	200.0	35.0	9	12.0	1.4	7.6	223	2007		1			1							
Upbound	Domestic	4	206	414	61.6	31.2	9	8.6	2.0	7.0	125	2007		3			3							
Upbound	Domestic	4	960	1672	200.0	35.0	8	9.0	1.3	6.7	208	2007		2			2							
Upbound	Domestic	4	687	1633	195.0	35.0	9	9.0	1.4	7.6	133	2007		1			1							
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2007	N	2			2							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2007	N	2			2							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2007		3			3							
Upbound	Domestic	4	823	1640	200.0	35.0	7	9.0	1.5	5.5	220	2007	N	2			2							
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2007	N	5			5							
Upbound	Domestic	3	204	999999	91.5	32.0	7	7.6	6.0	1.0	436	2007		2		2								
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2007	N	1			1							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2007	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.7	6.3	240	2007		1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2007		1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	7	9.0	1.7	5.3	225	2007	N	2			2							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2007	N	18			18							
Upbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2007		1			1							
Upbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2007	N	2			2							
Upbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2007	N	1			1							
Upbound	Domestic	4	902	1643	200.0	35.0	1	9.6	1.5	-0.5	194	2007	N	1							1			
Upbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2007	N	1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	7	9.0	1.5	5.5	145	2007	N	1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	8	9.0	2.0	6.0	190	2007	N	1			1							
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2007		6		6								
Upbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2007	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2007		1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2007		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.6	8.4	165	2007		1			1							
Upbound	Domestic	4	996	1659	200.0	35.0	9	9.0	1.5	7.5	160	2007		1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2007		1			1							
Upbound	Domestic	5	001918	3100	297.5	54.0	9	10.3	2.0	7.0	193	2007		1					1					
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	4			4							
Upbound	Domestic	4	705	1578	200.0	35.0	7	9.0	1.5	5.5	180	2007	N	3			3							
Upbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2007	N	1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2007	N	6			6							
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2007	N	13			13							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2007	N	6			6							
Upbound	Domestic	4	546	1900	200.0	35.0	8	9.0	2.0	6.0	190	2007	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	6	10.0	1.7	4.3	190	2007		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2007	N	1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2007	N	6			6							
Upbound	Domestic	4	700	1520	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	1			1							
Upbound	Domestic	4	705	3098	200.0	35.0	9	9.0	1.6	7.4	147	2007	N	1			1							
Upbound	Domestic	4	823	2289	200.0	35.0	9	12.0	1.6	7.4	240	2007		4			4							
Upbound	Domestic	4	888	1529	195.0	35.0	9	9.0	1.5	7.5	160	2007		2			2							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2007		2			2							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	4			4							
Upbound	Domestic	4	933	1527	195.0	35.0	8	9.0	1.5	6.5	199	2007	N	1			1							
Upbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2007	N	2			2							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2007		1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2007	N	3			3							
Upbound	Domestic	4	000705	1612	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2007	N	2			2							
Upbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2007	N	1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2007	N	1							1			
Upbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	132	2007		1							1			
Upbound	Domestic	4	705	1885	200.0	35.0	1	9.0	1.4	-0.4	208	2007	N	1							1			
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2007	N	4			4							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2007		2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2007	N	13			13							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2007	N	4			4							
Upbound	Domestic	4	001020	1633	200.0	35.0	9	9.0	1.6	7.4	149	2007	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	10	10.0	1.5	8.5	206	2007	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2007	N	5			5							
Upbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.5	6.5	223	2007		1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2007	N	3			3							
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2007	N	2			2							
Upbound	Domestic	4	000764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2007	N	1			1							
Upbound	Domestic	4	705	1648	200.0	35.0	7	12.0	1.5	5.5	186	2007	N	1			1							
Upbound	Domestic	4	546	1450	200.0	35.0	8	9.0	2.0	6.0	190	2007	N	1			1							
Upbound	Domestic	4	654	1720	195.0	35.0	8	10.0	1.6	6.4	176	2007	N	1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2007	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	180	2007	N	1			1							
Upbound	Domestic	4	823	2295	200.0	35.0	9	12.0	1.4	7.6	227	2007		1			1							
Upbound	Domestic	5	001754	4329	297.5	54.0	10	13.0	2.0	8.0	176	2007		1					1					
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2007		12			12							
Upbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2007		3			3							
Upbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2007		2			2							
Upbound	Domestic	4	764	1607	200.0	35.0	6	9.0	1.4	4.6	165	2007	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2007		1			1							
Upbound	Domestic	4	913	1539	200.1	35.1	8	9.0	1.6	6.4	136	2007	N	1			1							
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2007		21		21								
Upbound	Domestic	5	2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2007	N	1									1	
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2007	N	4			4							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2007	N	3			3							
Upbound	Domestic	4	823	2188	200.0	35.0	7	12.0	1.6	5.4	225	2007		1			1							
Upbound	Domestic	4	705	1570	200.0	35.0	8	9.0	1.5	6.5	150	2007		1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2007		2			2							
Upbound	Domestic	4	764	1610	200.0	35.0	9	9.0	1.6	7.4	165	2007	N	1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	4			4							
Upbound	Domestic	4	687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2007	N	1			1							
Upbound	Domestic	4	848	2176	200.0	35.0	8	12.0	1.1	6.9	190	2007		1			1							
Upbound	Domestic	5	1754	3665	297.5	54.0	2	12.0	2.0	0.0	180	2007		4									4	
Upbound	Domestic	5	1521	3600	294.5	54.0	2	10.0	2.0	0.0	170	2007		3									3	
Upbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2007		1							1			
Upbound	Domestic	4	687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	1							1			
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	155	2007		1			1							
Upbound	Domestic	4	205	414	61.5	31.2	8	9.0	1.5	6.5	125	2007		1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.6	6.4	155	2007	N	1			1							
Upbound	Domestic	4	730	1664	200.0	35.0	8	9.0	1.4	6.6	148	2007	N	1			1							
Upbound	Domestic	4	771	1541	200.0	35.0	6	9.0	1.6	4.4	212	2007		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2007	N	1			1							
Upbound	Domestic	4	000745	2005	195.0	35.0	8	11.5	1.5	6.5	130	2007		1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2007	N	11			11							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	155	2007		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2007		3					3					
Upbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2007	N	2									2	
Upbound	Domestic	4	687	1571	195.0	35.0	8	9.0	1.3	6.7	145	2007	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	7	9.0	1.6	5.4	215	2007	N	1			1							
Upbound	Domestic	4	848	1525	195.0	35.0	8	9.0	1.6	6.4	160	2007		1			1							
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2007		16		16								
Upbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2007	N	4			4							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2007		4			4							
Upbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.5	8.5	165	2007		1			1							
Upbound	Domestic	4	705	1554	200.0	35.0	6	9.0	1.5	4.5	150	2007		4			4							
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2007		2			2							
Upbound	Domestic	4	763	2290	200.0	35.0	8	12.0	1.6	6.4	236	2007	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	6	12.0	1.5	4.5	208	2007	N	1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2007	N	5			5							
Upbound	Domestic	4	695	1532	195.0	35.0	8	9.0	1.5	6.5	146	2007	N	2			2							
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2007	N	9			9							
Upbound	Domestic	4	764	1558	200.0	35.0	6	9.0	1.5	4.5	160	2007		1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2007	N	1			1							
Upbound	Domestic	4	687	1436	195.0	35.0	9	9.0	1.9	7.1	160	2007	N	1			1							
Upbound	Domestic	4	001102	1664	200.0	35.0	2	9.0	1.5	0.5	146	2007	N	1							1			
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2007		6									6	
Upbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2007	N	2							2			
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	170	2007	N	1			1							
Upbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2007		1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2007		1			1							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2007		2			2							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2007		5			5							
Upbound	Domestic	4	1039	1623	200.0	35.0	9	9.0	1.7	7.3	146	2007	N	1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2007	N	1			1							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2007	N	12			12							
Upbound	Domestic	4	950	1666	200.0	35.0	8	9.0	1.4	6.6	180	2007	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	13			13							
Upbound	Domestic	4	000745	2005	195.0	35.0	9	11.5	1.5	7.5	130	2007		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	6	9.0	1.5	4.5	180	2007	N	1			1							
Upbound	Domestic	4	957	1680	200.0	35.0	8	9.0	1.5	6.5	145	2007		1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2007	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	6	9.0	1.8	4.2	205	2007	N	1			1							
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2007		20		20								
Upbound	Domestic	4	687	2000	195.0	35.0	2	9.0	1.7	0.3	160	2007	N	1							1			
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2007	N	1			1							
Upbound	Domestic	4	705	2200	195.0	35.0	8	12.0	2.0	6.0	146	2007		1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.6	6.4	206	2007		16			16							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	214	2007		1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	7	9.0	1.7	5.3	206	2007		1			1							
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2007		1			1							
Upbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.0	7.0	180	2007		1			1							
Upbound	Domestic	4	823	1674	200.0	35.0	7	9.0	1.3	5.7	145	2007	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2007		2			2							
Upbound	Domestic	4	701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2007	N	1			1							
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2007		4									4	
Upbound	Domestic	5	1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2007		2									2	
Upbound	Domestic	4	764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2007		1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2007		2			2							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2007		1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	6	9.0	1.5	4.5	170	2007		1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2007		1					1					
Upbound	Domestic	5	891	1580	200.0	35.0	8	9.0	1.9	6.1	142	2007	N	7					7					
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2007	N	1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	4			4							
Upbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2007	N	5			5							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2007	N	1			1							
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2007		1		1								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2007		2									2	
Upbound	Domestic	4	000764	2468	200.0	35.0	4	13.0	1.5	2.5	208	2007	N	1			1							
Upbound	Domestic	4	711	1520	195.0	35.0	8	9.0	1.6	6.4	160	2007		2			2							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2007		6			6							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2007		1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	7	9.0	1.4	5.6	160	2007		3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2007		3			3							
Upbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2007		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2007	N	3			3							
Upbound	Domestic	4	823	2077	200.0	35.0	11	12.0	1.5	9.5	215	2007		1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2007	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2007	N	1			1							
Upbound	Domestic	4	1009	1441	195.1	35.1	9	8.7	1.7	7.3	170	2007	N	1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	9	11.0	1.7	7.3	130	2007	N	1			1							
Upbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2007		2			2							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2007		4			4							
Upbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2007	N	3			3							
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2007	N	3			3							
Upbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2007	N	4			4							
Upbound	Domestic	4	000764	2468	200.0	35.0	7	12.0	1.5	5.5	208	2007	N	1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	7	10.0	1.5	5.5	206	2007	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2007	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2007	N	1							1			
Upbound	Domestic	4	685	1500	195.0	35.0	2	9.0	1.6	0.4	190	2007	N	1							1			
Upbound	Domestic	4	823	2297	200.0	35.0	8	12.0	1.5	6.5	225	2007		1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2007		1			1							
Upbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.6	6.4	180	2007		1			1							
Upbound	Domestic	4	706	1777	200.0	35.0	8	9.6	1.5	6.5	190	2007		1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2007		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2007		2			2							
Upbound	Domestic	4	688	1540	200.0	35.0	9	9.0	1.5	7.5	210	2007		2			2							
Upbound	Domestic	4	745	1916	195.0	35.0	6	11.0	1.5	4.5	149	2007		1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2007		2			2							
Upbound	Domestic	4	564	1619	200.0	35.0	7	9.0	1.6	5.4	160	2007	N	2			2							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2007		1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	7	9.0	1.8	5.2	205	2007	N	1			1							
Upbound	Domestic	5	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	3									3	
Upbound	Domestic	5	2360	2500	270.0	50.0	2	9.0	3.0	-1.0	230	2007		1									1	
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2007		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2007	N	12			12							
Upbound	Domestic	4	708	2125	195.0	35.0	8	14.0	1.7	6.3	218	2007	N	1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2007	N	5			5							
Upbound	Domestic	4	764	2098	200.0	35.0	6	11.0	1.5	4.5	218	2007	N	1			1							
Upbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2007	N	1			1							
Upbound	Domestic	4	764	1607	200.0	35.0	8	9.0	1.4	6.6	165	2007	N	1			1							
Upbound	Domestic	3	64	64	64.0	26.0	7	7.5	6.0	1.0	496	2007		1		1								
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2007		1			1							
Upbound	Domestic	4	000764	2528	200.0	35.0	9	13.0	1.5	7.5	155	2007		1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2007		1			1							
Upbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2007	N	5									5	
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	4			4							
Upbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2007	N	1			1							
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2007	N	10			10							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2007	N	7			7							
Upbound	Domestic	4	600	1650	200.0	35.0	7	9.0	1.5	5.5	208	2007	N	2			2							
Upbound	Domestic	4	000705	1617	200.0	35.0	7	9.0	1.6	5.4	205	2007	N	1			1							
Upbound	Domestic	4	618	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	1							1			
Upbound	Domestic	5	773	1428	195.1	35.1	8	8.7	1.7	6.3	170	2007	N	1					1					
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2007		15		15								
Upbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2007	N	3									3	
Upbound	Domestic	5	766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2007	N	2									2	
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2007		5			5							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	8			8							
Upbound	Domestic	4	705	1880	200.0	35.0	7	10.0	1.4	5.6	140	2007		1			1							
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2007	N	2			2							
Upbound	Domestic	4	764	1652	200.0	35.0	8	10.0	1.4	6.6	210	2007	N	1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	7	9.0	1.7	5.3	165	2007	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	225	2007	N	1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2007	N	4			4							
Upbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2007		2			2							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2007		2			2							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	165	2007	N	1			1							
Upbound	Domestic	5	622	1500	195.0	35.0	2	9.0	2.0	0.0	185	2007	N	1									1	
Upbound	Domestic	4	705	1650	200.0	35.0	8	12.0	1.5	6.5	195	2007	N	4			4							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	145	2007	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2007	N	9			9							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2007	N	1			1							
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2007		4									4	
Upbound	Domestic	3	114	999999	90.0	28.0	7	8.0	7.0	0.0	280	2007		1		1								
Upbound	Domestic	4	886	1531	195.1	35.1	2	9.0	1.7	0.3	135	2007		1							1			
Upbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2007		2			2							
Upbound	Domestic	4	206	414	61.6	31.2	8	8.6	2.0	6.0	125	2007		11			11							
Upbound	Domestic	4	1020	1544	200.0	35.0	9	9.0	1.5	7.5	135	2007	N	1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2007		6			6							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2007	N	1			1							
Upbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2007	N	4			4							
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2007		2			2							
Upbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2007	N	1							1			
Upbound	Domestic	4	000764	1650	200.0	35.0	7	11.0	1.5	5.5	208	2007	N	1			1							
Upbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2007	N	4									4	
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2007		3			3							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	3			3							
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2007	N	8			8							
Upbound	Domestic	4	764	2098	200.0	35.0	7	11.0	1.5	5.5	218	2007	N	1			1							
Upbound	Domestic	5	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	6									6	
Upbound	Domestic	4	706	1587	200.0	35.0	9	9.0	1.5	7.5	155	2007	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2007	N	9			9							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2007	N	7			7							
Upbound	Domestic	4	705	1617	200.0	35.0	7	9.0	1.6	5.4	205	2007	N	2			2							
Upbound	Domestic	5	773	1350	195.0	35.0	2	9.0	2.0	0.0	166	2007	N	1									1	
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2007	N	7			7							
Upbound	Domestic	4	206	414	61.5	31.2	9	9.0	2.0	7.0	125	2007		8			8							
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2007		1									1	
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2007		3									3	
Upbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2007	N	1							1			
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2007		2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2007		7			7							
Upbound	Domestic	4	1033	1600	200.0	35.0	8	9.0	1.6	6.4	170	2007		1			1							
Upbound	Domestic	4	700	1506	195.0	35.0	8	9.0	1.6	6.4	180	2007		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2007	N	2			2							
Upbound	Domestic	4	764	1646	200.0	35.0	6	9.0	1.6	4.4	226	2007	N	1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2007	N	1			1							
Upbound	Domestic	4	206	414	61.5	31.2	8	9.0	6.0	2.0	125	2007		1							1			
Upbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2007	N	1							1			
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2007		1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2007		1			1							
Upbound	Domestic	4	206	414	61.6	31.2	8	8.6	2.0	6.0	121	2007		2			2							
Upbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2007	N	6			6							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2007	N	6			6							
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2007	N	1			1							
Upbound	Domestic	4	889	1424	195.1	35.2	9	9.0	1.9	7.1	194	2007	N	1			1							
Upbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2007	N	2			2							
Upbound	Domestic	4	000764	1568	200.0	35.0	7	9.0	1.6	5.4	204	2007	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	7	9.0	2.0	5.0	210	2007		1			1							
Upbound	Domestic	5	825	1608	200.1	35.1	2	9.0	1.7	0.3	183	2007	N	1									1	
Upbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2007	N	3									3	
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2007		1		1								
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2007		24			24							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2007		1			1							
Upbound	Domestic	4	637	1911	195.0	35.0	8	9.0	1.0	7.0	190	2007	N	1			1							
Upbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2007	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2007	N	6							6			
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2007	N	3			3							
Upbound	Domestic	4	950	1681	200.0	35.0	8	9.0	1.3	6.7	194	2007	N	1			1							
Upbound	Domestic	4	206	414	61.5	31.2	8	9.0	1.5	6.5	125	2007		1			1							
Upbound	Domestic	4	471	1510	195.0	35.0	2	9.0	1.6	0.4	119	2007		2							2			
Upbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2007	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2007		7			7							
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2007	N	1			1							
Upbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2007	N	3			3							
Upbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2007	N	2			2							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2007		1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2007	N	6			6							
Upbound	Domestic	4	696	1668	200.0	35.0	8	9.0	1.4	6.6	180	2007	N	1			1							
Upbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2007	N	3			3							
Upbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	2			2							
Upbound	Domestic	5	894	1591	200.0	35.0	8	9.0	1.9	6.1	142	2007	N	1					1					
Upbound	Domestic	4	000764	1652	200.0	35.0	2	9.0	2.0	0.0	215	2007		1							1			
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2007		11			11							
Upbound	Domestic	4	196	412	61.6	31.2	8	9.0	1.6	6.4	125	2007		1			1							
Upbound	Domestic	5	805	1433	195.0	35.0	8	9.0	1.1	6.9	166	2007	N	3					3					
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	21			21							
Upbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2007		2			2							
Upbound	Domestic	4	823	1728	200.0	35.0	8	9.0	1.3	6.7	155	2007	N	1			1							
Upbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2007	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2007	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2007	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2007		2							2			
Upbound	Domestic	3	634	999999	145.0	48.0	8	9.0	8.0	0.0	400	2007	N	1		1								
Upbound	Domestic	5	855	1400	195.0	35.0	2	9.0	2.0	0.0	170	2007	N	1									1	
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2007		10			10							
Upbound	Domestic	4	000745	2151	195.0	35.0	4	10.0	1.6	2.4	170	2007		1			1							
Upbound	Domestic	4	705	1889	200.0	35.0	7	10.0	1.4	5.6	140	2007		1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	7	9.0	1.6	5.4	240	2007		1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	9	9.0	1.4	7.6	148	2007		1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	7	10.0	1.5	5.5	149	2007		1			1							
Upbound	Domestic	4	862	1539	195.0	35.0	9	9.0	1.5	7.5	192	2007	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2007		3			3							
Upbound	Domestic	4	764	1645	200.0	35.0	7	9.0	1.9	5.1	220	2007	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2007	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	7	11.0	4.0	3.0	170	2007	N	1			1							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2007		3		3								
Upbound	Domestic	3	58	85	46.7	28.0	10	9.3	9.3	0.7	260	2007		7		7								
Upbound	Domestic	5	740	1578	200.0	35.0	6	9.0	1.9	4.1	183	2007	N	1					1					
Upbound	Domestic	4	696	1600	200.0	35.0	8	9.0	1.5	6.5	190	2007		1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2007		1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2007		2			2							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2007		3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2007		9			9							
Upbound	Domestic	4	687	1633	195.0	35.0	8	9.0	1.4	6.6	133	2007		1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	7	9.0	1.9	5.1	205	2007	N	2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	6	9.0	1.5	4.5	170	2007		1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	190	2007	N	1			1							
Upbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2007	N	10			10							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2007	N	2			2							
Upbound	Domestic	4	711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2007	N	1			1							
Upbound	Domestic	4	957	1666	200.0	35.0	8	9.0	1.6	6.4	160	2007		1			1							
Upbound	Domestic	5	000891	1591	200.0	35.0	7	9.0	1.9	5.1	142	2007	N	1					1					
Upbound	Domestic	4	600	1674	200.0	35.0	8	9.0	1.3	6.7	208	2007	N	1			1							
Upbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2007		1		1								
Upbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2007		1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2007	N	1			1							
Upbound	Domestic	5	001754	4972	297.5	54.0	9	12.1	1.5	7.5	176	2007		1					1					
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2007	N	10			10							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	180	2007	N	1			1							
Upbound	Domestic	5	773	1300	195.0	35.0	2	8.6	2.0	0.0	166	2007	N	2									2	
Upbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2007	N	2			2							
Upbound	Domestic	4	764	2400	200.0	35.0	9	9.0	1.6	7.4	225	2007	N	1			1							
Upbound	Domestic	4	1072	1667	200.0	35.0	8	9.0	1.5	6.5	183	2007		1			1							
Upbound	Domestic	4	799	1887	200.0	35.0	2	10.0	1.4	0.6	149	2007		1							1			
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2007		2			2							
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2007	N	4			4							
Upbound	Domestic	4	000705	1619	200.0	35.0	7	9.0	1.6	5.4	205	2007	N	2			2							
Upbound	Domestic	4	802	1660	200.0	35.0	8	9.0	2.0	6.0	139	2007		2			2							
Upbound	Domestic	4	795	1625	200.0	35.0	9	9.0	1.5	7.5	147	2007	N	1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2007	N	1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	5	10.0	1.6	3.4	170	2007		1			1							
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2007	N	4			4							
Upbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	206	2007	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	2			2							
Upbound	Domestic	4	705	1643	200.0	35.0	8	9.0	1.6	6.4	160	2007		1			1							
Upbound	Domestic	4	700	1741	195.0	35.0	8	10.0	1.6	6.4	130	2007		1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2007	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2007		1							1			
Upbound	Domestic	3	643	999999	145.0	48.0	8	9.0	8.0	0.0	400	2007	N	4		4								
Upbound	Domestic	3	402	999999	129.5	42.0	8	11.0	8.0	0.0	460	2007	N	3		3								
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2007	N	3			3							
Upbound	Domestic	4	676	1500	195.0	35.0	8	9.0	2.0	6.0	162	2007		9			9							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2007	N	6			6							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	17			17							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2007	N	15			15							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2007	N	1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	7	9.0	1.5	5.5	225	2007	N	1			1							
Upbound	Domestic	4	000745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2007	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2007	N	5			5							
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2007		2			2							
Upbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2007	N	8			8							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2007	N	15			15							
Upbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2007	N	6			6							
Upbound	Domestic	4	695	1532	195.0	35.0	8	9.0	1.5	6.5	145	2007	N	1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2007	N	4			4							
Upbound	Domestic	4	705	1687	200.0	35.0	7	9.0	1.3	5.7	146	2007	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2007	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2007		6			6							
Upbound	Domestic	4	764	2292	200.0	35.0	8	12.0	1.5	6.5	170	2007	N	1			1							
Upbound	Domestic	4	823	2291	200.0	35.0	8	12.0	1.5	6.5	225	2007		1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2007		4			4							
Upbound	Domestic	4	669	1528	195.0	35.0	8	9.0	1.5	6.5	135	2007		1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2007	N	2			2							
Upbound	Domestic	4	705	1501	200.0	35.0	9	12.0	1.5	7.5	186	2007	N	2			2							
Upbound	Domestic	4	546	1665	200.0	35.0	8	9.0	2.0	6.0	190	2007	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2007	N	4			4							
Upbound	Domestic	4	1072	1870	200.0	35.0	9	10.0	1.5	7.5	169	2007	N	1			1							
Upbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2007		1					1					
Upbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2007		1			1							
Upbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2007	N	1									1	
Upbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2007	N	2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	157	2007		1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	7			7							
Upbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2007	N	5			5							
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2007	N	8			8							
Upbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2007	N	2			2							
Upbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2007	N	2			2							
Upbound	Domestic	4	764	1617	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	1			1							
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2007		29		29								
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2007		5		5								
Upbound	Domestic	5	2356	7068	293.0	50.0	2	8.5	2.7	-0.7	320	2007	N	1									1	
Upbound	Domestic	4	1033	1600	200.0	35.0	8	9.0	1.6	6.4	170	2007	N	1			1							
Upbound	Domestic	4	000705	2000	195.0	35.0	9	12.0	1.5	7.5	146	2007		1			1							
Upbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2007		2			2							
Upbound	Domestic	4	676	1500	195.0	35.0	9	9.0	2.0	7.0	162	2007		1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	135	2007		1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2007		1			1							
Upbound	Domestic	4	764	1603	200.0	35.0	8	9.0	1.5	6.5	170	2007		1			1							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2007	N	10					10					
Upbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2007	N	1							1			
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2007	N	5			5							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2007		10			10							
Upbound	Domestic	4	764	1658	200.0	35.0	7	9.0	1.5	5.5	225	2007	N	3			3							
Upbound	Domestic	4	003195	1664	200.0	35.0	9	9.0	1.4	7.6	145	2007	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2007		8		8								
Upbound	Domestic	5	001754	4972	297.5	54.0	2	12.1	1.5	0.5	176	2007		6									6	
Upbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2007	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	10	12.0	1.8	8.2	190	2007		1			1							
Upbound	Domestic	4	966	1670	200.0	35.0	8	9.0	1.5	6.5	160	2007		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	7	9.0	1.6	5.4	225	2007	N	3			3							
Upbound	Domestic	4	000705	1612	200.0	35.0	8	9.0	1.6	6.4	160	2007	N	1			1							
Upbound	Domestic	4	681	1500	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2007		6					6					
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2007		5			5							
Upbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2007	N	1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2007	N	1					1					
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2007	N	15			15							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	4			4							
Upbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2007	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2007	N	1			1							
Upbound	Domestic	4	750	1500	200.0	35.0	8	9.0	1.4	6.6	149	2007	N	1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2007	N	1					1					
Upbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2007		4		4								
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2007		9									9	
Upbound	Domestic	5	001455	3200	295.0	54.0	2	10.0	2.0	0.0	170	2007		3									3	
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2007	N	3				3						
Downbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2007	N	2				2						
Downbound	Domestic	4	1008	1600	200.0	35.0	8	9.0	1.6	6.4	170	2007	N	1				1						
Downbound	Domestic	5	001754	4972	297.5	54.0	8	12.1	1.5	6.5	176	2007		1						1				
Downbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2007		1				1						
Downbound	Domestic	4	676	1534	195.0	35.0	9	9.0	1.6	7.4	160	2007		1				1						
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2007	N	3				3						
Downbound	Domestic	4	1065	1716	200.0	35.0	8	9.0	1.1	6.9	145	2007	N	2				2						
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2007		1				1						
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2007		4								4		
Downbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2007	N	2								2		
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2007	N	3								3		
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	5								5		
Downbound	Domestic	4	745	1458	195.0	35.0	2	9.0	1.9	0.1	205	2007	N	1								1		
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2007		6						6				
Downbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	186	2007	N	1				1						
Downbound	Domestic	5	800	1701	195.0	35.0	9	10.0	2.0	7.0	170	2007	N	0						0				
Downbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2007	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2007		1				1						
Downbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2007		1				1						
Downbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2007	N	5		5								
Downbound	Domestic	4	705	1880	200.0	35.0	2	10.0	1.4	0.6	140	2007		1								1		
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2007	N	2				2						
Downbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2007	N	1				1						
Downbound	Domestic	4	823	2291	200.0	35.0	10	12.0	1.6	8.4	240	2007	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2007	N	8				8						
Downbound	Domestic	5	001771	3694	297.0	54.0	9	9.0	2.0	7.0	185	2007	N	0						0				
Downbound	Domestic	5	773	1428	195.1	35.1	9	8.7	1.7	7.3	170	2007	N	1						1				
Downbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2007		1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	11				11						
Downbound	Domestic	4	000687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2007	N	7								7		
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2007	N	6								6		
Downbound	Domestic	4	909	1442	195.0	35.0	2	9.0	1.9	0.1	203	2007	N	1								1		
Downbound	Domestic	4	1223	1651	200.0	35.0	2	8.9	1.5	0.5	145	2007	N	1								1		
Downbound	Domestic	4	1052	1600	200.0	35.0	9	9.0	1.6	7.4	160	2007	N	1				1						
Downbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2007		1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2007		1				1						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2007		1						1				
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	147	2007		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	9	12.0	1.5	7.5	186	2007	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2007		1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2007		3				3						
Downbound	Domestic	4	823	1627	200.0	35.0	13	11.0	1.8	11.2	230	2007		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2007	N	11								11		
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	2				2						
Downbound	Domestic	4	1081	1676	200.0	35.0	8	9.0	1.3	6.7	146	2007	N	1				1						
Downbound	Domestic	3	108	999999	66.0	24.0	7	10.0	9.5	-2.5	320	2007		1		1								
Downbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2007	N	5								5		
Downbound	Domestic	4	774	1450	195.0	35.0	2	9.0	1.5	0.5	190	2007	N	8								8		
Downbound	Domestic	4	000823	2297	200.0	35.0	9	12.0	1.6	7.4	225	2007		2				2						
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2007	N	1				1						
Downbound	Domestic	4	907	1733	195.0	35.0	9	10.0	1.6	7.4	200	2007	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2007	N	2				2						
Downbound	Domestic	4	823	2469	200.0	35.0	10	14.0	1.6	8.4	250	2007		1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	7	9.0	1.7	5.3	205	2007	N	1				1						
Downbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2007	N	1				1						
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2007		20		20								
Downbound	Domestic	4	745	1504	195.0	35.0	2	9.0	1.6	0.4	166	2007	N	2								2		
Downbound	Domestic	3	533	999999	140.0	42.0	8	8.6	6.6	1.4	430	2007		1		1								
Downbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2007		4		4								
Downbound	Domestic	5	759	1578	200.0	35.0	2	9.0	1.9	0.1	164	2007	N	1										1
Downbound	Domestic	4	685	1550	195.0	35.0	2	9.0	1.5	0.5	190	2007	N	2								2		
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2007	N	1				1						
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2007	N	5				5						
Downbound	Domestic	5	1455	3200	290.0	54.0	9	10.0	2.0	7.0	170	2007		1						1				
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2007	N	6				6						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2007	N	1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2007		20								20		
Downbound	Domestic	4	711	1520	195.0	35.0	2	9.0	1.6	0.4	160	2007		1								1		
Downbound	Domestic	4	000745	1502	195.0	35.0	2	9.0	1.6	0.4	155	2007	N	1								1		
Downbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2007	N	3								3		
Downbound	Domestic	4	888	1500	195.0	35.0	2	9.0	1.6	0.4	149	2007	N	1								1		
Downbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2007	N	4								4		
Downbound	Domestic	4	745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2007	N	3								3		
Downbound	Domestic	4	000705	1612	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	1								1		
Downbound	Domestic	5	1876	3400	297.5	54.0	9	10.0	2.0	7.0	170	2007		4						4				
Downbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2007	N	1				1						
Downbound	Domestic	5	001754	4329	297.5	54.0	8	13.0	2.0	6.0	176	2007		1						1				
Downbound	Domestic	4	685	1550	195.0	35.0	8	9.0	1.5	6.5	190	2007	N	1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2007	N	1				1						
Downbound	Domestic	5	2223	3400	297.5	54.0	2	10.0	2.0	0.0	180	2007		1										1
Downbound	Domestic	5	740	1578	200.0	35.0	2	9.0	1.9	0.1	183	2007	N	3										3
Downbound	Domestic	4	001102	1659	200.0	35.0	2	9.0	1.4	0.6	146	2007	N	1								1		
Downbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2007	N	1				1						
Downbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2007	N	6										6
Downbound	Domestic	4	687	1501	195.0	35.0	8	12.0	1.5	6.5	186	2007	N	2				2						
Downbound	Domestic	4	687	1722	195.0	35.0	1	10.0	1.6	-0.6	205	2007	N	1								1		
Downbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.9	7.1	220	2007	N	2				2						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2007		24		24								
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2007		6		6								
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2007	N	2								2		
Downbound	Domestic	4	764	2187	200.0	35.0	2	12.0	1.7	0.3	240	2007		1								1		
Downbound	Domestic	4	795	1625	200.0	35.0	2	9.0	1.5	0.5	147	2007	N	1								1		
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	7								7		
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	160	2007	N	1								1		
Downbound	Domestic	4	697	1729	195.0	35.0	2	10.0	1.5	0.5	176	2007	N	1								1		
Downbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2007	N	2				2						
Downbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2007	N	6				6						
Downbound	Domestic	5	002424	2213	295.0	50.0	2	9.0	2.5	-0.5	280	2007	N	4										4
Downbound	Domestic	4	698	1536	195.0	35.0	8	9.0	1.5	6.5	196	2007	N	1				1						
Downbound	Domestic	4	311	1498	195.0	35.0	2	9.0	1.6	0.4	155	2007	N	1								1		
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2007		2								2		
Downbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.5	0.5	225	2007	N	1								1		
Downbound	Domestic	4	856	1856	200.0	35.1	2	10.0	1.6	0.4	210	2007	N	1								1		
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2007	N	1								1		
Downbound	Domestic	4	823	1640	200.0	35.0	5	9.0	1.5	3.5	220	2007	N	0				0						
Downbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2007	N	1				1						
Downbound	Domestic	5	001754	4972	297.5	54.0	7	12.1	1.5	5.5	176	2007		1						1				
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.6	7.4	160	2007		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2007	N	2				2						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2007	N	2				2						
Downbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2007	N	8								8		
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2007	N	1				1						
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2007		15		15								
Downbound	Domestic	3	93	999999	85.5	27.4	7	8.3	7.0	0.0	166	2007		1		1								
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2007	N	10								10		
Downbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2007	N	2								2		
Downbound	Domestic	4	823	2319	200.0	35.0	9	12.0	1.3	7.7	227	2007		2				2						
Downbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2007		1										1
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2007		3						3				
Downbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	240	2007		1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2007	N	2				2						
Downbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2007	N	13								13		
Downbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2007		1				1						
Downbound	Domestic	4	1072	1870	200.0	35.0	1	10.0	1.5	-0.5	169	2007	N	1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	186	2007	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	2	11.0	1.8	0.2	170	2007		1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.6	0.4	165	2007		2								2		
Downbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2007		1		1								
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2007	N	1								1		
Downbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2007	N	8										8
Downbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2007	N	1								1		
Downbound	Domestic	4	1020	1500	200.0	35.0	2	12.0	1.6	0.4	149	2007	N	1								1		
Downbound	Domestic	4	783	1450	195.0	35.0	2	9.0	2.0	0.0	190	2007	N	2								2		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	190	2007	N	4								4		
Downbound	Domestic	4	764	1527	200.0	35.0	2	9.0	1.8	0.2	205	2007	N	1								1		
Downbound	Domestic	4	637	1911	195.0	35.0	2	9.0	1.0	1.0	190	2007	N	2								2		
Downbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2007		8						8				
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2007		1				1						
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2007		4						4				
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2007	N	8				8						
Downbound	Domestic	4	783	1937	195.0	35.0	10	11.0	1.8	8.2	210	2007	N	1				1						
Downbound	Domestic	4	676	1500	195.0	35.0	2	9.0	2.0	0.0	162	2007		8								8		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2007		3								3		
Downbound	Domestic	4	729	1883	200.0	35.0	2	10.0	1.5	0.5	176	2007	N	5								5		
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2007	N	8								8		
Downbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2007		1				1						
Downbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2007	N	4				4						
Downbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2007	N	2				2						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2007		1				1						
Downbound	Domestic	4	705	1648	200.0	35.0	8	12.0	1.5	6.5	186	2007	N	2				2						
Downbound	Domestic	4	206	414	61.5	31.2	8	9.0	2.0	6.0	125	2007		1				1						
Downbound	Domestic	3	62	999999	85.6	27.4	7	8.0	6.5	0.5	149	2007		3		3								
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	214	2007		1								1		
Downbound	Domestic	4	688	1680	200.0	35.0	2	9.0	1.5	0.5	210	2007		1								1		
Downbound	Domestic	5	000795	1478	195.0	35.0	2	9.0	1.8	0.2	178	2007	N	3										3
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2007	N	11								11		
Downbound	Domestic	4	783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2007	N	3								3		
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2007	N	12								12		
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2007	N	7								7		
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2007		2				2						
Downbound	Domestic	4	687	2061	195.0	35.0	7	9.0	1.5	5.5	160	2007	N	1				1						
Downbound	Domestic	5	1754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2007		5						5				
Downbound	Domestic	4	823	2289	200.0	35.0	10	12.0	1.6	8.4	240	2007	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2007	N	2				2						
Downbound	Domestic	4	687	1514	195.0	35.0	1	9.0	1.5	-0.5	206	2007	N	1								1		
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	2				2						
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2007		1				1						
Downbound	Domestic	4	471	1510	195.0	35.0	9	9.0	1.6	7.4	119	2007		2				2						
Downbound	Domestic	4	705	1687	200.0	35.0	8	9.0	1.3	6.7	146	2007	N	1				1						
Downbound	Domestic	4	601	1626	195.0	35.0	2	9.0	1.4	0.6	146	2007		1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2007	N	1								1		
Downbound	Domestic	4	1033	1600	200.0	35.0	2	9.0	1.6	0.4	170	2007	N	1								1		
Downbound	Domestic	4	000705	1616	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	1								1		
Downbound	Domestic	4	705	2000	195.0	35.0	9	12.0	1.5	7.5	146	2007		1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2007		2				2						
Downbound	Domestic	4	960	1672	200.0	35.0	8	9.0	1.5	6.5	209	2007		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2007	N	3				3						
Downbound	Domestic	4	000764	2528	200.0	35.0	9	13.0	1.5	7.5	155	2007	N	1				1						
Downbound	Domestic	4	706	1627	200.0	35.0	9	9.0	1.3	7.7	155	2007	N	1				1						
Downbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2007		1				1						
Downbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2007	N	4										4
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2007	N	9				9						
Downbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2007	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2007		2				2						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2007	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2007	N	2				2						
Downbound	Domestic	4	823	1728	200.0	35.0	9	9.0	1.3	7.7	155	2007	N	1				1						
Downbound	Domestic	4	888	1529	195.0	35.0	2	9.0	1.5	0.5	160	2007		8								8		
Downbound	Domestic	4	705	1633	200.0	35.0	2	9.0	1.6	0.4	160	2007	N	1								1		
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	190	2007	N	1								1		
Downbound	Domestic	4	823	2291	200.0	35.0	9	12.0	1.5	7.5	225	2007		3				3						
Downbound	Domestic	4	730	1664	200.0	35.0	9	9.0	1.6	7.4	160	2007		2				2						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2007	N	10				10						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2007	N	6				6						
Downbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2007		1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2007	N	2				2						
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2007	N	6				6						
Downbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2007		1								1		
Downbound	Domestic	4	730	1664	200.0	35.0	2	9.0	1.6	0.4	160	2007		1								1		
Downbound	Domestic	4	763	2290	200.0	35.0	2	12.0	1.6	0.4	236	2007	N	1								1		
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2007	N	2								2		
Downbound	Domestic	4	206	414	61.5	31.2	2	9.0	1.5	0.5	125	2007		1								1		
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2007		1				1						
Downbound	Domestic	4	950	1677	200.0	35.0	8	9.0	1.4	6.6	150	2007		1				1						
Downbound	Domestic	4	706	1614	200.0	35.0	8	9.0	1.2	6.8	145	2007	N	1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2007	N	2				2						
Downbound	Domestic	4	888	1520	195.0	35.0	9	9.0	1.6	7.4	180	2007	N	2				2						
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2007	N	2				2						
Downbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	11								11		
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2007	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2007	N	3				3						
Downbound	Domestic	4	000745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2007	N	1								1		
Downbound	Domestic	4	717	1662	200.0	35.0	2	9.0	1.4	0.6	191	2007	N	2								2		
Downbound	Domestic	4	701	1508	195.0	35.0	2	9.0	1.6	0.4	196	2007	N	1								1		
Downbound	Domestic	4	687	1534	195.0	35.0	2	9.0	1.5	0.5	145	2007	N	1								1		
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2007		1								1		
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2007		7						7				
Downbound	Domestic	4	196	375	61.6	31.2	9	9.0	1.8	7.2	125	2007		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2007	N	1				1						
Downbound	Domestic	5	1876	3400	297.5	54.0	10	10.0	2.0	8.0	170	2007		2						2				
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2007	N	1				1						
Downbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	165	2007	N	2										2
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2007		3								3		
Downbound	Domestic	4	000705	1617	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

Total Trips = 84400

														OK	0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	891	1580	200.0	35.0	6	9.0	1.9	4.1	142	2007	N	1						1				
Downbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2007		1				1						
Downbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2007	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2007		1				1						
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2007	N	1				1						
Downbound	Domestic	4	952	1670	200.0	35.0	8	9.0	1.4	6.6	208	2007		1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	4				4						
Downbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	5				5						
Downbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	13								13		
Downbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2007		2				2						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2007		1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2007	N	7				7						
Downbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2007		3		3								
Downbound	Domestic	4	700	1741	195.0	35.0	2	10.0	1.6	0.4	130	2007		2								2		
Downbound	Domestic	4	000687	1476	195.0	35.0	2	9.0	1.7	0.3	205	2007	N	1								1		
Downbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2007		1		1								
Downbound	Domestic	5	1754	3390	297.5	54.0	9	12.0	2.0	7.0	180	2007		4						4				
Downbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2007		2				2						
Downbound	Domestic	5	001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2007		1						1				
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2007		2				2						
Downbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2007	N	3				3						
Downbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2007	N	1				1						
Downbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2007	N	3										3
Downbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2007	N	6										6
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	234	2007	N	1				1						
Downbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2007	N	1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2007		14		14								
Downbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2007		3		3								
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2007	N	4				4						
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.6	6.4	155	2007		1				1						
Downbound	Domestic	4	848	1536	195.0	35.0	8	9.0	1.6	6.4	160	2007		1				1						
Downbound	Domestic	4	913	1550	200.1	35.1	9	9.0	1.6	7.4	136	2007		1				1						
Downbound	Domestic	4	687	1510	195.0	35.0	9	9.0	1.6	7.4	119	2007		1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2007		1				1						
Downbound	Domestic	4	823	1627	200.0	35.0	14	12.0	1.8	12.2	230	2007		1				1						
Downbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2007	N	1				1						
Downbound	Domestic	4	735	1500	200.1	35.0	8	9.0	1.6	6.4	149	2007	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	7	12.0	1.5	5.5	208	2007	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2007	N	5								5		
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2007	N	1				1						
Downbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2007		1								1		
Downbound	Domestic	4	694	1728	195.0	35.0	2	10.0	1.6	0.4	176	2007	N	2								2		
Downbound	Domestic	4	735	1885	200.0	35.0	2	10.0	1.4	0.6	176	2007	N	3								3		
Downbound	Domestic	4	000745	2005	195.0	35.0	2	11.5	1.5	0.5	130	2007		2								2		
Downbound	Domestic	4	000705	1612	200.0	35.0	2	9.0	1.6	0.4	160	2007	N	1								1		
Downbound	Domestic	4	862	1539	195.0	35.0	2	9.0	1.5	0.5	192	2007	N	1								1		
Downbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2007	N	2				2						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2007	N	3				3						
Downbound	Domestic	4	000764	2202	200.0	35.0	9	13.0	2.0	7.0	208	2007		1				1						
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2007	N	2				2						
Downbound	Domestic	4	687	1571	195.0	35.0	9	9.0	1.3	7.7	145	2007	N	1				1						
Downbound	Domestic	5	001455	3200	295.0	54.0	9	10.0	2.0	7.0	170	2007		3						3				
Downbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2007	N	1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2007	N	2				2						
Downbound	Domestic	4	000687	1476	195.0	35.0	9	9.0	1.7	7.3	205	2007	N	1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2007	N	2				2						
Downbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.5	7.5	180	2007	N	1				1						
Downbound	Domestic	5	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2007	N	1										1
Downbound	Domestic	4	960	1672	200.0	35.0	2	9.0	1.3	0.7	208	2007		1								1		
Downbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.1	0.9	194	2007	N	1								1		
Downbound	Domestic	4	823	1624	200.0	35.0	2	9.0	1.6	0.4	200	2007		2								2		
Downbound	Domestic	5	1961	3500	297.5	54.0	8	8.5	2.0	6.0	100	2007		4						4				
Downbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2007	N	1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2007	N	3				3						
Downbound	Domestic	4	687	1508	195.0	35.0	8	9.0	1.5	6.5	223	2007		1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2007	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2007		4								4		
Downbound	Domestic	4	688	1542	200.0	35.0	2	9.0	1.5	0.5	210	2007	N	1								1		
Downbound	Domestic	4	764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2007	N	2								2		
Downbound	Domestic	4	986	1477	195.0	35.0	9	9.0	1.8	7.2	205	2007	N	1				1						
Downbound	Domestic	4	985	1520	195.0	35.0	2	9.0	1.6	0.4	160	2007		1								1		
Downbound	Domestic	4	888	1479	195.0	35.0	2	9.0	1.8	0.2	180	2007		1								1		
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	3								3		
Downbound	Domestic	4	994	1475	195.0	35.0	2	9.0	1.6	0.4	189	2007	N	3								3		
Downbound	Domestic	4	735	1500	200.0	35.0	2	9.0	1.6	0.4	149	2007	N	1								1		
Downbound	Domestic	4	000706	1534	200.0	35.0	2	9.0	1.8	0.2	205	2007	N	2								2		
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2007	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2007		1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2007		1				1						
Downbound	Domestic	5	001754	4972	297.5	54.0	10	12.1	1.5	8.5	176	2007		1						1				
Downbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2007	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	214	2007		1								1		
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2007	N	13								13		
Downbound	Domestic	4	705	1617	200.0	35.0	2	9.0	1.6	0.4	160	2007	N	2								2		
Downbound	Domestic	4	695	1532	195.0	35.0	2	9.0	1.5	0.5	145	2007	N	1								1		
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.6	0.4	180	2007	N	1								1		
Downbound	Domestic	4	823	2280	200.0	35.0	9	12.0	1.4	7.6	223	2007		1				1						
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2007	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2007	N	3				3						
Downbound	Domestic	4	823	1640	200.0	35.0	7	9.0	1.5	5.5	220	2007	N	1				1						
Downbound	Domestic	4	687	1633	195.0	35.0	9	9.0	1.4	7.6	133	2007		1				1						
Downbound	Domestic	4	960	1672	200.0	35.0	8	9.0	1.3	6.7	208	2007		1				1						
Downbound	Domestic	4	687	1436	195.0	35.0	8	9.0	1.9	6.1	160	2007	N	1				1						
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2007	N	2				2						
Downbound	Domestic	3	204	999999	91.5	32.0	7	7.6	6.0	1.0	436	2007		2		2								
Downbound	Domestic	4	950	1650	200.0	35.0	2	9.0	1.5	0.5	190	2007		1								1		
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2007	N	11								11		
Downbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2007	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.7	6.3	240	2007		1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2007		1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2007	N	1				1						
Downbound	Domestic	4	730	1664	200.0	35.0	9	9.0	1.4	7.6	148	2007	N	1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2007	N	10				10						
Downbound	Domestic	4	687	1534	195.0	35.0	7	9.0	1.5	5.5	145	2007	N	1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2007	N	2				2						
Downbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2007		1				1						
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2007		6		6								
Downbound	Domestic	4	687	1633	195.0	35.0	2	9.0	1.4	0.6	133	2007		1								1		
Downbound	Domestic	4	1056	1659	200.0	35.0	2	9.0	1.5	0.5	185	2007	N	1								1		
Downbound	Domestic	4	546	1665	200.0	35.0	2	9.0	2.0	0.0	190	2007	N	1								1		
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2007		2				2						
Downbound	Domestic	4	996	1659	200.0	35.0	9	9.0	1.5	7.5	160	2007		1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2007	N	1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2007	N	3				3						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2007	N	7				7						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

																0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																		Loaded				Unloaded			
																		Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	4				4						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2007	N	5				5						
Downbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2007	N	2				2						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2007	N	1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	9	10.0	1.6	7.4	192	2007	N	1				1						
Downbound	Domestic	4	764	1610	200.0	35.0	2	9.0	1.6	0.4	165	2007	N	1									1	
Downbound	Domestic	4	713	1550	200.0	35.0	2	9.0	1.2	0.8	190	2007	N	3									3	
Downbound	Domestic	4	000764	1650	200.0	35.0	3	12.0	1.5	1.5	208	2007	N	1									1	
Downbound	Domestic	4	736	1884	200.0	35.0	2	10.0	1.5	0.5	176	2007	N	1									1	
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.4	0.6	225	2007	N	1									1	
Downbound	Domestic	4	764	1695	200.0	35.0	2	9.0	1.2	0.8	155	2007	N	1									1	
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2007	N	1									1	
Downbound	Domestic	4	1009	1441	195.1	35.1	2	8.7	1.7	0.3	170	2007	N	1									1	
Downbound	Domestic	4	823	2289	200.0	35.0	9	12.0	1.6	7.4	240	2007		1				1						
Downbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2007		2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	8	9.0	1.5	6.5	199	2007	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2007	N	2				2						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2007	N	1				1						
Downbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2007	N	2				2						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2007	N	2				2						
Downbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2007	N	1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	132	2007		5									5	
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	154	2007	N	1									1	
Downbound	Domestic	4	823	2743	200.0	35.0	2	14.0	1.5	0.5	241	2007	N	1									1	
Downbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2007	N	11									11	
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2007	N	1				1						
Downbound	Domestic	5	001754	4972	297.5	54.0	5	12.1	1.5	3.5	176	2007		1							1			
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2007		2				2						
Downbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	210	2007	N	1				1						
Downbound	Domestic	4	799	1887	200.0	35.0	8	10.0	1.4	6.6	149	2007		2				2						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2007	N	8				8						
Downbound	Domestic	4	705	1667	200.0	35.0	8	9.0	1.7	6.3	168	2007		1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2007	N	7				7						
Downbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	180	2007	N	1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	7	10.0	1.6	5.4	204	2007	N	1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2007	N	1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2007	N	1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2007		11									11	
Downbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2007	N	1									1	
Downbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.6	0.4	211	2007	N	1									1	
Downbound	Domestic	4	1065	1659	200.0	35.0	2	9.0	1.5	0.5	185	2007	N	3									3	
Downbound	Domestic	4	1056	2000	200.0	35.0	2	9.0	1.3	0.7	160	2007	N	1									1	
Downbound	Domestic	5	001754	4329	297.5	54.0	9	13.0	2.0	7.0	176	2007		1							1			
Downbound	Domestic	5	001754	4329	297.5	54.0	6	13.0	2.0	4.0	176	2007		1							1			
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2007		7				7						
Downbound	Domestic	5	001754	4329	297.5	54.0	10	13.0	2.0	8.0	176	2007		4							4			
Downbound	Domestic	5	2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2007	N	1										1
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2007		1				1						
Downbound	Domestic	4	000764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2007	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2007		2				2						
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2007		17		17								
Downbound	Domestic	4	823	2291	200.0	35.0	2	12.0	1.5	0.5	225	2007		1									1	
Downbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2007	N	3									3	
Downbound	Domestic	4	705	1552	200.0	35.0	2	9.0	1.5	0.5	223	2007		2									2	
Downbound	Domestic	4	1009	1683	200.0	35.0	2	9.0	1.2	0.8	193	2007	N	2									2	
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2007	N	5				5						
Downbound	Domestic	5	798	1600	195.0	35.0	9	10.0	1.5	7.5	165	2007		4							4			
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2007		1				1						
Downbound	Domestic	4	705	1570	200.0	35.0	8	9.0	1.5	6.5	150	2007		1				1						
Downbound	Domestic	4	001102	1664	200.0	35.0	8	9.0	1.5	6.5	146	2007	N	1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	4				4						
Downbound	Domestic	4	206	414	61.6	31.2	2	8.6	2.0	0.0	125	2007		15									15	
Downbound	Domestic	4	908	1654	200.0	35.0	2	9.0	1.4	0.6	204	2007	N	2									2	
Downbound	Domestic	4	687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	2									2	
Downbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2007		1									1	
Downbound	Domestic	4	764	1517	200.0	35.0	2	9.0	1.9	0.1	225	2007	N	1									1	
Downbound	Domestic	4	901	1450	195.0	35.0	2	9.0	1.5	0.5	190	2007	N	2									2	
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2007	N	6									6	
Downbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2007	N	1									1	
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	155	2007		1				1						
Downbound	Domestic	5	1961	3500	297.5	54.0	10	8.5	2.0	8.0	100	2007		5							5			
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.6	6.4	155	2007	N	1				1						
Downbound	Domestic	5	001771	3694	297.0	54.0	8	9.0	2.0	6.0	185	2007	N	0							0			
Downbound	Domestic	4	764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2007	N	1				1						
Downbound	Domestic	4	856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2007	N	1									1	
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2007	N	2										2
Downbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2007	N	1									1	
Downbound	Domestic	4	764	2000	200.0	35.0	2	12.0	1.5	0.5	9999	2007		1									1	
Downbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2007	N	3									3	
Downbound	Domestic	4	745	1485	195.0	35.0	2	9.0	1.8	0.2	225	2007	N	1									1	
Downbound	Domestic	4	823	2295	200.0	35.0	8	12.0	1.4	6.6	227	2007		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2007	N	3				3						
Downbound	Domestic	5	001754	3694	298.0	54.0	9	10.0	2.0	7.0	185	2007	N	0							0			
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2007		23		23								
Downbound	Domestic	4	823	2279	200.0	35.0	2	7.6	1.6	0.4	160	2007		1									1	
Downbound	Domestic	4	000764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2007	N	1									1	
Downbound	Domestic	4	000764	1534	200.0	35.0	3	9.0	1.7	1.3	199	2007	N	1									1	
Downbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	130	2007	N	1									1	
Downbound	Domestic	4	745	2345	195.0	35.0	2	9.0	1.6	0.4	209	2007	N	1									1	
Downbound	Domestic	4	700	1504	195.0	35.0	2	9.0	1.6	0.4	206	2007	N	4									4	
Downbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2007	N	2										2
Downbound	Domestic	4	764	1535	200.0	35.0	2	9.0	1.8	0.2	225	2007	N	1									1	
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2007	N	3				3						
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2007		1				1						
Downbound	Domestic	4	705	1554	200.0	35.0	6	9.0	1.5	4.5	150	2007		4				4						
Downbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2007		3				3						
Downbound	Domestic	5	001754	3694	298.0	54.0	8	10.0	2.0	6.0	185	2007	N	0							0			
Downbound	Domestic	4	695	1532	195.0	35.0	8	9.0	1.5	6.5	146	2007	N	1				1						
Downbound	Domestic	4	764	1558	200.0	35.0	6	9.0	1.5	4.5	160	2007		1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2007	N	3				3						
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2007	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2007		2									2	
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2007	N	10										10
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2007	N	2									2	
Downbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2007		1									1	
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2007	N	2				2						
Downbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2007		2				2						
Downbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	170	2007	N	1				1						
Downbound	Domestic	4	823	2289	200.0	35.0	8	12.0	1.6	6.4	240	2007		1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2007	N	1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2007		1				1						
Downbound	Domestic	4	950	1666	200.0	35.0	8	9.0	1.4	6.6	180	2007	N	2				2						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2007	N	3				3						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	5				5						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2007		2				2						
Downbound	Domestic	4	888	1475	195.0	35.0	2	9.0	1.6	0.4	206	2007		17									17	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2007		14		14								
Downbound	Domestic	4	696	1600	200.0	35.0	2	9.0	1.5	0.5	190	2007		1								1		
Downbound	Domestic	4	867	1503	195.1	35.0	2	9.0	1.9	0.1	129	2007		1								1		
Downbound	Domestic	4	727	1772	200.0	35.0	2	10.0	1.5	0.5	148	2007		2								2		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2007	N	7								7		
Downbound	Domestic	4	687	2000	195.0	35.0	2	9.0	1.7	0.3	160	2007	N	1								1		
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2007		1				1						
Downbound	Domestic	4	743	1651	200.0	35.0	8	9.0	1.0	7.0	180	2007		2				2						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2007		1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2007		3				3						
Downbound	Domestic	5	001619	3500	297.6	54.0	10	9.0	1.0	9.0	220	2007		2						2				
Downbound	Domestic	4	000745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2007	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	2	10.0	1.4	0.6	210	2007	N	1								1		
Downbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2007	N	1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2007	N	7								7		
Downbound	Domestic	4	764	1521	200.0	35.0	2	9.0	1.9	0.1	225	2007	N	4								4		
Downbound	Domestic	4	994	2000	195.0	35.0	2	9.0	1.3	0.7	189	2007	N	1								1		
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2007		1				1						
Downbound	Domestic	5	1943	3500	295.0	54.0	9	10.0	2.0	7.0	220	2007		1						1				
Downbound	Domestic	5	1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2007		2						2				
Downbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2007		15						15				
Downbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2007	N	1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2007	N	3				3						
Downbound	Domestic	4	950	1681	200.0	35.0	9	9.0	1.3	7.7	194	2007	N	1				1						
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2007		1		1								
Downbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	146	2007		1								1		
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	165	2007	N	2								2		
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2007	N	12								12		
Downbound	Domestic	4	705	1617	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	148	2007	N	1								1		
Downbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2007		1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2007		1				1						
Downbound	Domestic	5	1754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2007		1						1				
Downbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2007	N	2				2						
Downbound	Domestic	4	823	2077	200.0	35.0	11	12.0	1.5	9.5	215	2007		1				1						
Downbound	Domestic	4	687	1574	195.0	35.0	9	9.0	1.3	7.7	145	2007	N	2				2						
Downbound	Domestic	5	001754	4329	297.5	54.0	11	13.0	2.0	9.0	176	2007		1						1				
Downbound	Domestic	4	933	1527	195.0	35.0	12	10.0	1.5	10.5	199	2007	N	1				1						
Downbound	Domestic	4	823	2279	200.0	35.0	2	12.0	1.7	0.3	223	2007		1								1		
Downbound	Domestic	4	745	1524	195.0	35.0	2	9.0	1.5	0.5	157	2007	N	1								1		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2007		5								5		
Downbound	Domestic	3	201	999999	94.1	30.0	8	7.0	7.0	1.0	390	2007		1		1								
Downbound	Domestic	4	687	1494	195.0	35.0	2	9.0	1.7	0.3	165	2007	N	4								4		
Downbound	Domestic	4	687	1586	195.0	35.0	2	9.0	1.4	0.6	148	2007		1								1		
Downbound	Domestic	4	000745	1510	195.0	35.0	2	9.0	1.6	0.4	155	2007	N	1								1		
Downbound	Domestic	4	696	1668	200.0	35.0	2	9.0	1.4	0.6	180	2007	N	1								1		
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2007		5				5						
Downbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2007	N	1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2007	N	3				3						
Downbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2007	N	1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2007	N	3				3						
Downbound	Domestic	4	000764	2468	200.0	35.0	7	12.0	1.5	5.5	208	2007	N	1				1						
Downbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2007	N	1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	204	2007	N	1								1		
Downbound	Domestic	4	206	414	61.5	31.2	2	9.0	2.0	0.0	125	2007		67								67		
Downbound	Domestic	4	700	1532	195.0	35.0	2	9.0	1.5	0.5	190	2007	N	1								1		
Downbound	Domestic	4	685	1500	195.0	35.0	2	9.0	1.6	0.4	190	2007	N	14								14		
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2007	N	2								2		
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2007	N	13								13		
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2007		1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2007		1				1						
Downbound	Domestic	5	741	1481	195.0	35.0	9	10.0	2.0	7.0	170	2007		2						2				
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2007		1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2007		1				1						
Downbound	Domestic	4	688	1540	200.0	35.0	9	9.0	1.5	7.5	210	2007		2				2						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	180	2007	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2007		1				1						
Downbound	Domestic	5	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	3										3
Downbound	Domestic	4	206	414	61.6	31.2	2	8.6	2.0	0.0	121	2007		2								2		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2007	N	1								1		
Downbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2007	N	4								4		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	2.0	0.0	190	2007	N	1								1		
Downbound	Domestic	5	1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2007		13						13				
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2007	N	3				3						
Downbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2007	N	1				1						
Downbound	Domestic	4	000705	1617	200.0	35.0	9	9.0	1.6	7.4	205	2007	N	1				1						
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	140	2007		1								1		
Downbound	Domestic	4	770	1889	200.0	35.0	2	10.0	1.5	0.5	149	2007		2								2		
Downbound	Domestic	3	64	64	64.0	26.0	7	7.5	6.0	1.0	496	2007		1		1								
Downbound	Domestic	4	888	1500	195.0	35.0	2	9.0	1.7	0.3	149	2007	N	4								4		
Downbound	Domestic	4	681	1450	195.0	35.0	2	9.0	2.0	0.0	190	2007	N	2								2		
Downbound	Domestic	4	957	1665	200.0	35.0	2	9.0	1.4	0.6	186	2007	N	2								2		
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	180	2007	N	2								2		
Downbound	Domestic	4	764	1645	200.0	35.0	2	9.0	1.9	0.1	220	2007	N	1								1		
Downbound	Domestic	4	546	1450	200.0	35.0	2	9.0	2.0	0.0	190	2007	N	2								2		
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2007		1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2007		7				7						
Downbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2007	N	5										5
Downbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2007	N	3										3
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2007	N	4				4						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2007	N	1				1						
Downbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2007	N	2				2						
Downbound	Domestic	5	766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2007	N	2										2
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2007		22		22								
Downbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2007	N	6								6		
Downbound	Domestic	4	1065	1716	200.0	35.0	2	9.0	1.1	0.9	145	2007	N	3								3		
Downbound	Domestic	4	618	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2007	N	1								1		
Downbound	Domestic	4	823	1627	200.0	35.0	2	11.0	1.8	0.2	230	2007		1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2007		5				5						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2007	N	3				3						
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2007		3						3				
Downbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2007		1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2007		1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	12.0	1.5	6.5	195	2007	N	3				3						
Downbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2007		1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2007		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2007	N	4				4						
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2007	N	1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	165	2007	N	1				1						
Downbound	Domestic	3	114	999999	90.0	28.0	7	8.0	7.0	0.0	280	2007		2		2								
Downbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2007	N	3								3		
Downbound	Domestic	4	701	1519	195.0	35.0	2	9.0	1.5	0.5	192	2007	N	1								1		
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	225	2007	N	3										3
Downbound	Domestic	5	805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2007	N	3										3
Downbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2007		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	001754	4329	297.5	54.0	7	13.0	2.0	5.0	176	2007		0						0				
Downbound	Domestic	4	985	1520	195.0	35.0	9	9.0	1.6	7.4	160	2007		4				4						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2007		6				6						
Downbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2007	N	4										4
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2007	N	3				3						
Downbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2007	N	3				3						
Downbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2007	N	6							6			
Downbound	Domestic	4	000764	1650	200.0	35.0	7	11.0	1.5	5.5	208	2007	N	1				1						
Downbound	Domestic	4	206	414	61.6	31.2	8	8.6	2.0	6.0	125	2007		1				1						
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2007	N	7							7			
Downbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.6	0.4	225	2007	N	4							4			
Downbound	Domestic	4	764	1617	200.0	35.0	2	9.0	1.6	0.4	225	2007	N	1							1			
Downbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	2				2						
Downbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2007	N	1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	9	9.0	1.4	7.6	208	2007	N	1				1						
Downbound	Domestic	5	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2007	N	5										5
Downbound	Domestic	4	888	1500	195.0	35.0	2	12.0	2.0	0.0	149	2007	N	3							3			
Downbound	Domestic	4	000764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2007	N	1							1			
Downbound	Domestic	4	764	1607	200.0	35.0	2	9.0	1.4	0.6	165	2007	N	2							2			
Downbound	Domestic	4	706	1563	200.0	35.0	2	9.0	1.7	0.3	205	2007	N	1							1			
Downbound	Domestic	4	206	414	61.5	31.2	9	9.0	2.0	7.0	125	2007		7				7						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2007	N	6				6						
Downbound	Domestic	5	773	1470	195.0	35.0	8	9.0	1.8	6.2	186	2007	N	1						1				
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2007	N	5				5						
Downbound	Domestic	4	764	1648	200.0	35.0	9	12.0	1.5	7.5	208	2007	N	1				1						
Downbound	Domestic	4	902	1643	200.0	35.0	9	9.6	1.5	7.5	194	2007	N	1				1						
Downbound	Domestic	4	966	1658	200.0	35.0	9	9.0	1.5	7.5	200	2007		2				2						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2007		1				1						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2007	N	1				1						
Downbound	Domestic	5	773	1350	195.0	35.0	2	9.0	2.0	0.0	166	2007	N	1										1
Downbound	Domestic	4	931	1655	200.0	35.0	2	9.0	1.5	0.5	190	2007	N	4							4			
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2007	N	5							5			
Downbound	Domestic	4	802	2107	195.0	35.0	8	12.0	1.6	6.4	214	2007		2				2						
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2007		3				3						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2007		7				7						
Downbound	Domestic	4	700	1506	195.0	35.0	8	9.0	1.6	6.4	180	2007		1				1						
Downbound	Domestic	5	773	1475	195.1	35.1	8	9.0	1.8	6.2	169	2007	N	1						1				
Downbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2007	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	2	12.0	1.5	0.5	225	2007		1							1			
Downbound	Domestic	4	764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2007		1							1			
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2007	N	5							5			
Downbound	Domestic	4	000764	1653	200.0	35.0	3	10.0	3.0	0.0	217	2007	N	1							1			
Downbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2007	N	4							4			
Downbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.7	0.3	250	2007		1							1			
Downbound	Domestic	4	764	1647	200.0	35.0	2	9.0	1.2	0.8	165	2007	N	1							1			
Downbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2007		1				1						
Downbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2007	N	4										4
Downbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2007	N	1				1						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2007	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	7	9.0	2.0	5.0	210	2007		1				1						
Downbound	Domestic	4	205	414	61.5	31.2	2	9.0	1.5	0.5	125	2007		2							2			
Downbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2007		1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2007		1				1						
Downbound	Domestic	5	2482	2500	293.0	50.0	10	9.0	2.0	8.0	220	2007		1						1				
Downbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2007	N	1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2007	N	7							7			
Downbound	Domestic	4	856	2312	200.0	35.0	2	12.0	1.5	0.5	217	2007		1							1			
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	155	2007	N	1							1			
Downbound	Domestic	4	932	1672	200.0	35.0	2	9.0	1.3	0.7	208	2007		1							1			
Downbound	Domestic	4	471	1510	195.0	35.0	2	9.0	1.6	0.4	119	2007		2							2			
Downbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	160	2007	N	1							1			
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2007		1							1			
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2007	N	4							4			
Downbound	Domestic	4	687	1574	195.0	35.0	2	9.0	1.3	0.7	145	2007	N	1							1			
Downbound	Domestic	4	000764	1862	200.0	35.0	10	10.0	1.5	8.5	191	2007	N	1				1						
Downbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2007	N	2				2						
Downbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	1				1						
Downbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2007	N	1				1						
Downbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2007	N	2				2						
Downbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2007	N	2				2						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2007		1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2007	N	4				4						
Downbound	Domestic	4	823	2289	200.0	35.0	2	12.0	1.6	0.4	240	2007		3							3			
Downbound	Domestic	4	696	1644	200.0	35.0	2	9.0	1.6	0.4	180	2007		1							1			
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	163	2007		1							1			
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	189	2007	N	2							2			
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	196	2007	N	1							1			
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	21				21						
Downbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2007	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2007		1				1						
Downbound	Domestic	4	1052	1666	200.0	35.0	8	9.0	1.4	6.6	208	2007		1				1						
Downbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2007	N	1				1						
Downbound	Domestic	4	764	1497	200.0	35.0	8	9.0	1.9	6.1	205	2007	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2007	N	2				2						
Downbound	Domestic	5	855	1400	195.0	35.0	2	9.0	2.0	0.0	170	2007	N	1										1
Downbound	Domestic	4	196	375	61.6	31.2	2	9.0	1.8	0.2	125	2007		11							11			
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2007		3										3
Downbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	187	2007	N	1							1			
Downbound	Domestic	4	694	1743	195.0	35.0	2	10.0	1.6	0.4	176	2007	N	2							2			
Downbound	Domestic	3	634	999999	145.0	48.0	8	9.0	8.0	0.0	400	2007	N	1		1								
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2007		9				9						
Downbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2007	N	1				1						
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2007		3						3				
Downbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	135	2007	N	1				1						
Downbound	Domestic	5	1521	3600	294.5	54.0	9	10.0	2.0	7.0	170	2007		3						3				
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2007		1				1						
Downbound	Domestic	4	003195	1664	200.0	35.0	8	9.0	1.4	6.6	145	2007	N	1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2007		3		3								
Downbound	Domestic	3	58	85	46.7	28.0	10	9.3	9.3	0.7	260	2007		7		7								
Downbound	Domestic	4	698	1475	195.0	35.0	2	9.0	1.6	0.4	189	2007	N	5							5			
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2007	N	2							2			
Downbound	Domestic	4	745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2007	N	2							2			
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2007		1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2007	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2007		1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2007		1				1						
Downbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2007	N	2				2						
Downbound	Domestic	4	600	1674	200.0	35.0	8	9.0	1.3	6.7	208	2007	N	1				1						
Downbound	Domestic	4	706	1507	200.0	35.0	2	9.0	1.9	0.1	215	2007	N	4							4			
Downbound	Domestic	4	913	1539	200.1	35.1	2	9.0	1.6	0.4	136	2007		1							1			
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2007		2							2			
Downbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.9	0.1	194	2007	N	1							1			
Downbound	Domestic	4	764	2500	200.0	35.0	2	9.0	1.6	0.4	225	2007	N	1							1			
Downbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2007		14						14				
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	2.0	8.0	220	2007		1						1				
Downbound	Domestic	5	001754	4972	297.5	54.0	9	12.1	1.5	7.5	176	2007		5						5				

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
								An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.						OK			Loaded				Unloaded			
												Total Trips =		84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2007	N	2				2						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2007	N	11				11						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2007	N	3				3						
Downbound	Domestic	4	1039	1623	200.0	35.0	8	9.0	1.7	6.3	146	2007	N	1				1						
Downbound	Domestic	4	705	1674	200.0	35.0	9	9.0	1.5	7.5	223	2007		1				1						
Downbound	Domestic	4	886	1531	195.1	35.1	9	9.0	1.7	7.3	135	2007		1				1						
Downbound	Domestic	5	773	1300	195.0	35.0	2	8.6	2.0	0.0	166	2007	N	1										1
Downbound	Domestic	4	1020	1544	200.0	35.0	2	9.0	1.5	0.5	135	2007	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2007		2				2						
Downbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2007	N	2				2						
Downbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	206	2007	N	1				1						
Downbound	Domestic	4	802	1660	200.0	35.0	8	9.0	2.0	6.0	139	2007		2				2						
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2007		5								5		
Downbound	Domestic	4	000764	1530	200.0	35.0	2	9.0	1.7	0.3	209	2007		1								1		
Downbound	Domestic	3	643	999999	145.0	48.0	8	9.0	8.0	0.0	400	2007	N	4		4								
Downbound	Domestic	4	700	1511	195.0	35.0	2	9.0	1.6	0.4	190	2007	N	4								4		
Downbound	Domestic	3	402	999999	129.5	42.0	8	11.0	8.0	0.0	460	2007	N	3		3								
Downbound	Domestic	4	764	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2007	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2007		1								1		
Downbound	Domestic	5	2223	3400	297.5	54.0	10	10.0	2.0	8.0	180	2007		5						5				
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2007	N	13				13						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2007	N	7				7						
Downbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2007	N	4				4						
Downbound	Domestic	5	825	1608	200.1	35.1	8	9.0	1.7	6.3	183	2007	N	1						1				
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2007	N	1				1						
Downbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2007	N	2				2						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2007	N	2				2						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2007	N	1				1						
Downbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2007	N	2				2						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2007	N	2				2						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2007	N	3				3						
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2007		2				2						
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2007		2								2		
Downbound	Domestic	4	000687	1474	195.0	35.0	2	9.0	1.8	0.2	145	2007	N	1								1		
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2007	N	2										2
Downbound	Domestic	4	708	2125	195.0	35.0	2	14.0	1.7	0.3	218	2007	N	1								1		
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2007		2								2		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2007		3				3						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2007		2				2						
Downbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2007		3						3				
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2007	N	6				6						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2007	N	1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2007	N	3				3						
Downbound	Domestic	4	705	1501	200.0	35.0	9	12.0	1.5	7.5	186	2007	N	3				3						
Downbound	Domestic	4	764	1990	200.0	35.0	8	9.0	1.5	6.5	170	2007	N	1				1						
Downbound	Domestic	4	206	414	61.6	31.2	2	9.0	2.0	0.0	125	2007		2								2		
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2007	N	4										4
Downbound	Domestic	4	654	1743	195.0	35.0	2	10.0	1.6	0.4	176	2007	N	1								1		
Downbound	Domestic	4	700	1511	195.0	35.0	2	9.0	1.6	0.4	204	2007	N	4								4		
Downbound	Domestic	4	696	1644	200.0	35.0	2	9.0	1.6	0.4	180	2007	N	1								1		
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	9				9						
Downbound	Domestic	4	687	1534	195.0	35.0	9	9.0	1.5	7.5	146	2007	N	1				1						
Downbound	Domestic	5	2356	7068	293.0	50.0	2	8.5	2.7	-0.7	320	2007	N	1										1
Downbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2007	N	3				3						
Downbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2007	N	2				2						
Downbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2007	N	1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2007	N	8								8		
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2007		22		22								
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2007		5		5								
Downbound	Domestic	4	001020	1633	200.0	35.0	2	9.0	1.6	0.4	149	2007	N	1								1		
Downbound	Domestic	5	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2007	N	1										1
Downbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2007		2				2						
Downbound	Domestic	4	000705	2000	195.0	35.0	9	12.0	1.5	7.5	146	2007		1				1						
Downbound	Domestic	4	764	1603	200.0	35.0	8	9.0	1.5	6.5	170	2007		2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2007	N	3				3						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2007	N	2				2						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2007		8		8								
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2007	N	1								1		
Downbound	Domestic	4	546	1900	200.0	35.0	2	9.0	2.0	0.0	190	2007	N	2								2		
Downbound	Domestic	4	748	1642	200.0	35.0	2	9.0	1.6	0.4	196	2007	N	6								6		
Downbound	Domestic	4	735	1500	200.1	35.0	2	9.0	1.6	0.4	149	2007	N	2								2		
Downbound	Domestic	4	1024	1423	195.0	35.0	2	9.0	1.9	0.1	212	2007	N	1								1		
Downbound	Domestic	4	823	2297	200.0	35.0	9	12.0	1.5	7.5	225	2007		1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2007		1				1						
Downbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2007	N	1				1						
Downbound	Domestic	4	705	1889	200.0	35.0	9	10.0	1.4	7.6	140	2007		1				1						
Downbound	Domestic	4	966	1670	200.0	35.0	8	9.0	1.5	6.5	160	2007		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	235	2007	N	2				2						
Downbound	Domestic	4	705	9100	200.0	35.0	8	10.0	1.4	6.6	208	2007	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	7	9.0	1.6	5.4	225	2007	N	2				2						
Downbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2007	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	2	9.0	1.5	0.5	170	2007		1								1		
Downbound	Domestic	4	909	1525	195.0	35.0	2	9.0	1.5	0.5	203	2007	N	1								1		
Downbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2007	N	2								2		
Downbound	Domestic	4	823	1674	200.0	35.0	2	9.0	1.3	0.7	145	2007	N	1								1		
Downbound	Domestic	4	000764	1568	200.0	35.0	2	9.0	1.6	0.4	204	2007	N	1								1		
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2007		2						2				
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2007		6						6				
Downbound	Domestic	4	823	2739	200.0	35.0	10	12.0	1.6	8.4	250	2007	N	1				1						
Downbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2007	N	1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2007	N	3				3						
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2007	N	3				3						
Downbound	Domestic	4	750	1500	200.0	35.0	8	9.0	1.4	6.6	149	2007	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2007		1				1						
Downbound	Domestic	4	695	1532	195.0	35.0	9	9.0	1.5	7.5	146	2007	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2007		15								15		
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2007		6		6								
Downbound	Domestic	5	000891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2007	N	2										2
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2007	N	6								6		
Downbound	Domestic	4	937	1639	200.0	35.0	2	9.0	1.6	0.4	160	2007	N	1								1		
Downbound	Domestic	4	802	2110	200.0	35.0	1	12.0	1.8	-0.8	234	2007	N	1								1		
Upbound	Domestic	4	783	1937	195.0	35.0	9	11.0	1.8	7.2	210	2008		2			2							
Upbound	Domestic	5	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2008		4					4					
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2008	N	5			5							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	190	2008	N	1			1							
Upbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2008		1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2008		1			1							
Upbound	Domestic	4	966	1654	200.0	35.0	9	9.0	1.4	7.6	193	2008	N	1			1							
Upbound	Domestic	5	1038	2000	155.1	54.0	1	10.0	2.0	-1.0	180	2008		1									1	
Upbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2008		9		9								
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2008	N	1							1			
Upbound	Domestic	5	730	1409	195.0	35.0	8	8.6	2.0	6.0	190	2008		1					1					
Upbound	Domestic	4	823	1662	200.0	35.0	8	13.0	1.6	6.4	230	2008		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2008		5			5							
Upbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2008		2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.4	6.6	16	2008		1			1							
Upbound	Domestic	4	834	1701	195.1	35.0	8	10.0	1.7	6.3	210	2008	N	1			1							
Upbound	Domestic	4	687	1531	195.0	35.0	8	9.0	1.6	6.4	205	2008	N	1			1							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2008		1					1					
Upbound	Domestic	4	471	1510	195.0	35.0	8	9.0	1.6	6.4	119	2008		1			1							
Upbound	Domestic	4	705	1551	200.0	35.0	5	9.0	1.5	3.5	224	2008		0			0							
Upbound	Domestic	4	764	1990	200.0	35.0	7	11.0	4.0	3.0	170	2008		2			2							
Upbound	Domestic	4	764	1629	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2008		26		26								
Upbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2008	N	1							1			
Upbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2008	N	2							2			
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2008		3			3							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2008		2			2							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2008	N	5			5							
Upbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2008	N	1			1							
Upbound	Domestic	5	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2008	N	4									4	
Upbound	Domestic	4	687	1514	195.0	35.0	7	9.0	1.5	5.5	149	2008		1			1							
Upbound	Domestic	3	185	999999	56.0	28.0	6	7.0	6.0	0.0	320	2008		2		2								
Upbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2008	N	1									1	
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	165	2008	N	1							1			
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2008		1			1							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2008		1			1							
Upbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2008	N	3			3							
Upbound	Domestic	4	698	1536	195.0	35.0	8	9.0	1.5	6.5	196	2008	N	2			2							
Upbound	Domestic	4	564	1619	200.0	35.0	9	9.0	1.6	7.4	160	2008	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2008		1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	11.0	2.0	7.0	165	2008		1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2008		3			3							
Upbound	Domestic	4	705	1684	250.0	54.0	6	11.0	1.5	4.5	200	2008		1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2008	N	1			1							
Upbound	Domestic	4	687	1508	195.0	35.0	8	9.0	1.5	6.5	223	2008		1			1							
Upbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	145	2008	N	1			1							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	10.0	2.0	0.0	180	2008		2									2	
Upbound	Domestic	4	000764	1653	200.0	35.0	3	10.0	3.0	0.0	217	2008	N	1							1			
Upbound	Domestic	4	000695	1520	195.0	35.0	2	9.0	1.6	0.4	179	2008	N	1							1			
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2008		4			4							
Upbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2008		4			4							
Upbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2008		1							1			
Upbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2008		1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2008	N	4			4							
Upbound	Domestic	4	000823	1534	200.0	35.0	7	9.0	1.7	5.3	235	2008	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2008		1			1							
Upbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	187	2008		1			1							
Upbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2008	N	1			1							
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2008		5									5	
Upbound	Domestic	3	64	64	64.0	26.0	7	7.5	6.0	1.0	496	2008		1		1								
Upbound	Domestic	4	999999	1541	200.0	35.0	2	9.0	1.6	0.4	143	2008	N	1							1			
Upbound	Domestic	4	823	2410	200.0	35.0	9	14.0	1.5	7.5	190	2008		1			1							
Upbound	Domestic	4	966	1658	200.0	35.0	8	9.0	1.5	6.5	200	2008		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	7	9.0	1.8	5.2	189	2008	N	1			1							
Upbound	Domestic	4	000745	1510	195.0	35.0	7	9.0	1.6	5.4	155	2008	N	1			1							
Upbound	Domestic	5	633	1300	195.0	35.0	2	8.6	2.0	0.0	166	2008		1									1	
Upbound	Domestic	4	000706	1534	200.0	35.0	7	9.0	1.8	5.2	205	2008	N	1			1							
Upbound	Domestic	4	966	1630	200.0	35.0	8	9.0	1.6	6.4	193	2008	N	1			1							
Upbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	132	2008		1							1			
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2008	N	1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2008	N	1			1							
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2008	N	1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2008		1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2008		1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	6	9.0	1.6	4.4	225	2008	N	1			1							
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2008		7									7	
Upbound	Domestic	5	1876	3400	297.5	54.0	2	10.0	2.0	0.0	170	2008		6									6	
Upbound	Domestic	5	001619	3100	297.6	54.0	9	10.0	2.0	7.0	220	2008		1					1					
Upbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2008	N	4									4	
Upbound	Domestic	5	855	1400	195.0	35.0	2	9.0	2.0	0.0	170	2008	N	1									1	
Upbound	Domestic	4	676	1725	195.0	35.0	1	10.0	1.9	-0.9	200	2008		1							1			
Upbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2008		3			3							
Upbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2008		1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	7	12.0	1.6	5.4	225	2008		1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2008	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2008		4			4							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2008	N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	7	9.0	1.7	5.3	225	2008	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2008	N	7			7							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	6	9.0	1.5	4.5	189	2008	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	7	9.0	1.6	5.4	180	2008	N	1			1							
Upbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2008		1		1								
Upbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2008	N	1							1			
Upbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2008	N	1							1			
Upbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2008		1							1			
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2008	N	1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	3			3							
Upbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2008		1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2008		2			2							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2008		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	6	13.0	1.5	4.5	208	2008		1			1							
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2008		22		22								
Upbound	Domestic	5	001754	4972	297.5	54.0	8	12.1	1.5	6.5	176	2008		1					1					
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	2.0	7.0	135	2008		1			1							
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2008		14			14							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	215	2008		1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	6	9.0	1.3	4.7	145	2008	N	1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	7	9.0	1.7	5.3	165	2008	N	1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	6			6							
Upbound	Domestic	5	000891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2008	N	1					1					
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2008		1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2008		1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2008		1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	2			2							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2008		1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2008	N	2							2			
Upbound	Domestic	4	971	1637	200.0	35.0	3	9.0	1.3	1.7	193	2008	N	1							1			
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2008		11			11							
Upbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.6	5.4	225	2008	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2008	N	1			1							
Upbound	Domestic	4	1031	1530	195.0	35.0	8	9.0	1.6	6.4	170	2008		1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.9	7.1	220	2008	N	1			1							
Upbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2008		1			1							
Upbound	Domestic	4	879	1455	195.0	35.0	8	9.0	1.5	6.5	172	2008		1			1							
Upbound	Domestic	4	795	1665	200.0	35.0	2	9.0	1.4	0.6	147	2008	N	1							1			
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2008		11			11							
Upbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2008		2									2	
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2008		8			8							
Upbound	Domestic	4	764	1636	200.0	35.0	7	9.0	1.5	5.5	165	2008	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	885	1400	200.0	35.0	9	9.0	1.9	7.1	193	2008	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2008	N	1			1							
Upbound	Domestic	4	705	1727	200.0	35.0	9	9.0	1.1	7.9	146	2008	N	2			2							
Upbound	Domestic	5	001597	3844	297.0	54.0	1	10.0	0.6	0.4	280	2008		1									1	
Upbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2008	N	8		8								
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2008	N	1									1	
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2008		1									1	
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2008		2			2							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	204	2008		1			1							
Upbound	Domestic	5	001754	4329	297.5	54.0	9	13.0	2.0	7.0	176	2008		1					1					
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2008		7			7							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2008		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2008	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2008		3			3							
Upbound	Domestic	4	946	1667	200.0	35.0	8	9.0	1.5	6.5	196	2008		1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	7	10.0	1.5	5.5	149	2008		1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2008	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2008		4			4							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2008	N	1			1							
Upbound	Domestic	4	676	1500	195.0	35.0	9	9.0	2.0	7.0	162	2008		1			1							
Upbound	Domestic	4	001102	1664	200.0	35.0	8	9.0	1.4	6.6	146	2008	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2008		1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2008		2			2							
Upbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2008	N	3			3							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	166	2008	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2008		2			2							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2008		1			1							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2008		4		4								
Upbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2008	N	2							2			
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2008		7			7							
Upbound	Domestic	4	735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2008		2			2							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2008		2			2							
Upbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2008		1							1			
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2008	N	3			3							
Upbound	Domestic	4	764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2008	N	1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2008	N	1					1					
Upbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2008	N	1			1							
Upbound	Domestic	5	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2008		4					4					
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2008		1			1							
Upbound	Domestic	4	823	1643	200.0	35.0	11	11.0	1.5	9.5	9999	2008		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2008	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2008	N	2							2			
Upbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2008	N	2							2			
Upbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2008		4			4							
Upbound	Domestic	4	933	1527	195.0	35.0	10	12.0	1.5	8.5	199	2008		1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2008		2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2008		3			3							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2008	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2008		2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2008	N	1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	7	11.0	1.5	5.5	149	2008		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	10	12.0	1.6	8.4	250	2008		1			1							
Upbound	Domestic	4	764	1603	200.0	35.0	8	9.0	1.5	6.5	170	2008	N	1			1							
Upbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2008		2		2								
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2008		1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2008	N	5			5							
Upbound	Domestic	4	000706	1569	200.0	35.0	5	9.0	1.6	3.4	205	2008	N	1			1							
Upbound	Domestic	4	705	1544	200.0	35.0	6	9.0	1.5	4.5	150	2008	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2008		1			1							
Upbound	Domestic	4	848	1524	195.0	35.0	7	9.0	1.6	5.4	185	2008		1			1							
Upbound	Domestic	4	745	1485	195.0	35.0	9	9.0	1.8	7.2	225	2008	N	1			1							
Upbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2008		2			2							
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2008		2									2	
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2008		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	180	2008		1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	6	9.0	1.6	4.4	177	2008		1			1							
Upbound	Domestic	4	823	1842	200.0	35.0	9	10.0	1.8	7.2	210	2008		1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2008	N	2			2							
Upbound	Domestic	4	706	1627	200.0	35.0	8	9.0	1.3	6.7	155	2008	N	2			2							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	8			8							
Upbound	Domestic	5	740	1578	200.0	35.0	7	9.0	1.9	5.1	183	2008	N	1					1					
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2008	N	5			5							
Upbound	Domestic	4	000448	150	200.0	35.0	3	7.0	2.5	0.5	400	2008		6							6			
Upbound	Domestic	5	1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2008		4									4	
Upbound	Domestic	4	888	1475	195.0	35.0	9	9.0	1.6	7.4	206	2008		5			5							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2008		1			1							
Upbound	Domestic	4	888	1520	195.0	35.0	5	9.0	1.6	3.4	180	2008	N	0			0							
Upbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2008		1			1							
Upbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2008		1			1							
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2008	N	1			1							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2008		3			3							
Upbound	Domestic	4	546	1665	200.0	35.0	8	9.0	2.0	6.0	190	2008		1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2008		1			1							
Upbound	Domestic	4	942	1902	195.0	35.0	1	11.0	1.8	-0.8	180	2008		1							1			
Upbound	Domestic	4	000764	2468	200.0	35.0	11	13.0	1.5	9.5	208	2008		1			1							
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2008		12		12								
Upbound	Domestic	3	439	999999	145.2	28.0	7	7.5	7.0	0.0	388	2008		1		1								
Upbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2008		1					1					
Upbound	Domestic	4	764	1422	200.0	35.0	2	8.0	1.6	0.4	165	2008		1							1			
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2008		7			7							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2008		10			10							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2008		15			15							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.7	6.3	235	2008		1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2008	N	13			13							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2008	N	6			6							
Upbound	Domestic	4	764	1695	200.0	35.0	9	9.0	1.2	7.8	155	2008	N	1			1							
Upbound	Domestic	5	001619	3100	297.6	54.0	1	10.0	2.0	-1.0	220	2008		2									2	
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2008		9		9								
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2008	N	1							1			
Upbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2008		4							4			
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2008		1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	7	12.0	1.5	5.5	208	2008		1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2008		4					4					
Upbound	Domestic	4	705	1859	200.0	35.0	8	10.0	2.0	6.0	165	2008		1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2008	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2008	N	4			4							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2008	N	2			2							
Upbound	Domestic	4	676	1912	195.0	35.0	1	11.0	1.8	-0.8	180	2008		1							1			
Upbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2008		1			1							
Upbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2008		2			2							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2008	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2008		10		10								
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2008		4		4								
Upbound	Domestic	4	688	1680	200.0	35.0	2	9.0	1.5	0.5	210	2008		1							1			
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2008		11			11							
Upbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2008		5			5							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2008		6			6							
Upbound	Domestic	4	685	1550	195.0	35.0	8	9.0	1.5	6.5	190	2008		2			2							
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2008		2			2							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	12.0	1.8	6.2	170	2008		1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	214	2008		1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2008		1			1							
Upbound	Domestic	4	730	1664	200.0	35.0	8	9.0	1.4	6.6	148	2008	N	2			2							
Upbound	Domestic	4	706	1563	200.0	35.0	7	9.0	1.7	5.3	205	2008	N	1			1							
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2008		6									6	
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2008		4			4							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2008		8			8							
Upbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2008		3							3			
Upbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2008		1			1							
Upbound	Domestic	4	910	1449	195.0	35.0	8	9.0	1.9	6.1	203	2008	N	1			1							
Upbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2008		1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	170	2008	N	2			2							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.6	7.4	180	2008	N	1			1							
Upbound	Domestic	4	700	1802	195.0	35.0	7	9.0	1.6	5.4	180	2008		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2008		3			3							
Upbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2008	N	1			1							
Upbound	Domestic	3	62	999999	85.6	27.4	7	8.0	6.5	0.5	149	2008		3		3								
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	1.5	0.5	180	2008		2									2	
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2008		5			5							
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2008		5					5					
Upbound	Domestic	5	001754	4972	297.5	54.0	7	12.1	1.5	5.5	176	2008		0					0					
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2008		11			11							
Upbound	Domestic	4	687	1501	195.0	35.0	11	10.0	1.5	9.5	186	2008		1			1							
Upbound	Domestic	4	1033	1600	200.0	35.0	8	9.0	1.6	6.4	170	2008	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2008	N	8							8			
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2008	N	3			3							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2008		1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2008	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.1	6.9	170	2008	N	1			1							
Upbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2008		3			3							
Upbound	Domestic	5	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2008		3					3					
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2008		7			7							
Upbound	Domestic	4	823	2295	200.0	35.0	9	12.0	1.4	7.6	227	2008		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2008		5			5							
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	120	2008		2					2					
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2008	N	1			1							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2008		6			6							
Upbound	Domestic	4	783	1902	195.0	35.0	1	11.0	1.9	-0.9	199	2008		3							3			
Upbound	Domestic	5	822	1400	195.0	35.0	8	9.0	1.3	6.7	178	2008	N	1					1					
Upbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2008	N	1			1							
Upbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2008	N	2			2							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2008	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.6	0.4	180	2008	N	1							1			
Upbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2008		2							2			
Upbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2008		2			2							
Upbound	Domestic	5	822	1400	195.0	35.0	9	9.0	1.3	7.7	178	2008	N	1					1					
Upbound	Domestic	4	687	1500	195.0	35.0	9	9.0	1.6	7.4	210	2008	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2008		2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2008	N	3			3							
Upbound	Domestic	4	764	2187	200.0	35.0	7	12.0	1.7	5.3	240	2008		1			1							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2008		1			1							
Upbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2008	N	1			1							
Upbound	Domestic	5	2356	2500	270.0	50.0	2	9.0	3.0	-1.0	230	2008		1									1	
Upbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2008	N	1							1			
Upbound	Domestic	4	687	1534	195.0	35.0	2	9.0	1.5	0.5	145	2008	N	1							1			
Upbound	Domestic	4	971	1524	200.0	35.0	3	9.0	2.1	0.9	193	2008	N	1							1			
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2008		7			7							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2008		13			13							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2008		6			6							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2008		2			2							
Upbound	Domestic	4	676	1668	195.0	35.0	8	9.0	1.4	6.6	180	2008	N	1			1							
Upbound	Domestic	4	971	1557	200.0	35.0	8	9.0	1.7	6.3	193	2008	N	2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2008		2			2							
Upbound	Domestic	4	950	1500	200.1	35.0	8	9.0	1.9	6.1	149	2008		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	165	2008	N	2			2							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2008		1			1							
Upbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2008	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2008		1							1			
Upbound	Domestic	5	001754	4329	297.5	54.0	2	13.0	2.0	0.0	176	2008		1									1	
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2008		8			8							
Upbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2008		2			2							
Upbound	Domestic	4	711	1732	195.0	35.0	9	10.0	1.6	7.4	192	2008		1			1							
Upbound	Domestic	4	1020	1544	200.0	35.0	9	9.0	1.5	7.5	135	2008		2			2							
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2008		3			3							
Upbound	Domestic	4	705	9100	200.0	35.0	9	10.0	1.4	7.6	208	2008		1			1							
Upbound	Domestic	4	705	1500	200.0	35.0	9	9.0	1.5	7.5	120	2008		1			1							
Upbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2008	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2008	N	4			4							
Upbound	Domestic	4	676	1492	195.0	35.0	9	9.0	1.8	7.2	162	2008	N	1			1							
Upbound	Domestic	4	764	1558	200.0	35.0	6	9.0	1.5	4.5	160	2008		1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	7	9.0	1.5	5.5	208	2008	N	1			1							
Upbound	Domestic	4	1020	1644	200.0	35.0	8	9.0	1.6	6.4	166	2008	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2008	N	1			1							
Upbound	Domestic	4	676	1511	195.0	35.0	9	9.0	1.6	7.4	192	2008	N	1			1							
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2008		3		3								
Upbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2008		2							2			
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2008		1			1							
Upbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	1			1							
Upbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2008		1			1							
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2008		1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	10	11.0	1.7	8.3	224	2008		1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2008		5			5							
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2008		1									1	
Upbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2008	N	1							1			
Upbound	Domestic	4	1052	1600	200.0	35.0	2	9.0	1.6	0.4	160	2008	N	1							1			
Upbound	Domestic	4	950	1650	200.0	35.0	8	9.0	1.5	6.5	190	2008		1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2008		2			2							
Upbound	Domestic	4	764	1527	200.0	35.0	7	9.0	1.8	5.2	205	2008	N	1			1							
Upbound	Domestic	4	000764	2353	200.0	35.0	8	12.9	1.6	6.4	205	2008		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	12	12.0	1.6	10.4	250	2008		2			2							
Upbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2008		1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2008		10			10							
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2008		27		27								
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2008		12			12							
Upbound	Domestic	5	805	1433	195.0	35.0	8	9.0	1.1	6.9	166	2008	N	5					5					
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2008	N	2					2					
Upbound	Domestic	4	802	1660	200.0	35.0	8	9.0	2.0	6.0	139	2008		1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	6	9.0	1.6	4.4	225	2008	N	1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	9	9.0	1.7	7.3	163	2008	N	1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2008	N	2			2							
Upbound	Domestic	4	000705	1617	200.0	35.0	7	9.0	1.6	5.4	205	2008	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.8	7.2	190	2008		1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.6	5.4	149	2008		1			1							
Upbound	Domestic	4	000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2008	N	1			1							
Upbound	Domestic	5	1961	3500	297.5	54.0	2	8.5	2.0	0.0	100	2008		6									6	
Upbound	Domestic	4	888	1519	195.0	35.0	2	9.0	1.5	0.5	193	2008	N	1							1			
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2008		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2008		4			4							
Upbound	Domestic	4	823	2403	200.0	35.0	9	12.6	1.7	7.3	190	2008		1			1							
Upbound	Domestic	4	1072	1870	200.0	35.0	9	10.0	1.5	7.5	169	2008		2			2							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	225	2008	N	1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2008	N	2			2							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2008		2			2							
Upbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2008		2			2							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	1			1							
Upbound	Domestic	4	986	1477	195.0	35.0	9	9.0	1.8	7.2	205	2008	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	6	9.0	1.5	4.5	189	2008	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2008	N	1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2008		2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2008		1			1							
Upbound	Domestic	4	687	1633	195.0	35.0	6	9.0	1.4	4.6	133	2008		1			1							
Upbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2008	N	1									1	
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2008		1									1	
Upbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2008		1							1			
Upbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2008		1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2008		2			2							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	3			3							
Upbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2008		2			2							
Upbound	Domestic	4	705	1662	200.0	35.0	8	9.0	1.6	6.4	208	2008	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2008		5			5							
Upbound	Domestic	4	676	1725	195.0	35.0	1	10.0	1.6	-0.6	200	2008		1							1			
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2008		10			10							
Upbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2008		1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2008		1			1							
Upbound	Domestic	5	891	1580	200.0	35.0	8	9.0	1.9	6.1	142	2008	N	6					6					
Upbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2008	N	3			3							
Upbound	Domestic	4	1008	1600	200.0	35.0	9	9.0	2.0	7.0	170	2008	N	1			1							
Upbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2008	N	2			2							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2008		1			1							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2008		1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2008		1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2008		1			1							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2008	N	1			1							
Upbound	Domestic	4	000432	1296	105.0	35.0	8	10.0	2.0	6.0	9999	2008		1			1							
Upbound	Domestic	4	950	1500	200.0	35.0	8	9.0	1.6	6.4	149	2008		1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2008		2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2008	N	2			2							
Upbound	Domestic	4	764	1535	200.0	35.0	6	9.0	1.8	4.2	225	2008	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	7			7							
Upbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2008		1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.6	6.4	145	2008	N	1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	2			2							
Upbound	Domestic	4	771	1660	200.0	35.0	8	9.0	1.4	6.6	218	2008		1			1							
Upbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2008		1		1								
Upbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2008	N	1							1			
Upbound	Domestic	3	402	999999	129.5	42.0	8	11.0	8.0	0.0	460	2008	N	5		5								
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2008		3							3			
Upbound	Domestic	4	705	1552	200.0	35.0	2	9.0	1.5	0.5	223	2008		2							2			
Upbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2008	N	1			1							
Upbound	Domestic	4	823	2345	200.0	35.0	2	12.0	1.7	0.3	223	2008	N	1							1			
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2008		2			2							
Upbound	Domestic	5	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2008	N	11									11	
Upbound	Domestic	4	823	2304	200.0	35.0	6	10.0	1.7	4.3	190	2008		1			1							
Upbound	Domestic	4	1072	1664	200.0	35.0	8	9.0	1.4	6.6	208	2008		1			1							
Upbound	Domestic	5	773	1428	195.1	35.1	8	8.7	1.7	6.3	170	2008	N	2					2					
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2008	N	1			1							
Upbound	Domestic	4	696	1643	200.0	35.0	2	9.0	1.6	0.4	149	2008	N	1							1			
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2008		1			1							
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.5	6.5	160	2008		1			1							
Upbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2008		2			2							
Upbound	Domestic	4	000823	1641	200.0	35.0	8	13.0	1.6	6.4	230	2008		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2008	N	6			6							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2008	N	9			9							
Upbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	3			3							
Upbound	Domestic	4	1009	1531	195.0	35.0	9	9.0	1.6	7.4	193	2008		1			1							
Upbound	Domestic	4	688	1495	195.0	35.0	8	9.0	1.9	6.1	169	2008		1			1							
Upbound	Domestic	4	710	1557	195.0	35.0	10	9.2	1.6	8.4	139	2008		1			1							
Upbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2008		1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2008		2									2	
Upbound	Domestic	4	848	1524	195.0	35.0	2	9.0	1.6	0.4	185	2008	N	2							2			
Upbound	Domestic	4	543	1497	195.0	35.0	2	9.0	1.6	0.4	119	2008		1							1			
Upbound	Domestic	4	700	1487	195.0	35.0	2	9.0	1.7	0.3	180	2008	N	1							1			
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2008		1			1							
Upbound	Domestic	4	678	1496	195.0	35.0	9	9.0	1.6	7.4	212	2008		1			1							
Upbound	Domestic	4	676	1500	195.0	35.0	8	9.0	2.0	6.0	162	2008		7			7							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2008		5			5							
Upbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2008	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	7	9.0	1.4	5.6	235	2008	N	1			1							
Upbound	Domestic	4	705	1559	200.0	35.0	6	9.0	1.5	4.5	150	2008		1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2008		2		2								
Upbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2008		2			2							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2008		2			2							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2008	N	4			4							
Upbound	Domestic	4	000687	1531	195.0	35.0	8	9.0	1.6	6.4	147	2008	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2008	N	2							2			
Upbound	Domestic	4	764	1559	200.0	35.0	7	9.0	1.5	5.5	170	2008		4			4							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2008	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	11.0	1.8	7.2	170	2008		1			1							
Upbound	Domestic	5	001619	3500	297.6	54.0	2	9.0	1.0	1.0	220	2008		1									1	
Upbound	Domestic	4	727	1772	200.0	35.0	2	10.0	1.5	0.5	148	2008		2							2			
Upbound	Domestic	4	705	1546	200.0	35.0	2	9.0	1.5	0.5	223	2008		1							1			
Upbound	Domestic	4	909	1445	195.0	35.0	2	9.0	1.9	0.1	203	2008	N	1							1			
Upbound	Domestic	4	764	1560	200.0	35.0	7	9.0	1.6	5.4	225	2008	N	3			3							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2008	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2008		2			2							
Upbound	Domestic	4	676	1376	195.0	35.0	8	8.5	1.0	7.0	160	2008		1			1							
Upbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	160	2008	N	1			1							
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2008		7									7	
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2008		28		28								
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2008		5									5	
Upbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2008	N	1									1	
Upbound	Domestic	4	764	1956	200.0	35.0	6	9.0	2.0	4.0	130	2008		1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2008		5			5							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2008		2			2							
Upbound	Domestic	4	000687	1462	195.0	35.0	7	9.0	1.9	5.1	205	2008	N	1			1							
Upbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2008	N	1			1							
Upbound	Domestic	4	687	1722	195.0	35.0	9	10.0	1.6	7.4	205	2008		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2008		1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	6	9.0	2.0	4.0	192	2008		1			1							
Upbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.8	6.2	170	2008		1			1							
Upbound	Domestic	4	676	1511	195.0	35.0	8	9.0	1.6	6.4	192	2008	N	1			1							
Upbound	Domestic	4	764	1517	200.0	35.0	7	9.0	1.9	5.1	225	2008	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2008		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2008		1			1							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2008	N	1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	8	8.6	7.5	0.5	350	2008		16		16								
Upbound	Domestic	5	001754	4972	297.5	54.0	2	12.1	1.5	0.5	176	2008		1									1	
Upbound	Domestic	4	688	1495	195.0	35.0	2	9.0	1.9	0.1	169	2008	N	2							2			
Upbound	Domestic	4	705	1877	200.0	35.0	2	10.0	1.4	0.6	146	2008		1							1			
Upbound	Domestic	4	705	1877	200.0	35.0	2	10.0	1.5	0.5	146	2008		1							1			
Upbound	Domestic	4	000764	1862	200.0	35.0	3	10.0	1.5	1.5	191	2008	N	1							1			
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2008		2			2							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2008		6			6							
Upbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2008		2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.7	6.3	240	2008		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	21			21							
Upbound	Domestic	4	000706	1569	200.0	35.0	7	9.0	1.6	5.4	205	2008	N	2			2							
Upbound	Domestic	4	823	1624	200.0	35.0	9	9.0	1.6	7.4	200	2008		1			1							
Upbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2008		1			1							
Upbound	Domestic	4	922	1842	200.0	35.0	9	10.0	1.8	7.2	210	2008		1			1							
Upbound	Domestic	4	736	1654	200.0	35.0	8	9.0	1.5	6.5	187	2008		2			2							
Upbound	Domestic	4	888	1520	195.0	35.0	9	9.0	1.6	7.4	180	2008	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2008		2							2			
Upbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2008		2			2							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2008		9			9							
Upbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.6	6.4	206	2008		18			18							
Upbound	Domestic	4	764	1637	200.0	35.0	5	9.0	1.5	3.5	155	2008		2			2							
Upbound	Domestic	5	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2008	N	7									7	
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2008	N	7			7							
Upbound	Domestic	4	676	1521	195.0	35.0	8	9.0	1.5	6.5	165	2008	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2008		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2008		2			2							
Upbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	168	2008		1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	6	9.0	1.4	4.6	160	2008		1			1							
Upbound	Domestic	4	764	1548	200.0	35.0	9	9.0	1.7	7.3	212	2008		1			1							
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2008		4									4	
Upbound	Domestic	4	681	1500	195.0	35.0	8	9.0	1.6	6.4	190	2008		2			2							
Upbound	Domestic	4	823	2280	200.0	35.0	9	12.0	1.4	7.6	223	2008		1			1							
Upbound	Domestic	4	701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2008		1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2008		6			6							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2008		16			16							
Upbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.6	7.4	225	2008	N	1			1							
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2008	N	3			3							
Upbound	Domestic	4	888	1500	195.1	35.0	8	9.0	1.6	6.4	149	2008		1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2008	N	2			2							
Upbound	Domestic	4	688	2142	195.0	35.0	2	11.0	1.5	0.5	160	2008	N	2							2			
Upbound	Domestic	4	1013	1508	195.0	35.0	2	8.7	1.7	0.3	211	2008	N	1							1			
Upbound	Domestic	4	000910	1659	200.0	35.0	2	9.0	1.5	0.5	194	2008	N	1							1			
Upbound	Domestic	4	689	1470	195.0	35.0	8	9.0	1.7	6.3	188	2008		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2008	N	2			2							
Upbound	Domestic	4	676	1492	195.0	35.0	8	9.0	1.8	6.2	164	2008	N	1			1							
Upbound	Domestic	5	716	1450	195.0	35.0	7	8.5	2.7	4.3	145	2008		2					2					
Upbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	2			2							
Upbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2008	N	2			2							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2008		1			1							
Upbound	Domestic	4	823	2750	200.0	35.0	12	14.0	1.6	10.4	250	2008		1			1							
Upbound	Domestic	4	764	1619	200.0	35.0	8	9.0	1.3	6.7	165	2008	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2008	N	1			1							
Upbound	Domestic	4	663	1892	200.0	35.0	6	10.0	1.4	4.6	140	2008		1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.6	7.4	190	2008	N	1			1							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2008	N	1			1							
Upbound	Domestic	4	856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2008	N	1							1			
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2008	N	4			4							
Upbound	Domestic	4	696	1600	200.0	35.0	8	9.0	1.5	6.5	190	2008		1			1							
Upbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2008		1			1							
Upbound	Domestic	4	564	1619	200.0	35.0	7	9.0	1.6	5.4	160	2008	N	1			1							
Upbound	Domestic	4	1013	1508	195.0	35.0	9	8.7	1.7	7.3	211	2008	N	1			1							
Upbound	Domestic	5	000891	1591	200.0	35.0	7	9.0	1.9	5.1	142	2008	N	1					1					
Upbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2008		1							1			
Upbound	Domestic	3	58	85	46.7	28.0	10	9.3	9.3	0.7	260	2008		2		2								
Upbound	Domestic	4	000823	2200	200.0	35.0	2	12.0	2.0	0.0	165	2008		1							1			
Upbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2008		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2008		3							3			
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2008	N	4			4							
Upbound	Domestic	4	764	1865	200.0	35.0	9	12.0	1.5	7.5	208	2008		1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	205	2008		1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2008	N	1			1							
Upbound	Domestic	4	764	2468	200.0	35.0	7	12.0	1.5	5.5	208	2008		1			1							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2008	N	1			1							
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2008		1			1							
Upbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2008	N	1			1							
Upbound	Domestic	5	1521	3600	294.5	54.0	2	10.0	2.0	0.0	170	2008		6									6	
Upbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	214	2008		1							1			
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2008		31		31								
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2008		2			2							
Upbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2008		1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	3			3							
Upbound	Domestic	4	000705	1645	200.0	35.0	7	9.0	1.5	5.5	205	2008	N	1			1							
Upbound	Domestic	4	917	1587	200.1	35.1	9	9.0	1.5	7.5	161	2008		1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2008	N	2			2							
Upbound	Domestic	4	687	1571	195.0	35.0	8	9.0	1.3	6.7	145	2008	N	1			1							
Upbound	Domestic	4	706	1660	200.0	35.0	8	9.0	1.5	6.5	196	2008	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	6	9.0	1.5	4.5	170	2008		1			1							
Upbound	Domestic	4	000687	1504	195.0	35.0	8	9.0	1.6	6.4	205	2008	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2008		1			1							
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2008		7		7								
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2008		2									2	
Upbound	Domestic	5	766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2008	N	1									1	
Upbound	Domestic	4	764	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2008		1							1			
Upbound	Domestic	4	687	1633	195.0	35.0	2	9.0	1.4	0.6	133	2008		1							1			
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2008		7			7							
Upbound	Domestic	4	705	1554	200.0	35.0	5	9.0	1.5	3.5	150	2008	N	1			1							
Upbound	Domestic	4	000687	1504	195.0	35.0	9	9.0	1.6	7.4	205	2008	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2008	N	1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2008		1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2008		13		13								
Upbound	Domestic	5	001597	3844	300.0	54.0	1	10.0	0.6	0.4	280	2008		1									1	
Upbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2008	N	1							1			
Upbound	Domestic	4	975	1489	195.0	35.0	8	9.0	1.7	6.3	145	2008	N	1			1							
Upbound	Domestic	4	764	1554	200.0	35.0	6	9.0	1.5	4.5	170	2008		1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	7	9.0	1.6	5.4	139	2008		1			1							
Upbound	Domestic	5	2147	3400	297.5	54.0	2	10.0	2.0	0.0	180	2008		4									4	
Upbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2008	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	745	1534	195.0	35.0	8	9.0	1.5	6.5	210	2008	N	1			1							
Upbound	Domestic	4	687	1574	195.0	35.0	9	9.0	1.3	7.7	145	2008	N	1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2008		2			2							
Upbound	Domestic	4	971	1557	200.0	35.0	9	9.0	1.7	7.3	193	2008	N	1			1							
Upbound	Domestic	5	2431	2500	280.0	50.0	2	9.0	2.5	-0.5	220	2008		3									3	
Upbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2008		3		3								
Upbound	Domestic	4	687	2061	195.0	35.0	2	9.0	1.5	0.5	160	2008	N	1							1			
Upbound	Domestic	3	634	999999	145.0	48.0	8	9.0	8.0	0.0	400	2008	N	1		1								
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2008		4			4							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2008		10			10							
Upbound	Domestic	4	862	1736	195.0	35.0	6	10.0	2.0	4.0	192	2008		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	8	12.0	1.5	6.5	195	2008		2			2							
Upbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2008		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2008	N	6			6							
Upbound	Domestic	4	1024	1426	195.0	35.0	8	9.0	2.0	6.0	170	2008	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2008		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2008		2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	6	10.0	1.6	4.4	149	2008		1			1							
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2008		36		36								
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2008		9									9	
Upbound	Domestic	4	1223	1556	200.0	35.0	2	8.9	1.8	0.2	190	2008	N	1							1			
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2008		11			11							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2008		4			4							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2008		1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2008		1			1							
Upbound	Domestic	4	909	1445	195.0	35.0	9	9.0	1.9	7.1	203	2008	N	1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	1			1							
Upbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2008	N	1			1							
Upbound	Domestic	4	706	1587	200.0	35.0	6	9.0	1.5	4.5	155	2008	N	1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	7	10.0	1.5	5.5	148	2008		1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2008	N	2			2							
Upbound	Domestic	4	695	1520	195.0	35.0	8	9.0	1.6	6.4	146	2008	N	1			1							
Upbound	Domestic	5	945	1500	195.0	35.0	2	9.0	2.0	0.0	320	2008	N	2									2	
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2008		5									5	
Upbound	Domestic	4	543	1497	195.0	35.0	2	9.0	1.6	0.4	183	2008		1							1			
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2008		10			10							
Upbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2008		3			3							
Upbound	Domestic	5	759	1578	200.0	35.0	8	9.0	1.9	6.1	164	2008	N	3					3					
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2008	N	1			1							
Upbound	Domestic	4	823	2187	200.0	35.0	8	12.0	1.7	6.3	240	2008		1			1							
Upbound	Domestic	4	848	1525	195.0	35.0	8	9.0	1.6	6.4	160	2008		1			1							
Upbound	Domestic	4	705	1646	200.0	35.0	2	9.0	1.5	0.5	165	2008		1							1			
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2008		10			10							
Upbound	Domestic	5	773	1489	195.0	35.0	8	9.0	1.3	6.7	160	2008		1					1					
Upbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2008	N	3			3							
Upbound	Domestic	4	687	1500	195.0	35.0	8	12.0	1.3	6.7	149	2008		1			1							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2008		7			7							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2008	N	8							8			
Upbound	Domestic	4	764	1629	200.0	35.0	6	9.0	1.5	4.5	225	2008	N	1			1							
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2008	N	14					14					
Upbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2008	N	1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2008	N	1			1							
Upbound	Domestic	4	000764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2008	N	1			1							
Upbound	Domestic	4	471	1510	195.0	35.0	5	9.0	1.6	3.4	119	2008		1			1							
Upbound	Domestic	4	000823	2297	200.0	35.0	9	12.0	1.6	7.4	225	2008		1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2008		2							2			
Upbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	160	2008	N	1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2008	N	4			4							
Upbound	Domestic	5	894	1591	200.0	35.0	8	9.0	1.9	6.1	142	2008	N	1					1					
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	149	2008		2			2							
Upbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.4	7.6	130	2008		1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2008		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	12	13.0	1.5	10.5	208	2008		2			2							
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2008		7									7	
Upbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2008	N	3									3	
Upbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2008	N	1							1			
Upbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2008		4			4							
Upbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2008		2									2	
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2008	N	2			2							
Upbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2008		2			2							
Upbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2008		1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2008	N	2			2							
Upbound	Domestic	4	705	2002	200.0	35.0	7	9.0	2.0	5.0	190	2008	N	1			1							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.5	6.5	160	2008	N	1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2008		3			3							
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2008		1			1							
Upbound	Domestic	4	848	1524	195.0	35.0	8	9.0	1.6	6.4	185	2008		1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2008		1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2008	N	4			4							
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2008		1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	1			1							
Upbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2008		1			1							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2008		1			1							
Upbound	Domestic	5	1803	2500	295.0	52.0	2	9.0	2.5	-0.5	340	2008		3									3	
Upbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2008		1			1							
Upbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2008		3			3							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2008		2			2							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2008		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2008		2			2							
Upbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2008		3			3							
Upbound	Domestic	4	000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2008	N	1			1							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2008		1			1							
Upbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2008		3			3							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2008		5			5							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2008		4			4							
Upbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2008		1			1							
Upbound	Domestic	4	705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2008		1			1							
Upbound	Domestic	4	735	1500	200.1	35.0	8	9.0	1.6	6.4	149	2008		1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2008	N	4			4							
Upbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2008		5			5							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2008	N	1			1							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2008		1			1							
Upbound	Domestic	5	1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2008		8									8	
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2008	N	6			6							
Upbound	Domestic	4	1063	1426	200.0	35.0	9	9.0	1.6	7.4	170	2008	N	1			1							
Upbound	Domestic	4	745	1714	195.0	35.0	7	9.0	1.6	5.4	148	2008	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2008	N	2			2							
Upbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.5	6.5	192	2008		2			2							
Upbound	Domestic	4	705	1554	200.0	35.0	6	9.0	1.5	4.5	150	2008		7			7							
Upbound	Domestic	4	687	1510	195.0	35.0	8	9.0	1.6	6.4	119	2008		3			3							
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.6	6.4	149	2008		1			1							
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2008		27		27								
Upbound	Domestic	4	764	1969	200.0	35.0	2	10.5	1.7	0.3	180	2008	N	1							1			
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2008	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2008		1							1			
Upbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2008		1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2008		4			4							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	13.0	1.8	6.2	190	2008		3			3							
Upbound	Domestic	4	862	1725	195.0	35.0	8	10.0	2.0	6.0	192	2008		2			2							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2008		6			6							
Upbound	Domestic	4	764	1557	200.0	35.0	9	9.0	1.5	7.5	135	2008		2			2							
Upbound	Domestic	4	1051	1586	200.1	35.1	9	8.7	1.5	7.5	171	2008		2			2							
Upbound	Domestic	4	745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2008	N	1			1							
Upbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2008	N	2			2							
Upbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2008	N	1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2008	N	1			1							
Upbound	Domestic	4	687	1571	195.0	35.0	7	9.0	1.3	5.7	145	2008	N	1			1							
Upbound	Domestic	4	000745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2008	N	1			1							
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2008		3			3							
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2008		10									10	
Upbound	Domestic	3	000433	637	136.0	40.0	8	10.3	8.6	-0.6	420	2008		1		1								
Upbound	Domestic	4	694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2008		2			2							
Upbound	Domestic	4	888	1529	195.0	35.0	8	9.0	1.5	6.5	160	2008		12			12							
Upbound	Domestic	4	000705	1612	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	2			2							
Upbound	Domestic	5	835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2008	N	3					3					
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2008	N	1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2008		1							1			
Downbound	Domestic	5	1876	3300	297.5	54.0	8	9.6	1.5	6.5	180	2008		2						2				
Downbound	Domestic	5	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2008		3						3				
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2008	N	3				3						
Downbound	Domestic	4	705	1544	200.0	35.0	6	9.0	1.5	4.5	150	2008		1				1						
Downbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2008		1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	7	9.0	1.6	5.4	225	2008	N	2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	190	2008	N	1				1						
Downbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2008		7		7								
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2008	N	1								1		
Downbound	Domestic	4	676	1725	195.0	35.0	1	10.0	1.6	-0.6	200	2008	N	1								1		
Downbound	Domestic	4	879	1455	195.0	35.0	2	9.0	1.5	0.5	172	2008	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2008		5				5						
Downbound	Domestic	5	001754	4329	297.5	54.0	6	13.0	2.0	4.0	176	2008		1						1				
Downbound	Domestic	5	000735	1550	200.0	35.0	9	10.0	1.5	7.5	240	2008		4						4				
Downbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2008		1				1						
Downbound	Domestic	4	764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2008		1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	3				3						
Downbound	Domestic	4	687	1531	195.0	35.0	8	9.0	1.6	6.4	205	2008	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2008		1				1						
Downbound	Domestic	4	687	1605	195.0	35.0	7	9.5	1.5	5.5	146	2008		1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	8	13.0	1.6	6.4	230	2008		1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2008		32		32								
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2008	N	6								6		
Downbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2008	N	1								1		
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2008		1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	7	9.0	1.6	5.4	225	2008	N	1				1						
Downbound	Domestic	5	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2008	N	5										5
Downbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2008	N	1				1						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2008		1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2008	N	5				5						
Downbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2008	N	2				2						
Downbound	Domestic	4	471	1510	195.0	35.0	9	9.0	1.6	7.4	119	2008		2				2						
Downbound	Domestic	3	185	999999	56.0	28.0	6	7.0	6.0	0.0	320	2008		1		1								
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2008	N	2								2		
Downbound	Domestic	4	696	1600	200.0	35.0	2	9.0	1.5	0.5	190	2008		1								1		
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2008	N	1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2008		1				1						
Downbound	Domestic	4	698	1536	195.0	35.0	8	9.0	1.5	6.5	196	2008	N	2				2						
Downbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2008	N	1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2008		1				1						
Downbound	Domestic	4	1033	1600	200.0	35.0	9	9.0	1.6	7.4	170	2008	N	1				1						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2008		1				1						
Downbound	Domestic	4	687	1508	195.0	35.0	8	9.0	1.5	6.5	223	2008		1				1						
Downbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2008		1										1
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2008	N	6								6		
Downbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2008		3				3						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2008		3				3						
Downbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2008		1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2008	N	7				7						
Downbound	Domestic	4	705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2008		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2008		1				1						
Downbound	Domestic	4	888	1519	195.0	35.0	8	9.0	1.5	6.5	187	2008		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.7	0.3	240	2008		1								1		
Downbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2008	N	1								1		
Downbound	Domestic	4	698	1475	195.0	35.0	2	9.0	1.6	0.4	189	2008	N	2								2		
Downbound	Domestic	4	000687	1531	195.0	35.0	2	9.0	1.6	0.4	147	2008	N	1								1		
Downbound	Domestic	4	727	1772	200.0	35.0	2	10.0	1.5	0.5	148	2008	N	1								1		
Downbound	Domestic	4	717	1662	200.0	35.0	2	9.0	1.4	0.6	191	2008	N	2								2		
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2008		1				1						
Downbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2008	N	1								1		
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2008	N	1								1		
Downbound	Domestic	4	901	1450	195.0	35.0	2	9.0	1.5	0.5	190	2008	N	2								2		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2008		1				1						
Downbound	Domestic	5	001619	3100	297.6	54.0	9	10.0	2.0	7.0	220	2008		4						4				
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2008	N	2				2						
Downbound	Domestic	4	764	2400	200.0	35.0	9	9.0	1.6	7.4	225	2008	N	1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2008		3				3						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2008		1				1						
Downbound	Domestic	4	848	1525	195.0	35.0	9	9.0	1.6	7.4	160	2008		1				1						
Downbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2008	N	1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2008	N	1				1						
Downbound	Domestic	4	764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2008		1				1						
Downbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2008	N	2										2
Downbound	Domestic	4	701	1508	195.0	35.0	2	9.0	1.6	0.4	196	2008	N	3								3		
Downbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2008		2				2						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2008	N	3				3						
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.4	7.6	225	2008	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2008		1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	154	2008	N	1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	7	9.0	1.7	5.3	225	2008	N	1				1						
Downbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2008		1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2008		1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2008	N	1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2008		10								10		
Downbound	Domestic	4	862	1725	195.0	35.0	2	10.0	2.0	0.0	192	2008	N	1								1		
Downbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2008		1		1								
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2008	N	1								1		
Downbound	Domestic	4	697	1729	195.0	35.0	2	10.0	1.5	0.5	176	2008	N	1								1		
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2008		7						7				
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	204	2008		1								1		
Downbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2008		1				1						
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2008		3						3				
Downbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2008		2								2		
Downbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2008		2				2						
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2008	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2008	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2008	N	4				4						
Downbound	Domestic	4	663	1892	200.0	35.0	8	10.0	1.4	6.6	140	2008		1				1						
Downbound	Domestic	4	946	1667	200.0	35.0	9	9.0	1.5	7.5	196	2008		1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2008		24		24								
Downbound	Domestic	4	774	1450	195.0	35.0	2	9.0	1.5	0.5	190	2008	N	3								3		
Downbound	Domestic	4	764	1546	200.0	35.0	2	9.0	1.5	0.5	170	2008		1								1		
Downbound	Domestic	5	001754	4972	297.5	54.0	8	12.1	1.5	6.5	176	2008		1						1				
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	5				5						
Downbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2008		4				4						
Downbound	Domestic	4	823	2345	200.0	35.0	8	12.0	1.7	6.3	223	2008	N	1				1						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2008		1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2008		1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2008		5								5		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2008	N	1								1		
Downbound	Domestic	4	705	1727	200.0	35.0	2	9.0	1.1	0.9	146	2008	N	1								1		
Downbound	Domestic	4	687	1722	195.0	35.0	1	10.0	1.6	-0.6	205	2008	N	1								1		
Downbound	Domestic	5	1961	3500	297.5	54.0	10	8.5	2.0	8.0	100	2008		4						4				
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2008		5				5						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2008	N	1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2008	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2008		2				2						
Downbound	Domestic	4	957	1666	200.0	35.0	8	9.0	1.6	6.4	160	2008		1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.9	7.1	220	2008	N	2				2						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2008		1				1						
Downbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2008	N	1								1		
Downbound	Domestic	5	000891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2008	N	2										2
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2008		7				7						
Downbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2008		4										4
Downbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2008	N	2				2						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2008		3				3						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2008	N	2				2						
Downbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2008	N	8		8								
Downbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2008	N	3								3		
Downbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2008	N	1										1
Downbound	Domestic	5	001754	4329	297.5	54.0	9	13.0	2.0	7.0	176	2008		1						1				
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2008		7				7						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2008		1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2008	N	2				2						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2008		1				1						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2008	N	1				1						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	204	2008		1				1						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2008		5						5				
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2008		2				2						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2008		4				4						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2008		3				3						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2008	N	1				1						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2008		1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2008		1				1						
Downbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2008	N	2				2						
Downbound	Domestic	4	730	1664	200.0	35.0	9	9.0	1.7	7.3	160	2008		1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2008		6		6								
Downbound	Domestic	4	687	1514	195.0	35.0	2	9.0	1.5	0.5	149	2008		1								1		
Downbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2008	N	1								1		
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2008	N	3								3		
Downbound	Domestic	4	735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2008		2				2						
Downbound	Domestic	5	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2008		3						3				
Downbound	Domestic	5	1876	3400	297.5	54.0	10	10.0	2.0	8.0	170	2008		3						3				
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2008		1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2008	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2008	N	3				3						
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2008	N	1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2008		2								2		
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2008	N	1				1						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	3				3						
Downbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2008		1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2008	N	1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2008		1				1						
Downbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2008	N	1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2008	N	1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2008	N	6								6		
Downbound	Domestic	5	001754	4329	297.5	54.0	10	13.0	2.0	8.0	176	2008		1						1				
Downbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2008		1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2008	N	3				3						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2008		4				4						
Downbound	Domestic	5	001771	3694	297.0	54.0	6	9.0	2.0	4.0	185	2008		0						0				
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2008		1				1						
Downbound	Domestic	4	705	1648	200.0	35.0	12	12.0	1.5	10.5	186	2008		1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2008	N	1				1						
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2008		2		2								
Downbound	Domestic	5	773	1428	195.1	35.1	2	8.7	1.7	0.3	170	2008	N	3										3
Downbound	Domestic	4	922	1842	200.0	35.0	2	10.0	1.8	0.2	210	2008	N	1								1		
Downbound	Domestic	4	736	1654	200.0	35.0	2	9.0	1.5	0.5	187	2008	N	1								1		
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2008		10						10				
Downbound	Domestic	4	689	1470	195.0	35.0	9	9.0	1.7	7.3	188	2008		2				2						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2008	N	3				3						
Downbound	Domestic	4	745	1485	195.0	35.0	9	9.0	1.8	7.2	225	2008	N	2				2						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2008		2				2						
Downbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	148	2008	N	1				1						
Downbound	Domestic	4	687	1534	195.0	35.0	9	9.0	1.6	7.4	145	2008	N	1				1						
Downbound	Domestic	5	730	1409	195.0	35.0	2	8.6	2.0	0.0	190	2008		1										1
Downbound	Domestic	4	705	1500	200.0	35.0	2	9.0	1.5	0.5	120	2008	N	1								1		
Downbound	Domestic	5	759	1578	200.0	35.0	2	9.0	1.9	0.1	164	2008	N	2										2
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2008	N	3								3		
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2008	N	4								4		
Downbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2008		5								5		
Downbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2008		2										2
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2008	N	2				2						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	7				7						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2008	N	5				5						
Downbound	Domestic	5	001754	3694	298.0	54.0	6	10.0	2.0	4.0	185	2008		0						0				
Downbound	Domestic	4	000448	150	200.0	35.0	3	7.0	2.5	0.5	400	2008		6								6		
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2008	N	2				2						
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2008	N	1								1		
Downbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2008		1				1						
Downbound	Domestic	4	546	1665	200.0	35.0	8	9.0	2.0	6.0	190	2008		1				1						
Downbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2008		1				1						
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2008		3						3				
Downbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2008		1				1						
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2008	N	2				2						
Downbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2008	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2008	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2008	N	1				1						
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2008		15		15								
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2008		8				8						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.7	6.3	235	2008		1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2008		8				8						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2008		8				8						
Downbound	Domestic	4	834	1701	195.1	35.0	9	10.0	1.7	7.3	210	2008	N	1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2008	N	11				11						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2008	N	6				6						
Downbound	Domestic	4	1063	1426	200.0	35.0	8	9.0	1.6	6.4	170	2008	N	1				1						
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2008		10		10								
Downbound	Domestic	4	700	1741	195.0	35.0	2	10.0	1.6	0.4	130	2008		1								1		
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2008	N	1										1
Downbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2008		11								11		
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2008		9						9				
Downbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2008		1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	7	12.0	1.5	5.5	208	2008		2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2008		2				2						
Downbound	Domestic	4	705	1859	200.0	35.0	8	10.0	2.0	6.0	165	2008		1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2008	N	4				4						
Downbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2008		2				2						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2008	N	1				1						
Downbound	Domestic	4	909	1445	195.0	35.0	8	9.0	1.9	6.1	203	2008	N	1				1						
Downbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2008		2				2						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2008		10		10								
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2008		2		2								
Downbound	Domestic	4	705	1617	200.0	35.0	2	9.0	1.6	0.4	205	2008	N	1								1		
Downbound	Domestic	4	783	1450	195.0	35.0	2	9.0	2.0	0.0	190	2008	N	1								1		
Downbound	Domestic	4	1009	1683	200.0	35.0	2	9.0	1.2	0.8	193	2008	N	2								2		
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2008		15				15						
Downbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2008		5				5						
Downbound	Domestic	4	685	1550	195.0	35.0	8	9.0	1.5	6.5	190	2008		2				2						
Downbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2008		8				8						
Downbound	Domestic	5	766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2008		1										1
Downbound	Domestic	5	1876	3300	297.5	54.0	9	9.6	2.0	7.0	220	2008		2						2				
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2008		1				1						
Downbound	Domestic	4	764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2008		2				2						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2008		1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2008		3				3						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2008		1				1						
Downbound	Domestic	4	764	2500	200.0	35.0	9	9.0	1.6	7.4	225	2008	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.6	6.4	180	2008	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	13	13.0	1.5	11.5	208	2008		1				1						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2008		1						1				
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2008		5				5						
Downbound	Domestic	4	687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2008		1								1		
Downbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2008		6								6		
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2008		4				4						
Downbound	Domestic	4	000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2008		1				1						
Downbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2008		1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	170	2008	N	2				2						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2008		1				1						
Downbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2008	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2008		1								1		
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2008		4								4		
Downbound	Domestic	3	62	999999	85.6	27.4	7	8.0	6.5	0.5	149	2008		1		1								
Downbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2008	N	1								1		
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2008		3				3						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2008		1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2008		21						21				
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2008		12				12						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2008	N	8								8		
Downbound	Domestic	5	001754	4972	297.5	54.0	7	12.1	1.5	5.5	176	2008		0						0				
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2008	N	2				2						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2008		1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	180	2008		1				1						
Downbound	Domestic	4	471	1510	195.0	35.0	2	9.0	1.6	0.4	119	2008		1								1		
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2008	N	2										2
Downbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2008		3				3						
Downbound	Domestic	5	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2008		2						2				
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2008		5				5						
Downbound	Domestic	4	823	2295	200.0	35.0	9	12.0	1.4	7.6	227	2008		1				1						
Downbound	Domestic	5	001754	4329	297.5	54.0	7	13.0	2.0	5.0	176	2008		0						0				
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2008	N	1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	2				2						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2008		2				2						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2008		4				4						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2008	N	1				1						
Downbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2008	N	3				3						
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2008	N	2				2						
Downbound	Domestic	4	999999	1541	200.0	35.0	8	9.0	1.6	6.4	143	2008	N	1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	2	9.0	1.8	0.2	160	2008	N	1								1		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	190	2008	N	1								1		
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	2.0	8.0	220	2008		1						1				
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2008		4								4		
Downbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	2				2						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2008		1				1						
Downbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2008		1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2008	N	4				4						
Downbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2008		1				1						
Downbound	Domestic	4	687	2061	195.0	35.0	7	9.0	1.5	5.5	160	2008	N	1				1						
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2008	N	11										11
Downbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2008	N	2								2		
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2008		7				7						
Downbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2008		4				4						
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2008		5				5						
Downbound	Domestic	4	705	1650	200.0	35.0	9	12.0	1.5	7.5	195	2008		1				1						
Downbound	Domestic	4	676	1668	195.0	35.0	8	9.0	1.4	6.6	180	2008	N	1				1						
Downbound	Domestic	4	687	1534	195.0	35.0	9	9.0	1.8	7.2	170	2008		1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	165	2008	N	1				1						
Downbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2008	N	1				1						
Downbound	Domestic	4	950	1500	200.1	35.0	8	9.0	1.9	6.1	149	2008		1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2008		4				4						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2008		1				1						
Downbound	Domestic	4	700	1520	195.0	35.0	2	9.0	1.6	0.4	190	2008	N	1								1		
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2008		1								1		
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2008		8				8						
Downbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2008		2				2						
Downbound	Domestic	4	711	1732	195.0	35.0	9	10.0	1.6	7.4	192	2008		1				1						
Downbound	Domestic	4	600	1650	200.0	35.0	7	9.0	1.5	5.5	208	2008	N	1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2008	N	2				2						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2008	N	2				2						
Downbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2008	N	1				1						
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2008		3		3								
Downbound	Domestic	4	917	1650	200.1	35.1	2	10.0	1.9	0.1	180	2008	N	1								1		
Downbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2008		3				3						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2008		2				2						
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2008		6				6						
Downbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2008		5								5		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2008		1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	120	2008		2										2
Downbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2008	N	2								2		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2008	N	2								2		
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2008		3						3				
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2008		4				4						
Downbound	Domestic	5	1876	3300	297.5	54.0	9	10.0	2.0	7.0	180	2008		2						2				
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2008	N	1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	9	9.0	1.8	7.2	240	2008	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2008		3				3						
Downbound	Domestic	4	000764	1653	200.0	35.0	10	10.0	3.0	7.0	217	2008	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	12	12.0	1.6	10.4	250	2008		1				1						
Downbound	Domestic	4	950	1650	200.0	35.0	8	9.0	1.5	6.5	190	2008		1				1						
Downbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2008		1				1						
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2008		22		22								
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2008	N	2								2		
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2008		3				3						
Downbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2008	N	1				1						
Downbound	Domestic	4	802	1660	200.0	35.0	8	9.0	2.0	6.0	139	2008		1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	9	9.0	1.7	7.3	163	2008	N	2				2						
Downbound	Domestic	4	000745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2008	N	1				1						
Downbound	Domestic	4	000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2008	N	1				1						
Downbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2008	N	3								3		
Downbound	Domestic	5	1961	3500	297.5	54.0	2	8.5	2.0	0.0	100	2008		1										1
Downbound	Domestic	4	1072	1870	200.0	35.0	9	10.0	1.5	7.5	169	2008		2				2						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2008		2				2						
Downbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2008		1										1
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2008		3				3						
Downbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2008	N	4				4						
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2008		2				2						
Downbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	1				1						
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2008	N	1				1						
Downbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2008		3				3						
Downbound	Domestic	4	000784	1800	200.0	35.0	8	9.0	2.0	6.0	130	2008	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2008	N	1								1		
Downbound	Domestic	4	994	1475	195.0	35.0	2	9.0	1.6	0.4	189	2008	N	2								2		
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2008		1								1		
Downbound	Domestic	4	975	1489	195.0	35.0	2	9.0	1.7	0.3	145	2008	N	1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	6	10.0	3.0	3.0	170	2008		1				1						
Downbound	Domestic	5	945	1500	195.0	35.0	2	9.0	2.0	0.0	320	2008		2										2
Downbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2008		2				2						
Downbound	Domestic	4	000764	2300	200.0	35.0	7	9.0	1.4	5.6	165	2008		1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	7				7						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2008		3				3						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2008		1				1						
Downbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2008		1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2008		1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2008		1								1		
Downbound	Domestic	4	676	1912	195.0	35.0	1	11.0	1.8	-0.8	180	2008	N	1								1		
Downbound	Domestic	4	695	1520	195.0	35.0	2	9.0	1.6	0.4	146	2008	N	1								1		
Downbound	Domestic	4	688	1483	195.0	35.0	2	9.0	1.7	0.3	188	2008	N	1								1		
Downbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2008		1				1						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2008		11				11						
Downbound	Domestic	5	1799	4582	295.0	54.0	10	10.0	1.5	8.5	164	2008		1						1				
Downbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2008		2				2						
Downbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2008	N	1				1						
Downbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2008	N	4				4						
Downbound	Domestic	5	001754	3694	298.0	54.0	9	10.0	2.0	7.0	185	2008		0						0				
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2008		5				5						
Downbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2008	N	2				2						
Downbound	Domestic	4	950	1500	200.0	35.0	8	9.0	1.6	6.4	149	2008		1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2008		2				2						
Downbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2008		2				2						
Downbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2008	N	8				8						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2008	N	5				5						
Downbound	Domestic	4	000705	1647	200.0	35.0	7	9.0	1.5	5.5	205	2008	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2008		1				1						
Downbound	Domestic	4	706	1627	200.0	35.0	9	9.0	1.3	7.7	155	2008	N	2				2						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2008	N	2				2						
Downbound	Domestic	4	764	1658	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	2				2						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2008		1				1						
Downbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2008		1		1								
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2008		1								1		
Downbound	Domestic	3	402	999999	129.5	42.0	8	11.0	8.0	0.0	460	2008	N	5		5								
Downbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2008	N	3								3		
Downbound	Domestic	4	700	1504	195.0	35.0	2	9.0	1.6	0.4	206	2008	N	1								1		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2008		1								1		
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2008		1										1
Downbound	Domestic	4	000745	2090	195.0	35.0	2	11.0	1.8	0.2	170	2008		1								1		
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2008		2				2						
Downbound	Domestic	4	000745	2090	195.0	35.0	6	12.0	1.8	4.2	170	2008		1				1						
Downbound	Domestic	5	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2008	N	9										9
Downbound	Domestic	4	687	1571	195.0	35.0	9	9.0	1.3	7.7	145	2008	N	1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2008	N	1				1						
Downbound	Domestic	4	1009	1531	195.0	35.0	9	9.0	1.6	7.4	193	2008		1				1						
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2008		3						3				
Downbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2008		3				3						
Downbound	Domestic	4	000823	1641	200.0	35.0	8	13.0	1.6	6.4	230	2008		1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2008	N	13				13						
Downbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2008	N	8				8						
Downbound	Domestic	4	688	1495	195.0	35.0	8	9.0	1.9	6.1	169	2008		1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2008		1				1						
Downbound	Domestic	4	710	1557	195.0	35.0	10	9.2	1.6	8.4	139	2008		1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2008	N	4				4						
Downbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2008		1				1						
Downbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.5	6.5	160	2008		1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2008		1										1
Downbound	Domestic	4	862	1539	195.0	35.0	2	9.0	1.5	0.5	192	2008	N	1								1		
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2008		1								1		
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2008		1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2008		1				1						
Downbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2008	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2008		6				6						
Downbound	Domestic	4	706	1587	200.0	35.0	9	9.0	1.5	7.5	155	2008	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2008		1				1						
Downbound	Domestic	4	705	1559	200.0	35.0	6	9.0	1.5	4.5	150	2008		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	7	9.0	1.5	5.5	220	2008	N	2				2						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2008	N	1				1						
Downbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2008		1		1								
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2008	N	1								1		
Downbound	Domestic	4	888	1500	195.1	35.0	2	9.0	1.6	0.4	149	2008	N	1								1		
Downbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2008	N	1								1		
Downbound	Domestic	4	687	1501	195.0	35.0	12	10.0	1.5	10.5	186	2008		1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2008		1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2008	N	3				3						
Downbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2008		2				2						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	1072	1667	200.0	35.0	8	9.0	1.5	6.5	183	2008		1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2008	N	1								1		
Downbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2008		1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2008	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2008	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	3	10.0	1.5	1.5	191	2008		1								1		
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2008	N	1								1		
Downbound	Domestic	4	907	1733	195.0	35.0	1	10.0	1.6	-0.6	200	2008		1								1		
Downbound	Domestic	5	001754	4972	297.5	54.0	9	12.1	1.5	7.5	176	2008		1						1				
Downbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2008	N	5				5						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2008		4				4						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	160	2008	N	1				1						
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2008	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	7	9.0	1.6	5.4	225	2008	N	1				1						
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2008		20		20								
Downbound	Domestic	5	773	1300	195.0	35.0	2	8.6	2.0	0.0	166	2008	N	1										1
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2008	N	1								1		
Downbound	Domestic	4	700	1802	195.0	35.0	2	9.0	1.6	0.4	180	2008	N	1								1		
Downbound	Domestic	5	1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2008		4						4				
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2008		1				1						
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2008		4						4				
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2008		2				2						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2008		1				1						
Downbound	Domestic	5	001771	3694	297.0	54.0	9	9.0	2.0	7.0	185	2008		0						0				
Downbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2008	N	2				2						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2008		2				2						
Downbound	Domestic	4	676	1511	195.0	35.0	8	9.0	1.6	6.4	192	2008	N	2				2						
Downbound	Domestic	3	232	999999	110.0	32.0	8	8.6	7.5	0.5	350	2008		11		11								
Downbound	Domestic	4	688	1495	195.0	35.0	2	9.0	1.9	0.1	169	2008	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2008		1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2008		2				2						
Downbound	Domestic	4	688	1495	195.0	35.0	9	9.0	1.9	7.1	169	2008		1				1						
Downbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2008		1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	24				24						
Downbound	Domestic	4	888	1520	195.0	35.0	9	9.0	1.6	7.4	180	2008	N	1				1						
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2008		1				1						
Downbound	Domestic	4	823	1624	200.0	35.0	9	9.0	1.6	7.4	200	2008		1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2008	N	1				1						
Downbound	Domestic	4	690	1474	195.0	35.0	2	9.0	1.8	0.2	176	2008	N	2								2		
Downbound	Domestic	4	687	1494	195.0	35.0	2	9.0	1.7	0.3	166	2008	N	1								1		
Downbound	Domestic	4	986	1477	195.0	35.0	2	9.0	1.8	0.2	205	2008	N	1								1		
Downbound	Domestic	4	888	1520	195.0	35.0	2	9.0	1.6	0.4	180	2008	N	1								1		
Downbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2008		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2008		1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2008	N	5				5						
Downbound	Domestic	5	1961	3500	297.5	54.0	8	8.5	2.0	6.0	100	2008		2						2				
Downbound	Domestic	5	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2008	N	8										8
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2008		3				3						
Downbound	Domestic	4	676	1521	195.0	35.0	8	9.0	1.5	6.5	165	2008	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2008		1				1						
Downbound	Domestic	4	705	1662	200.0	35.0	9	9.0	1.6	7.4	208	2008	N	1				1						
Downbound	Domestic	4	764	1548	200.0	35.0	9	9.0	1.7	7.3	212	2008		1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.1	7.9	170	2008		1				1						
Downbound	Domestic	4	1013	1508	195.0	35.0	8	8.7	1.7	6.3	211	2008	N	1				1						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	168	2008		1				1						
Downbound	Domestic	4	764	1557	200.0	35.0	2	9.0	1.5	0.5	135	2008	N	3								3		
Downbound	Domestic	4	971	1557	200.0	35.0	3	9.0	1.7	1.3	193	2008	N	1								1		
Downbound	Domestic	4	888	1500	195.1	35.0	8	9.0	1.6	6.4	149	2008		1				1						
Downbound	Domestic	4	823	2280	200.0	35.0	9	12.0	1.4	7.6	223	2008		1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2008		9				9						
Downbound	Domestic	4	687	2000	195.0	35.0	8	9.0	1.7	6.3	160	2008	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.6	7.4	225	2008	N	2				2						
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2008	N	5				5						
Downbound	Domestic	4	000823	1534	200.0	35.0	10	9.0	1.7	8.3	235	2008	N	1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2008	N	1				1						
Downbound	Domestic	4	681	1500	195.0	35.0	8	9.0	1.6	6.4	190	2008		1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	5	9.0	1.4	3.6	132	2008		0				0						
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2008		1								1		
Downbound	Domestic	4	689	1470	195.0	35.0	8	9.0	1.7	6.3	188	2008		1				1						
Downbound	Domestic	4	000705	3098	200.0	35.0	7	12.0	1.6	5.4	147	2008		1				1						
Downbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	145	2008	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2008	N	3				3						
Downbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2008	N	4				4						
Downbound	Domestic	4	764	1619	200.0	35.0	8	9.0	1.3	6.7	165	2008	N	1				1						
Downbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2008	N	2				2						
Downbound	Domestic	4	745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2008	N	2				2						
Downbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2008		1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2008		1				1						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.6	7.4	190	2008	N	1				1						
Downbound	Domestic	4	823	2750	200.0	35.0	12	14.0	1.6	10.4	250	2008		1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2008		1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2008	N	5				5						
Downbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2008		1				1						
Downbound	Domestic	4	771	1660	200.0	35.0	9	9.0	1.4	7.6	218	2008		1				1						
Downbound	Domestic	3	58	85	46.7	28.0	10	9.3	9.3	0.7	260	2008		3		3								
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2008	N	3								3		
Downbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2008		2								2		
Downbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2008		1				1						
Downbound	Domestic	5	855	1400	195.0	35.0	2	9.0	2.0	0.0	170	2008		1										1
Downbound	Domestic	5	2380	2500	300.0	50.0	8	9.0	2.5	5.5	220	2008		1						1				
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2008	N	6				6						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2008	N	1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	2.0	0.0	180	2008	N	2								2		
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2008		39		39								
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2008	N	2								2		
Downbound	Domestic	4	917	1587	200.1	35.1	9	9.0	1.5	7.5	161	2008		1				1						
Downbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2008		4						4				
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2008		1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	4				4						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2008	N	4				4						
Downbound	Domestic	4	706	1660	200.0	35.0	8	9.0	1.5	6.5	196	2008	N	1				1						
Downbound	Domestic	4	000687	1504	195.0	35.0	8	9.0	1.6	6.4	205	2008	N	1				1						
Downbound	Domestic	4	000705	1645	200.0	35.0	7	9.0	1.5	5.5	205	2008	N	2				2						
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2008		7		7								
Downbound	Domestic	5	805	1433	195.0	35.0	6	9.0	1.1	4.9	166	2008	N	1						1				
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2008		7				7						
Downbound	Domestic	4	966	1658	200.0	35.0	9	9.0	1.5	7.5	200	2008		1				1						
Downbound	Domestic	4	957	1680	200.0	35.0	8	9.0	1.5	6.5	145	2008		1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2008	N	1				1						
Downbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2008		1				1						
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2008		9		9								
Downbound	Domestic	4	823	2279	200.0	35.0	2	12.0	1.7	0.3	223	2008		1								1		
Downbound	Domestic	4	1020	1544	200.0	35.0	2	9.0	1.5	0.5	135	2008	N	3								3		
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2008	N	2										2
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2008	N	2								2		
Downbound	Domestic	4	685	1500	195.0	35.0	2	9.0	1.6	0.4	190	2008	N	2								2		

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
										An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.				OK			Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2008		6						6				
Downbound	Domestic	4	705	9100	200.0	35.0	8	10.0	1.4	6.6	208	2008		1				1						
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2008	N	1								1		
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2008		12								12		
Downbound	Domestic	4	745	1534	195.0	35.0	8	9.0	1.5	6.5	210	2008	N	1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2008		3				3						
Downbound	Domestic	4	676	1492	195.0	35.0	8	9.0	1.8	6.2	162	2008	N	1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	216	2008		1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	149	2008		1				1						
Downbound	Domestic	4	783	1902	195.0	35.0	1	11.0	1.9	-0.9	199	2008	N	4								4		
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2008		1		1								
Downbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2008		5		5								
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2008		6								6		
Downbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2008	N	5										5
Downbound	Domestic	5	822	1400	195.0	35.0	2	9.0	1.3	0.7	178	2008	N	2										2
Downbound	Domestic	3	634	999999	145.0	48.0	8	9.0	8.0	0.0	400	2008	N	1		1								
Downbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2008		10						10				
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2008		5				5						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2008		5						5				
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2008	N	6				6						
Downbound	Domestic	4	705	1650	200.0	35.0	8	12.0	1.5	6.5	195	2008		1				1						
Downbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2008		1				1						
Downbound	Domestic	4	1024	1426	195.0	35.0	8	9.0	2.0	6.0	170	2008	N	1				1						
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2008		29		29								
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2008	N	1								1		
Downbound	Domestic	5	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2008	N	1						1				
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2008		8						8				
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2008		4				4						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2008		5				5						
Downbound	Domestic	4	799	1887	200.0	35.0	9	10.0	1.4	7.6	149	2008		1				1						
Downbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2008	N	1				1						
Downbound	Domestic	4	888	1529	195.0	35.0	2	9.0	1.5	0.5	160	2008		11								11		
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2008		9				9						
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2008		4						4				
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2008		1				1						
Downbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2008		1				1						
Downbound	Domestic	4	676	1725	195.0	35.0	9	10.0	1.9	7.1	200	2008		1				1						
Downbound	Domestic	4	848	1525	195.0	35.0	8	9.0	1.6	6.4	160	2008		1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2008	N	1				1						
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2008	N	2								2		
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2008		4				4						
Downbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2008	N	2				2						
Downbound	Domestic	4	000705	1699	200.0	35.0	7	9.0	1.2	5.8	145	2008	N	1				1						
Downbound	Domestic	4	700	1487	195.0	35.0	8	9.0	1.7	6.3	180	2008	N	1				1						
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	2.0	0.0	135	2008	N	2								2		
Downbound	Domestic	4	745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2008	N	1								1		
Downbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2008		8				8						
Downbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2008	N	3				3						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2008	N	9								9		
Downbound	Domestic	4	687	1500	195.0	35.0	8	12.0	1.3	6.7	149	2008		1				1						
Downbound	Domestic	4	000764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2008	N	1				1						
Downbound	Domestic	5	894	1591	200.0	35.0	2	9.0	1.9	0.1	142	2008	N	2										2
Downbound	Domestic	4	888	1500	195.0	35.0	2	9.0	1.7	0.3	149	2008	N	1								1		
Downbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.6	0.4	250	2008	N	3								3		
Downbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2008		7								7		
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	209	2008	N	1				1						
Downbound	Domestic	4	750	1500	200.0	35.0	8	9.0	1.4	6.6	149	2008		1				1						
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	149	2008		2				2						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2008	N	5				5						
Downbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.4	7.6	130	2008		1				1						
Downbound	Domestic	4	823	1842	200.0	35.0	8	10.0	1.8	6.2	210	2008		1				1						
Downbound	Domestic	4	688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2008	N	2				2						
Downbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2008	N	2										2
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2008		6								6		
Downbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2008	N	1								1		
Downbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2008		3				3						
Downbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2008		3										3
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2008	N	4				4						
Downbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2008	N	3				3						
Downbound	Domestic	4	687	1510	195.0	35.0	9	9.0	1.6	7.4	119	2008		3				3						
Downbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2008		1				1						
Downbound	Domestic	4	676	1500	195.0	35.0	2	9.0	2.0	0.0	162	2008		7								7		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2008		5								5		
Downbound	Domestic	4	696	1644	200.0	35.0	2	9.0	1.6	0.4	180	2008		1								1		
Downbound	Domestic	4	764	1865	200.0	35.0	2	12.0	1.5	0.5	208	2008	N	2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2008	N	1								1		
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2008		6						6				
Downbound	Domestic	4	848	1524	195.0	35.0	8	9.0	1.6	6.4	185	2008		3				3						
Downbound	Domestic	5	001619	3100	297.5	54.0	9	10.0	2.0	7.0	220	2008		1						1				
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2008		1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2008		1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2008		1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2008		1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2008		1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	148	2008		1				1						
Downbound	Domestic	4	985	1520	195.0	35.0	9	9.0	1.6	7.4	160	2008		2				2						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2008	N	2				2						
Downbound	Domestic	4	823	2739	200.0	35.0	12	14.0	1.6	10.4	250	2008		1				1						
Downbound	Domestic	4	345	1450	195.0	35.0	2	9.0	1.5	0.5	105	2008	N	1								1		
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2008	N	1								1		
Downbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2008		3				3						
Downbound	Domestic	5	001754	3694	298.0	54.0	8	10.0	2.0	6.0	185	2008		0						0				
Downbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2008		1				1						
Downbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2008		1				1						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2008		3				3						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2008		1				1						
Downbound	Domestic	4	730	1664	200.0	35.0	9	9.0	1.4	7.6	148	2008	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	160	2008		1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2008	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2008	N	2								2		
Downbound	Domestic	5	1943	3500	295.0	54.0	9	10.0	2.0	7.0	220	2008		3						3				
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2008		7				7						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2008		5				5						
Downbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2008		1				1						
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2008	N	4				4						
Downbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2008		1				1						
Downbound	Domestic	4	705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2008		1				1						
Downbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2008		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2008	N	1				1						
Downbound	Domestic	4	735	1500	200.1	35.0	8	9.0	1.6	6.4	149	2008		1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2008		1				1						
Downbound	Domestic	4	888	1475	195.0	35.0	2	9.0	1.6	0.4	206	2008		25								25		
Downbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.5	6.5	192	2008		1				1						
Downbound	Domestic	5	1521	3600	294.5	54.0	9	10.0	2.0	7.0	170	2008		8						8				
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2008	N	4				4						
Downbound	Domestic	4	001102	1664	200.0	35.0	9	9.0	1.4	7.6	146	2008	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
														OK			Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		4 705	1554	200.0	35.0	6	9.0	1.5	4.5	150	2008		4				4						
Downbound	Domestic		4 985	1520	195.0	35.0	8	9.0	1.6	6.4	160	2008		1				1						
Downbound	Domestic		4 000705	1699	200.0	35.0	9	9.0	1.2	7.8	145	2008	N	1				1						
Downbound	Domestic		4 000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2008	N	2				2						
Downbound	Domestic		4 1052	1600	200.0	35.0	9	9.0	1.6	7.4	160	2008	N	1				1						
Downbound	Domestic		3 199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2008		35		35								
Downbound	Domestic		4 764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2008	N	1								1		
Downbound	Domestic		4 764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2008		1								1		
Downbound	Domestic		4 700	1741	195.0	35.0	2	10.0	1.4	0.6	130	2008		1								1		
Downbound	Domestic		4 685	1550	195.0	35.0	2	9.0	1.5	0.5	190	2008	N	1								1		
Downbound	Domestic		4 000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2008	N	2				2						
Downbound	Domestic		4 687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2008		4				4						
Downbound	Domestic		5 1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2008		11						11				
Downbound	Domestic		4 700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2008		3				3						
Downbound	Domestic		4 000764	2151	200.0	35.0	8	13.0	1.8	6.2	190	2008		3				3						
Downbound	Domestic		5 001771	3694	297.0	54.0	8	9.0	2.0	6.0	185	2008		0						0				
Downbound	Domestic		4 687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2008	N	2				2						
Downbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2008		1				1						
Downbound	Domestic		4 745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2008	N	1				1						
Downbound	Domestic		4 000745	1510	195.0	35.0	9	9.0	1.6	7.4	155	2008	N	1				1						
Downbound	Domestic		4 000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2008		1				1						
Downbound	Domestic		4 764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2008	N	1				1						
Downbound	Domestic		3 000433	637	136.0	40.0	8	10.3	8.6	-0.6	420	2008		4		4								
Downbound	Domestic		4 1051	1586	200.1	35.1	2	8.7	1.5	0.5	171	2008		1								1		
Downbound	Domestic		5 805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2008	N	3										3
Downbound	Domestic		4 705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2008		1								1		
Downbound	Domestic		4 1072	1664	200.0	35.0	2	9.0	1.4	0.6	208	2008		1								1		
Downbound	Domestic		4 676	1376	195.0	35.0	1	8.5	1.0	0.0	160	2008		1								1		
Downbound	Domestic		4 694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2008		3				3						
Downbound	Domestic		5 1876	3400	297.5	54.0	9	10.0	2.0	7.0	170	2008		3						3				
Downbound	Domestic		4 745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2008		2								2		
Downbound	Domestic		4 000705	1612	200.0	35.0	8	9.0	1.6	6.4	205	2008	N	1				1						
Downbound	Domestic		5 001754	4972	297.5	54.0	5	12.1	1.5	3.5	176	2008		1						1				
Downbound	Domestic		4 000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2008	N	1				1						
Downbound	Domestic		4 681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2008		1				1						
Downbound	Domestic		4 687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2008	N	1				1						
Downbound	Domestic		4 910	1449	195.0	35.0	2	9.0	1.9	0.1	203	2008	N	1								1		
Downbound	Domestic		5 773	1489	195.0	35.0	2	9.0	1.3	0.7	160	2008		1										1
Downbound	Domestic		4 888	1500	195.0	35.0	2	9.0	1.6	0.4	149	2008	N	1								1		
Upbound	Domestic		4 823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2009		1			1							
Upbound	Domestic		4 823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2009	N	2			2							
Upbound	Domestic		4 957	1854	200.0	35.0	1	10.0	1.6	-0.6	166	2009	N	1							1			
Upbound	Domestic		4 764	1668	200.0	35.0	7	9.0	1.4	5.6	147	2009	N	1			1							
Upbound	Domestic		4 735	1500	200.0	35.0	8	9.0	1.6	6.4	149	2009	N	1			1							
Upbound	Domestic		4 745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2009		1			1							
Upbound	Domestic		4 735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2009	N	3			3							
Upbound	Domestic		5 001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2009		4									4	
Upbound	Domestic		3 000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2009		2		2								
Upbound	Domestic		4 862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2009	N	1							1			
Upbound	Domestic		4 856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2009	N	2							2			
Upbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2009		5			5							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2009		1			1							
Upbound	Domestic		4 000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2009	N	4			4							
Upbound	Domestic		5 000891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2009	N	2					2					
Upbound	Domestic		4 771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2009	N	1			1							
Upbound	Domestic		4 705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2009	N	2			2							
Upbound	Domestic		4 975	1480	195.0	35.0	8	9.0	1.6	6.4	146	2009	N	2			2							
Upbound	Domestic		4 000745	1497	195.0	35.0	7	9.0	1.6	5.4	139	2009	N	1			1							
Upbound	Domestic		4 000823	2300	200.0	35.0	2	13.0	1.6	0.4	165	2009		1							1			
Upbound	Domestic		3 110	999999	56.0	22.0	7	7.0	6.0	1.0	260	2009		1		1								
Upbound	Domestic		3 000357	999999	106.0	32.0	2	11.0	9.0	-7.0	450	2009	N	1		1								
Upbound	Domestic		4 687	1629	195.0	35.0	2	9.0	1.4	0.6	160	2009		1							1			
Upbound	Domestic		4 933	1674	200.0	35.0	2	9.0	2.0	0.0	177	2009	N	1							1			
Upbound	Domestic		5 1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2009		1					1					
Upbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2009		1			1							
Upbound	Domestic		4 000705	1616	200.0	35.0	7	9.0	1.6	5.4	205	2009	N	1			1							
Upbound	Domestic		4 823	2733	200.0	35.0	8	14.0	1.6	6.4	211	2009	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2009	N	2							2			
Upbound	Domestic		4 834	1701	195.0	35.0	6	10.0	1.7	4.3	210	2009	N	1			1							
Upbound	Domestic		4 802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2009	N	1			1							
Upbound	Domestic		4 823	1643	200.0	35.0	11	11.0	1.5	9.5	9999	2009	N	1			1							
Upbound	Domestic		4 823	2469	200.0	35.0	14	14.0	1.6	12.4	250	2009	N	1			1							
Upbound	Domestic		4 543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2009	N	1			1							
Upbound	Domestic		3 103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2009		22		22								
Upbound	Domestic		3 000323	999999	140.0	42.0	6	9.5	5.8	0.2	428	2009	N	3		3								
Upbound	Domestic		5 2700	2500	281.0	50.0	2	9.0	2.5	-0.5	230	2009		1									1	
Upbound	Domestic		4 000764	2468	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	1							1			
Upbound	Domestic		4 888	1520	195.0	35.0	2	9.0	1.6	0.4	180	2009	N	1							1			
Upbound	Domestic		4 986	1477	195.0	35.0	2	9.0	1.8	0.2	205	2009	N	1							1			
Upbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2009		4			4							
Upbound	Domestic		5 001597	3844	297.0	54.0	9	10.0	0.6	8.4	280	2009		1					1					
Upbound	Domestic		4 745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2009	N	6			6							
Upbound	Domestic		5 001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2009		5					5					
Upbound	Domestic		4 862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2009	N	3			3							
Upbound	Domestic		4 772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2009	N	2			2							
Upbound	Domestic		4 933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2009	N	4			4							
Upbound	Domestic		4 705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2009	N	1			1							
Upbound	Domestic		4 764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2009	N	1			1							
Upbound	Domestic		4 764	1666	200.0	35.0	9	9.0	1.5	7.5	170	2009	N	1			1							
Upbound	Domestic		5 1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2009		13									13	
Upbound	Domestic		3 439	999999	145.2	28.0	7	7.5	7.0	0.0	388	2009		1		1								
Upbound	Domestic		3 533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2009		9		9								
Upbound	Domestic		4 687	1633	195.0	35.0	2	9.0	1.4	0.6	133	2009		1							1			
Upbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2009	N	1			1							
Upbound	Domestic		4 764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	3			3							
Upbound	Domestic		4 745	1496	195.0	35.0	8	9.0	1.6	6.4	166	2009	N	1			1							
Upbound	Domestic		5 788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2009	N	1					1					
Upbound	Domestic		4 705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2009	N	1			1							
Upbound	Domestic		4 000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2009	N	2			2							
Upbound	Domestic		4 764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2009	N	1			1							
Upbound	Domestic		4 000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2009		1			1							
Upbound	Domestic		4 909	1445	195.0	35.0	8	9.0	1.9	6.1	203	2009	N	1			1							
Upbound	Domestic		4 706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2009	N	1			1							
Upbound	Domestic		4 701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2009	N	1			1							
Upbound	Domestic		3 000382	999999	114.7	34.0	11	9.0	8.0	3.0	420	2009		1		1								
Upbound	Domestic		4 933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2009	N	3							3			
Upbound	Domestic		4 000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2009		2							2			
Upbound	Domestic		4 711	1732	195.0	35.0	1	10.0	1.6	-0.6	192	2009	N	1							1			
Upbound	Domestic		4 705	1600	200.0	35.0	2	9.0	1.6	0.4	180	2009	N	1							1			
Upbound	Domestic		4 676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2009	N	1			1							
Upbound	Domestic		4 823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2009		2			2							
Upbound	Domestic		4 994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2009	N	3			3							
Upbound	Domestic		4 1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2009	N	2			2							
Upbound	Domestic		4 727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2009	N	3			3							
Upbound	Domestic		4 705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2009	N	3			3							
Upbound	Domestic		4 000705	1618	200.0	35.0	9	9.0	1.6	7.4	210	2009	N	1			1							

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
										An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.				OK			Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
			REG	CAP	OVER	OVER	ACTUAL	LOAD	LIGHT	DRAFT DUE	H F		CONTAINER		Self-									
DIRECTION	TTYPE	VTYPE	TONS	TONS	LENGTH	BREADTH	DRAFT	DRAFT	DRAFT	TO CARGO	POINT	YEAR	IZED	TRIPS	Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2009	N	1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2009	N	1			1							
Upbound	Domestic	4	000329	1500	140.0	40.0	2	3.0	2.0	0.0	70	2009		1							1			
Upbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2009	N	1			1							
Upbound	Domestic	5	001597	3844	300.0	54.0	1	10.0	0.6	0.4	280	2009		1									1	
Upbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2009	N	1							1			
Upbound	Domestic	3	204	999999	156.0	38.0	6	6.5	6.5	-0.5	363	2009		1		1								
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2009		3			3							
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2009	N	16			16							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2009	N	6			6							
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2009	N	12			12							
Upbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2009	N	1									1	
Upbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	168	2009	N	2							2			
Upbound	Domestic	4	823	2579	200.0	35.0	2	14.0	1.7	0.3	231	2009	N	1							1			
Upbound	Domestic	3	105	131	70.0	28.0	7	8.0	6.5	0.5	390	2009		2		2								
Upbound	Domestic	4	000764	2474	200.0	35.0	8	12.9	1.6	6.4	205	2009		1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2009	N	4			4							
Upbound	Domestic	4	687	1510	195.0	35.0	8	9.0	1.6	6.4	119	2009		1			1							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2009	N	12			12							
Upbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2009	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2009	N	2							2			
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2009	N	1			1							
Upbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2009	N	1									1	
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2009	N	5							5			
Upbound	Domestic	4	823	1652	200.0	35.0	2	9.0	1.4	0.6	235	2009	N	1							1			
Upbound	Domestic	4	823	2304	200.0	35.0	4	10.0	1.7	2.3	190	2009		1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2009		3			3							
Upbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2009	N	1							1			
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2009		8			8							
Upbound	Domestic	4	705	1554	200.0	35.0	7	9.0	1.5	5.5	150	2009	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2009	N	8			8							
Upbound	Domestic	4	710	1557	195.0	35.0	9	9.2	1.6	7.4	139	2009		1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2009		1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2009		3			3							
Upbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2009	N	1			1							
Upbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2009	N	11			11							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2009		9		9								
Upbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2009	N	2							2			
Upbound	Domestic	3	303	999999	102.5	34.0	7	9.0	7.5	-0.5	440	2009		2		2								
Upbound	Domestic	4	909	1485	195.0	35.0	2	9.0	1.7	0.3	203	2009	N	1							1			
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2009		2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2009	N	5			5							
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.6	6.4	149	2009	N	1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	7	10.0	1.7	5.3	210	2009	N	1			1							
Upbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2009	N	2									2	
Upbound	Domestic	4	823	1642	200.0	35.0	2	9.0	1.6	0.4	260	2009	N	1							1			
Upbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2009	N	2							2			
Upbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2009		2							2			
Upbound	Domestic	4	687	1586	195.0	35.0	2	10.0	2.0	0.0	148	2009	N	1							1			
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2009	N	2			2							
Upbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2009	N	3							3			
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2009		6			6							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2009		1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2009	N	8			8							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2009		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2009	N	1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2009	N	1			1							
Upbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2009		1			1							
Upbound	Domestic	4	695	1520	195.0	35.0	8	9.0	1.6	6.4	146	2009	N	1			1							
Upbound	Domestic	4	676	1491	195.0	35.0	2	9.0	1.6	0.4	193	2009	N	2							2			
Upbound	Domestic	3	999999	999999	72.7	24.1	2	6.0	6.0	-4.0	336	2009	N	1		1								
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2009	N	1							1			
Upbound	Domestic	3	634	999999	145.0	48.0	8	9.0	8.0	0.0	440	2009	N	1		1								
Upbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2009	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2009	N	2			2							
Upbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2009	N	1			1							
Upbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2009	N	2			2							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2009		1			1							
Upbound	Domestic	4	1039	1623	200.0	35.0	8	9.0	1.7	6.3	146	2009	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2009		3			3							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2009	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2009	N	4			4							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2009	N	2			2							
Upbound	Domestic	4	698	1659	200.0	35.0	8	9.0	1.3	6.7	185	2009	N	1			1							
Upbound	Domestic	5	747	1750	200.0	35.0	8	9.3	2.0	6.0	190	2009	N	1					1					
Upbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2009	N	1							1			
Upbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2009	N	1							1			
Upbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2009		2							2			
Upbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2009	N	4							4			
Upbound	Domestic	4	1065	1676	200.0	35.0	2	9.0	1.3	0.7	145	2009	N	1							1			
Upbound	Domestic	4	000764	2090	200.0	35.0	10	12.0	1.8	8.2	170	2009		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	2							2			
Upbound	Domestic	4	687	1501	195.0	35.0	12	12.0	1.5	10.5	186	2009	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2009	N	5			5							
Upbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2009		2			2							
Upbound	Domestic	4	000687	1534	200.0	35.0	8	9.0	1.6	6.4	160	2009	N	1			1							
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2009		2		2								
Upbound	Domestic	5	002424	2213	295.0	50.0	2	9.0	2.5	-0.5	280	2009	N	1									1	
Upbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2009	N	2							2			
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2009		2			2							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2009		1			1							
Upbound	Domestic	4	711	1732	195.0	35.0	6	10.0	1.6	4.4	192	2009	N	1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2009	N	2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2009		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2009	N	2			2							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2009	N	12			12							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2009	N	2			2							
Upbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.1	6.9	194	2009	N	1			1							
Upbound	Domestic	5	001619	3500	297.6	54.0	2	9.0	1.0	1.0	220	2009		1									1	
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2009		29		29								
Upbound	Domestic	3	230	999999	148.0	30.0	8	8.8	7.3	0.7	360	2009		2		2								
Upbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2009		2		2								
Upbound	Domestic	4	933	1524	200.0	35.0	2	9.0	1.8	0.2	193	2009	N	1							1			
Upbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2009	N	3			3							
Upbound	Domestic	4	933	1548	200.0	35.0	9	9.0	1.6	7.4	193	2009	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2009		5			5							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2009		2			2							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	1			1							
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2009	N	4							4			
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2009		1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2009	N	1			1							
Upbound	Domestic	4	687	1476	195.0	35.0	9	9.0	1.7	7.3	160	2009	N	1			1							
Upbound	Domestic	4	696	1500	195.1	35.0	8	9.0	1.6	6.4	149	2009	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	10	10.0	1.5	8.5	191	2009	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	2	9.0	1.4	0.6	165	2009		3							3			
Upbound	Domestic	4	688	1519	195.0	35.0	2	9.0	1.6	0.4	160	2009	N	2							2			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2009	N	2			2							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2009	N	1			1							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	2			2							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2009	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	7	9.0	1.6	5.4	215	2009	N	1			1							
Upbound	Domestic	4	000764	1562	200.0	35.0	12	9.0	3.0	9.0	9999	2009	N	1			1							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2009	N	8			8							
Upbound	Domestic	4	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2009	N	1							1			
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2009	N	2			2							
Upbound	Domestic	4	182	500	110.0	32.0	2	6.0	1.5	0.5	80	2009	N	1							1			
Upbound	Domestic	4	862	1725	195.0	35.0	8	10.0	2.0	6.0	192	2009	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2009	N	1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2009		1			1							
Upbound	Domestic	4	705	9100	200.0	35.0	9	10.0	1.4	7.6	208	2009	N	1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2009	N	1							1			
Upbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2009	N	1							1			
Upbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2009	N	2			2							
Upbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2009	N	1			1							
Upbound	Domestic	4	689	1470	195.0	35.0	8	9.0	1.7	6.3	188	2009		1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2009		2			2							
Upbound	Domestic	5	1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2009		12									12	
Upbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	165	2009		1							1			
Upbound	Domestic	3	232	999999	110.0	32.0	8	8.6	7.5	0.5	350	2009		11		11								
Upbound	Domestic	5	001619	3550	297.5	54.0	2	9.0	2.0	0.0	174	2009		1									1	
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2009	N	1							1			
Upbound	Domestic	4	706	1659	200.0	35.0	2	9.0	1.5	0.5	160	2009	N	3							3			
Upbound	Domestic	4	872	2000	200.0	35.0	2	9.0	1.4	0.6	160	2009	N	1							1			
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2009		3			3							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2009		1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2009		1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2009	N	5							5			
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2009	N	8			8							
Upbound	Domestic	4	000745	1497	195.0	35.0	10	9.0	1.6	8.4	139	2009	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2009	N	2			2							
Upbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	145	2009	N	3			3							
Upbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2009	N	2			2							
Upbound	Domestic	5	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2009	N	1					1					
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	2.0	6.0	180	2009	N	3			3							
Upbound	Domestic	4	687	1514	195.0	35.0	1	9.0	1.5	-0.5	206	2009	N	1							1			
Upbound	Domestic	4	685	1500	195.0	35.0	8	9.0	1.6	6.4	190	2009	N	1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2009		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2009	N	1							1			
Upbound	Domestic	4	706	1563	200.0	35.0	2	9.0	1.7	0.3	205	2009	N	1							1			
Upbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2009		1							1			
Upbound	Domestic	4	823	1535	200.0	35.0	2	9.0	1.7	0.3	260	2009	N	1							1			
Upbound	Domestic	4	952	1716	200.0	35.0	2	9.0	1.1	0.9	145	2009	N	1							1			
Upbound	Domestic	5	835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2009	N	2					2					
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2009		2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2009	N	1			1							
Upbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2009		1			1							
Upbound	Domestic	4	764	1900	200.0	35.0	6	10.0	1.5	4.5	210	2009	N	1			1							
Upbound	Domestic	4	889	1424	195.1	35.2	7	9.0	1.1	5.9	194	2009	N	1			1							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2009	N	2			2							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2009	N	1			1							
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2009		13		13								
Upbound	Domestic	4	764	1521	200.0	35.0	2	9.0	1.9	0.1	225	2009	N	1							1			
Upbound	Domestic	5	002099	4467	356.0	54.0	8	10.0	0.6	7.4	280	2009		1					1					
Upbound	Domestic	4	000764	2468	200.0	35.0	6	13.0	1.5	4.5	208	2009		1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2009	N	1			1							
Upbound	Domestic	4	687	1505	195.0	35.0	7	9.0	1.8	5.2	200	2009	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2009	N	2							2			
Upbound	Domestic	4	966	1654	200.0	35.0	8	9.0	1.4	6.6	193	2009	N	1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2009	N	1			1							
Upbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2009	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2009	N	3			3							
Upbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2009	N	1			1							
Upbound	Domestic	5	001754	3694	298.0	54.0	2	10.0	2.0	0.0	185	2009	N	1									1	
Upbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	186	2009	N	2							2			
Upbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2009	N	5							5			
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.6	0.4	190	2009	N	1							1			
Upbound	Domestic	4	705	1572	200.0	35.0	2	9.0	1.5	0.5	223	2009		1							1			
Upbound	Domestic	5	001633	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2009	N	1									1	
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.5	0.5	190	2009	N	1							1			
Upbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2009		2			2							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2009		3			3							
Upbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2009	N	2			2							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2009	N	1			1							
Upbound	Domestic	4	687	1491	195.0	35.0	5	9.0	1.8	3.2	240	2009	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2009		1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2009	N	5			5							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2009	N	1			1							
Upbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2009	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2009		1			1							
Upbound	Domestic	4	000764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2009		1							1			
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2009		1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2009		3			3							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2009	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2009	N	2			2							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2009	N	1			1							
Upbound	Domestic	4	000944	1455	200.0	35.0	8	10.0	1.6	6.4	180	2009	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2009		2			2							
Upbound	Domestic	5	855	1490	195.0	35.0	8	9.0	2.0	6.0	170	2009		1					1					
Upbound	Domestic	5	000745	2235	195.0	13.0	8	15.0	3.0	5.0	9999	2009	N	1					1					
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2009	N	1			1							
Upbound	Domestic	5	835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2009	N	2					2					
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2009		26		26								
Upbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2009		1					1					
Upbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2009		1					1					
Upbound	Domestic	4	929	1633	200.0	35.0	2	9.0	1.6	0.4	180	2009	N	1							1			
Upbound	Domestic	5	805	1433	195.0	35.0	8	9.0	1.1	6.9	166	2009	N	2					2					
Upbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2009	N	1			1							
Upbound	Domestic	4	823	2345	200.0	35.0	8	12.0	1.7	6.3	223	2009		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2009		1			1							
Upbound	Domestic	4	696	1644	200.0	35.0	2	9.0	1.6	0.4	180	2009	N	2							2			
Upbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2009	N	1							1			
Upbound	Domestic	4	764	2098	200.0	35.0	2	11.0	1.5	0.5	218	2009		1							1			
Upbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2009		3			3							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2009		1			1							
Upbound	Domestic	4	687	1722	195.0	35.0	1	10.0	1.6	-0.6	205	2009	N	2							2			
Upbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.6	6.4	206	2009		20			20							
Upbound	Domestic	5	001754	4444	297.5	54.0	7	11.0	2.0	5.0	200	2009	N	1					1					
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2009	N	1			1							
Upbound	Domestic	4	745	1458	195.0	35.0	8	9.0	1.9	6.1	205	2009	N	1			1							
Upbound	Domestic	4	745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2009	N	4			4							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2009		1					1					
Upbound	Domestic	4	696	1644	200.0	35.0	9	9.0	1.6	7.4	180	2009	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	1013	1508	195.0	35.0	11	11.0	1.7	9.3	211	2009	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2009		1			1							
Upbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2009	N	5			5							
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2009	N	11			11							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2009	N	17			17							
Upbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2009	N	2			2							
Upbound	Domestic	4	736	1654	200.0	35.0	8	9.0	1.5	6.5	185	2009	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2009	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2009	N	2							2			
Upbound	Domestic	4	848	1524	195.0	35.0	8	9.0	1.6	6.4	185	2009	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2009	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	170	2009	N	1			1							
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2009		12									12	
Upbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2009	N	5							5			
Upbound	Domestic	4	676	1501	195.0	35.0	2	9.0	1.6	0.4	162	2009	N	1							1			
Upbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.5	0.5	217	2009	N	1							1			
Upbound	Domestic	4	687	2061	195.0	35.0	2	9.0	1.5	0.5	160	2009	N	1							1			
Upbound	Domestic	5	837	1470	195.0	35.0	2	9.0	1.9	0.1	170	2009		1									1	
Upbound	Domestic	4	764	1648	200.0	35.0	13	12.0	1.5	11.5	186	2009	N	2			2							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	2			2							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2009	N	2			2							
Upbound	Domestic	5	855	1401	195.0	35.0	8	9.0	2.0	6.0	140	2009		3					3					
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	214	2009		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2009	N	4			4							
Upbound	Domestic	4	783	1937	195.0	35.0	9	11.0	1.8	7.2	210	2009		1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2009	N	3			3							
Upbound	Domestic	4	706	1575	200.0	35.0	6	9.0	1.6	4.4	205	2009	N	1			1							
Upbound	Domestic	4	000764	2528	200.0	35.0	9	13.0	1.5	7.5	186	2009		1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2009	N	1			1							
Upbound	Domestic	4	862	1539	195.0	35.0	2	9.0	1.5	0.5	192	2009	N	2							2			
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2009		2			2							
Upbound	Domestic	4	823	2077	200.0	35.0	11	10.0	1.5	9.5	215	2009	N	1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	5			5							
Upbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2009	N	2			2							
Upbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2009	N	1			1							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2009	N	1			1							
Upbound	Domestic	4	685	1728	195.0	35.0	8	10.0	1.6	6.4	176	2009	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2009		1			1							
Upbound	Domestic	5	1803	2500	295.0	52.0	2	9.0	2.5	-0.5	340	2009		5									5	
Upbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2009	N	1							1			
Upbound	Domestic	4	823	2078	200.0	35.0	2	11.0	1.6	0.4	250	2009		1							1			
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	165	2009	N	1							1			
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2009		2			2							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2009		3			3							
Upbound	Domestic	4	1386	2995	200.0	54.0	9	12.3	3.1	5.9	114	2009	N	1			1							
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2009		19			19							
Upbound	Domestic	4	933	1527	195.0	35.0	8	9.0	1.5	6.5	199	2009	N	1			1							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.5	6.5	160	2009	N	1			1							
Upbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2009	N	2			2							
Upbound	Domestic	4	546	1450	200.0	35.0	8	9.0	2.0	6.0	190	2009	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2009	N	1			1							
Upbound	Domestic	4	764	1855	200.0	35.0	9	10.0	1.5	7.5	165	2009		1			1							
Upbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2009		1		1								
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2009		1			1							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2009	N	1			1							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2009		3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2009		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	6	13.0	1.5	4.5	208	2009	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	10.0	3.0	6.0	170	2009		1			1							
Upbound	Domestic	5	723	1481	195.0	35.0	9	9.2	2.5	6.5	186	2009	N	2					2					
Upbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	194	2009		1							1			
Upbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2009	N	7		7								
Upbound	Domestic	4	000706	1626	200.0	35.0	7	9.0	1.3	5.7	145	2009	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2009	N	1			1							
Upbound	Domestic	4	888	1500	195.1	35.0	8	9.0	1.6	6.4	149	2009	N	1			1							
Upbound	Domestic	5	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2009	N	6					6					
Upbound	Domestic	5	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2009	N	3					3					
Upbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2009	N	3			3							
Upbound	Domestic	4	1046	1904	195.0	35.0	9	11.0	1.8	7.2	191	2009		1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2009	N	2			2							
Upbound	Domestic	4	000764	1650	200.0	35.0	2	11.0	1.5	0.5	208	2009	N	1							1			
Upbound	Domestic	4	705	2300	200.0	35.0	2	9.0	1.4	0.6	160	2009	N	2							2			
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2009		2			2							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2009		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2009	N	2			2							
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.5	6.5	160	2009	N	1			1							
Upbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2009		1			1							
Upbound	Domestic	4	688	1912	195.0	35.0	9	10.0	1.7	7.3	160	2009	N	1			1							
Upbound	Domestic	4	000764	1617	200.0	35.0	10	9.0	3.0	7.0	9999	2009	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2009	N	7							7			
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2009		12			12							
Upbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2009		1			1							
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2009		2			2							
Upbound	Domestic	4	862	1736	195.0	35.0	9	10.0	1.5	7.5	192	2009	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2009	N	1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	11	11.0	1.5	9.5	149	2009	N	1			1							
Upbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2009		1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	9	9.0	1.5	7.5	170	2009		1			1							
Upbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2009	N	8			8							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2009	N	1			1							
Upbound	Domestic	4	910	1449	195.0	35.0	8	9.0	1.9	6.1	203	2009	N	1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.5	6.5	217	2009	N	1			1							
Upbound	Domestic	4	000745	2151	195.0	35.0	6	10.0	1.6	4.4	170	2009		1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	191	2009	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	6	9.0	1.5	4.5	155	2009	N	1			1							
Upbound	Domestic	4	687	1515	195.0	35.0	8	9.0	1.4	6.6	150	2009	N	1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2009	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2009	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	3							3			
Upbound	Domestic	4	747	1500	195.0	35.0	2	9.0	1.6	0.4	136	2009	N	10							10			
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2009		10			10							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2009		4			4							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2009	N	12			12							
Upbound	Domestic	5	001619	4337	297.5	54.0	9	12.0	2.0	7.0	240	2009		2					2					
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2009	N	3			3							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2009	N	3			3							
Upbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2009	N	3			3							
Upbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2009	N	1			1							
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2009		2									2	
Upbound	Domestic	5	001632	3000	300.0	54.0	2	12.0	2.0	0.0	189	2009	N	2									2	
Upbound	Domestic	3	103	999999	72.0	24.0	6	8.5	6.0	0.0	300	2009		2		2								
Upbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2009	N	1									1	
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2009	N	1									1	
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2009	N	1			1							
Upbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2009	N	2			2							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2009	N	8			8							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	160	2009		1			1							
Upbound	Domestic	4	764	1539	200.0	35.0	8	9.0	1.7	6.3	163	2009	N	1			1							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2009	N	8			8							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2009	N	2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2009	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2009	N	4							4			
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2009	N	1			1							
Upbound	Domestic	4	000970	1557	200.0	35.0	9	9.0	1.7	7.3	193	2009	N	1			1							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2009	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	7	10.0	1.7	5.3	154	2009	N	1			1							
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2009		5									5	
Upbound	Domestic	4	687	1505	195.0	35.0	2	9.0	1.8	0.2	200	2009	N	1							1			
Upbound	Domestic	4	856	1701	195.0	35.0	2	10.0	1.7	0.3	210	2009	N	1							1			
Upbound	Domestic	4	823	1627	200.0	35.0	2	13.0	1.8	0.2	230	2009	N	2							2			
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2009		8			8							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2009		2			2							
Upbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	3							3			
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2009	N	1			1							
Upbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2009	N	1			1							
Upbound	Domestic	4	705	1877	200.0	35.0	8	10.0	1.5	6.5	146	2009	N	1			1							
Upbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2009	N	1			1							
Upbound	Domestic	5	773	1489	195.1	35.1	8	9.0	2.0	6.0	184	2009	N	1					1					
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2009		1			1							
Upbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2009	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	190	2009	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2009		2			2							
Upbound	Domestic	4	000764	1615	200.0	35.0	11	9.0	3.0	8.0	9999	2009	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.5	7.5	217	2009	N	1			1							
Upbound	Domestic	3	163	999999	95.5	34.1	11	8.0	8.0	3.0	220	2009	N	1		1								
Upbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	3							3			
Upbound	Domestic	4	000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2009		1			1							
Upbound	Domestic	4	1046	1904	195.0	35.0	9	11.0	1.8	7.2	191	2009	N	1			1							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	225	2009	N	3					3					
Upbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2009		1			1							
Upbound	Domestic	4	823	2300	200.0	35.0	9	12.0	1.6	7.4	150	2009	N	1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	2	9.0	1.6	0.4	206	2009		1							1			
Upbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2009	N	8							8			
Upbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2009	N	3							3			
Upbound	Domestic	4	687	1633	195.0	35.0	2	9.0	1.4	0.6	133	2009	N	1							1			
Upbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2009		1			1							
Upbound	Domestic	5	855	1490	195.0	35.0	9	9.5	2.0	7.0	170	2009		4					4					
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	120	2009		2					2					
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2009	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2009	N	5			5							
Upbound	Domestic	4	764	1504	200.0	35.0	7	9.0	1.5	5.5	189	2009	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	9	9.0	1.5	7.5	199	2009	N	1			1							
Upbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2009	N	2			2							
Upbound	Domestic	5	773	1428	195.1	35.1	8	8.7	1.7	6.3	170	2009	N	1					1					
Upbound	Domestic	4	823	1662	200.0	35.0	6	9.0	1.4	4.6	235	2009	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.5	0.5	205	2009		2							2			
Upbound	Domestic	4	764	1865	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	2							2			
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2009	N	2							2			
Upbound	Domestic	4	823	2304	200.0	35.0	7	12.0	1.7	5.3	190	2009		1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2009	N	1			1							
Upbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2009	N	1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	6	10.0	1.5	4.5	149	2009	N	1			1							
Upbound	Domestic	4	000687	1728	195.0	35.0	10	10.0	1.4	8.6	146	2009	N	1			1							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2009		2			2							
Upbound	Domestic	4	000764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2009		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2009		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	7	9.0	1.5	5.5	165	2009	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	7	9.0	1.6	5.4	154	2009	N	1			1							
Upbound	Domestic	4	601	1616	195.0	35.0	9	9.0	1.4	7.6	146	2009	N	1			1							
Upbound	Domestic	4	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2009	N	1							1			
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2009		31		31								
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2009		13		13								
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2009		3							3			
Upbound	Domestic	5	1632	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2009	N	1									1	
Upbound	Domestic	4	764	1552	200.0	35.0	9	9.0	1.5	7.5	163	2009	N	1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2009	N	4			4							
Upbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2009	N	1			1							
Upbound	Domestic	4	000705	1650	200.0	35.0	7	11.0	1.5	5.5	208	2009	N	1			1							
Upbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2009	N	4			4							
Upbound	Domestic	4	546	1900	200.0	35.0	8	9.0	2.0	6.0	190	2009	N	3			3							
Upbound	Domestic	4	1013	1468	195.0	35.0	9	9.0	1.9	7.1	211	2009	N	1			1							
Upbound	Domestic	4	706	2087	200.0	35.0	7	9.0	2.0	5.0	196	2009	N	1			1							
Upbound	Domestic	4	1020	1633	200.0	35.0	8	9.0	1.6	6.4	149	2009	N	1			1							
Upbound	Domestic	4	862	1736	195.0	35.0	2	10.0	1.5	0.5	192	2009	N	1							1			
Upbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2009	N	2							2			
Upbound	Domestic	4	696	1643	200.1	35.1	2	9.0	1.6	0.4	210	2009	N	1							1			
Upbound	Domestic	4	764	1552	200.0	35.0	2	9.0	1.5	0.5	163	2009	N	1							1			
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2009		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2009		3			3							
Upbound	Domestic	4	687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	2							2			
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2009		3			3							
Upbound	Domestic	4	687	1723	195.0	35.0	4	10.0	1.5	2.5	206	2009	N	1			1							
Upbound	Domestic	4	618	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	1							1			
Upbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2009	N	2			2							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2009	N	1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.5	5.5	225	2009	N	1			1							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2009	N	2			2							
Upbound	Domestic	4	000705	1250	200.0	35.0	9	10.0	1.5	7.5	135	2009	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2009	N	2			2							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2009		6		6								
Upbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2009	N	4							4			
Upbound	Domestic	4	764	1990	200.0	35.0	2	9.0	1.5	0.5	170	2009		1							1			
Upbound	Domestic	4	630	1450	195.0	35.0	2	8.0	1.5	0.5	136	2009	N	4							4			
Upbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2009		1		1								
Upbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	209	2009	N	1							1			
Upbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2009	N	1							1			
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	194	2009		1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2009		4			4							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2009		2			2							
Upbound	Domestic	4	000764	1578	200.0	35.0	12	9.0	3.0	9.0	9999	2009	N	1			1							
Upbound	Domestic	4	000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2009	N	1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	8	14.0	1.7	6.3	231	2009	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2009		12		12								
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2009	N	2			2							
Upbound	Domestic	4	687	2061	195.0	35.0	7	9.0	1.5	5.5	160	2009	N	2			2							
Upbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2009	N	1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2009	N	7			7							
Upbound	Domestic	4	1223	1651	200.0	35.0	11	11.0	1.5	9.5	145	2009	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	8	14.0	1.6	6.4	250	2009	N	1			1							
Upbound	Domestic	4	764	1557	200.0	35.0	9	9.0	1.5	7.5	135	2009	N	2			2							
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2009	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2009		8									8	
Upbound	Domestic	4	729	1681	200.0	35.0	2	9.0	1.5	0.5	160	2009	N	1							1			
Upbound	Domestic	4	663	1892	200.0	35.0	2	10.0	1.4	0.6	140	2009		1							1			
Upbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2009	N	3							3			
Upbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.1	0.9	194	2009	N	3							3			
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2009		3			3							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2009	N	11			11							
Upbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2009	N	2			2							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2009		1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2009	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2009		2			2							
Upbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2009	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2009		1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2009	N	1			1							
Upbound	Domestic	4	625	1500	195.0	35.0	8	9.0	1.6	6.4	149	2009	N	1			1							
Upbound	Domestic	4	848	1524	195.0	35.0	2	9.0	1.6	0.4	185	2009	N	3							3			
Upbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.5	0.5	150	2009	N	1							1			
Upbound	Domestic	4	745	1915	195.0	35.0	2	11.0	1.7	0.3	224	2009		2							2			
Upbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2009	N	2							2			
Upbound	Domestic	3	000133	444	110.0	32.0	8	10.3	8.0	0.0	450	2009		2		2								
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2009		12			12							
Upbound	Domestic	4	888	1529	195.0	35.0	8	9.0	1.5	6.5	160	2009		9			9							
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2009	N	7			7							
Upbound	Domestic	4	833	2739	200.0	35.0	9	12.0	1.6	7.4	250	2009	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2009		8					8					
Upbound	Domestic	4	000764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2009	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2009	N	13			13							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2009	N	2			2							
Upbound	Domestic	4	971	1557	200.0	35.0	8	9.0	1.7	6.3	193	2009	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2009	N	1			1							
Upbound	Domestic	5	001597	3844	297.0	54.0	1	10.0	0.6	0.4	280	2009		1									1	
Upbound	Domestic	3	133	999999	75.0	28.0	2	8.0	2.0	0.0	380	2009		1		1								
Upbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2009	N	2							2			
Upbound	Domestic	4	687	1586	195.0	35.0	2	9.0	1.4	0.6	148	2009	N	3							3			
Upbound	Domestic	4	000764	2600	200.0	35.0	2	9.0	1.6	0.4	200	2009		1							1			
Upbound	Domestic	5	808	2800	195.0	35.0	2	9.6	2.0	0.0	200	2009		2									2	
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2009		7									7	
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2009	N	2			2							
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2009	N	1			1							
Upbound	Domestic	5	001754	4531	297.5	54.0	7	10.0	1.9	5.1	220	2009		1					1					
Upbound	Domestic	5	1619	3660	297.5	54.0	9	11.0	2.0	7.0	160	2009		1					1					
Upbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2009	N	2			2							
Upbound	Domestic	4	623	1732	200.0	35.0	8	9.6	1.7	6.3	208	2009	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2009	N	1			1							
Upbound	Domestic	4	745	2345	195.0	35.0	5	9.0	1.6	3.4	209	2009	N	1			1							
Upbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2009		15		15								
Upbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2009	N	1									1	
Upbound	Domestic	4	799	1893	200.0	35.0	2	10.0	1.5	0.5	149	2009	N	1							1			
Upbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	132	2009		2							2			
Upbound	Domestic	4	85	401	110.0	26.0	2	6.5	1.2	0.8	70	2009	N	1							1			
Upbound	Domestic	5	001754	4211	297.5	54.0	7	11.0	2.0	5.0	200	2009	N	1					1					
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2009	N	15					15					
Upbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2009	N	1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2009		1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2009	N	1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2009	N	2			2							
Upbound	Domestic	4	927	1549	200.0	35.0	8	9.0	1.5	6.5	120	2009	N	1			1							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2009	N	2			2							
Upbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2009	N	1			1							
Upbound	Domestic	4	763	2290	195.0	35.0	8	12.0	1.7	6.3	235	2009	N	1			1							
Upbound	Domestic	4	986	1477	195.0	35.0	8	9.0	1.7	6.3	205	2009	N	1			1							
Upbound	Domestic	3	209	999999	100.0	30.0	8	8.0	8.0	0.0	460	2009		1		1								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2009		6									6	
Upbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2009		1		1								
Upbound	Domestic	4	1051	1586	200.1	35.1	2	8.7	1.5	0.5	171	2009	N	1							1			
Upbound	Domestic	5	834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2009		2									2	
Upbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	1							1			
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2009	N	19			19							
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2009	N	1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2009	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2009	N	3			3							
Upbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2009	N	2			2							
Upbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	13.0	2.0	9.0	208	2009		1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	6	9.0	1.7	4.3	160	2009	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2009	N	2			2							
Upbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2009	N	1			1							
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2009		13									13	
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2009		5									5	
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2009		32		32								
Upbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2009		1		1								
Upbound	Domestic	4	933	1527	195.0	35.0	2	9.0	1.5	0.5	199	2009	N	3							3			
Upbound	Domestic	4	687	1626	195.0	35.0	2	9.0	1.4	0.6	146	2009		1							1			
Upbound	Domestic	4	000823	2187	200.0	35.0	2	12.0	1.7	0.3	240	2009		1							1			
Upbound	Domestic	4	687	1724	195.0	35.0	2	10.0	1.5	0.5	206	2009		1							1			
Upbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2009	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2009	N	1			1							
Upbound	Domestic	4	705	9100	200.0	35.0	1	10.0	1.4	-0.4	208	2009	N	1							1			
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2009	N	3			3							
Upbound	Domestic	5	749	1309	195.0	35.0	9	9.1	2.0	7.0	165	2009	N	1					1					
Upbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2009	N	1			1							
Upbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2009	N	1			1							
Upbound	Domestic	5	2147	3400	297.5	54.0	2	10.0	2.0	0.0	180	2009		12									12	
Upbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2009		2					2					
Upbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	180	2009		2							2			
Upbound	Domestic	4	705	1880	200.0	35.0	2	10.0	1.4	0.6	140	2009	N	1							1			
Upbound	Domestic	4	716	1500	195.0	35.0	2	9.0	1.5	0.5	136	2009	N	3							3			
Upbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2009	N	1							1			
Upbound	Domestic	5	001597	3844	300.0	54.0	9	10.0	0.6	8.4	280	2009		1					1					
Upbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2009	N	4			4							
Upbound	Domestic	5	773	1489	195.1	35.1	8	9.0	1.8	6.2	165	2009	N	1					1					
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2009		2			2							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	3			3							
Upbound	Domestic	4	000764	1600	200.0	35.0	6	9.0	1.6	4.4	170	2009	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	214	2009		1			1							
Upbound	Domestic	4	000764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2009	N	1			1							
Upbound	Domestic	4	000784	1800	200.0	35.0	6	9.0	2.0	4.0	130	2009	N	1			1							
Upbound	Domestic	4	705	1687	200.0	35.0	8	9.0	1.3	6.7	146	2009	N	1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2009		1			1							
Upbound	Domestic	4	862	1725	195.0	35.0	2	10.0	2.0	0.0	192	2009	N	1							1			
Upbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.5	0.5	148	2009	N	1							1			
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2009	N	2							2			
Upbound	Domestic	4	000764	2353	200.0	35.0	8	12.9	1.6	6.4	205	2009		1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2009	N	2			2							
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2009	N	2			2							
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2009	N	18			18							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

																	Loaded				Unloaded			
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2009	N	7			7							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2009	N	1			1							
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.1	6.9	142	2009	N	1					1					
Upbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2009	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2009	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2009	N	1							1			
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	1.5	0.5	180	2009		10									10	
Upbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	132	2009	N	1							1			
Upbound	Domestic	3	158	0	85.0	30.0	8	9.5	7.5	0.5	320	2009		1		1								
Upbound	Domestic	4	687	1515	195.0	35.0	2	9.0	1.5	0.5	187	2009	N	1							1			
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2009	N	9			9							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	11.0	1.8	7.2	170	2009		2			2							
Upbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2009	N	1			1							
Upbound	Domestic	5	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2009	N	1					1					
Upbound	Domestic	4	823	1627	200.0	35.0	13	12.0	1.8	11.2	230	2009	N	1			1							
Upbound	Domestic	5	1521	3600	294.5	54.0	2	10.0	2.0	0.0	170	2009		7									7	
Upbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2009		2		2								
Upbound	Domestic	4	687	1491	195.0	35.0	2	9.0	1.8	0.2	240	2009	N	1							1			
Upbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	146	2009		1							1			
Upbound	Domestic	4	799	1893	200.0	35.0	2	10.0	1.4	0.6	149	2009		1							1			
Upbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2009	N	5							5			
Upbound	Domestic	4	952	1450	200.0	35.0	2	9.0	2.0	0.0	165	2009	N	1							1			
Upbound	Domestic	4	000705	1645	200.0	35.0	8	13.0	1.6	6.4	230	2009		1			1							
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2009	N	1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2009	N	4			4							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2009	N	5			5							
Upbound	Domestic	5	001918	3100	297.5	54.0	9	10.3	2.0	7.0	193	2009		1					1					
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2009	N	1			1							
Upbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2009	N	1			1							
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2009		1			1							
Upbound	Domestic	4	564	1619	200.0	35.0	7	9.0	1.6	5.4	160	2009	N	1			1							
Upbound	Domestic	4	000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2009	N	1							1			
Upbound	Domestic	4	688	1677	200.0	35.0	2	9.0	1.5	0.5	210	2009		1							1			
Upbound	Domestic	4	000719	1553	200.0	35.0	2	9.0	2.0	0.0	130	2009		1							1			
Upbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2009	N	2							2			
Upbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2009	N	2			2							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2009	N	15			15							
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2009	N	4			4							
Upbound	Domestic	4	680	2680	200.0	35.0	8	11.0	1.5	6.5	208	2009	N	2			2							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2009		1			1							
Upbound	Domestic	4	687	1500	195.0	35.0	2	9.0	1.6	0.4	210	2009	N	1							1			
Upbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	1.5	8.5	180	2009		1					1					
Upbound	Domestic	4	764	2100	200.0	35.0	12	12.0	1.5	10.5	186	2009	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	2			2							
Upbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2009	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2009	N	6			6							
Upbound	Domestic	4	694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2009	N	4			4							
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2009	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2009	N	3			3							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	180	2009	N	2			2							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2009	N	1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	2	8.0	1.6	0.4	165	2009		2							2			
Upbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2009	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.7	6.3	240	2009		1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2009		1			1							
Upbound	Domestic	4	942	1902	195.0	35.0	1	11.0	1.8	-0.8	180	2009	N	1							1			
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2009	N	2			2							
Upbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2009	N	2			2							
Upbound	Domestic	4	985	1520	195.0	35.0	9	9.0	1.6	7.4	160	2009	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2009	N	10			10							
Upbound	Domestic	4	000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2009	N	2			2							
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2009	N	1			1							
Upbound	Domestic	4	823	2289	200.0	35.0	8	12.0	1.6	6.4	240	2009		1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2009	N	1			1							
Upbound	Domestic	5	773	1489	195.1	35.1	8	9.0	1.8	6.2	166	2009	N	1					1					
Upbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2009		4		4								
Upbound	Domestic	5	1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2009		1					1					
Upbound	Domestic	5	822	1500	195.1	35.1	2	9.0	2.0	0.0	170	2009	N	2									2	
Upbound	Domestic	5	001754	3665	297.5	54.0	8	12.0	2.0	6.0	180	2009		1					1					
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2009	N	2			2							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2009		2			2							
Upbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2009		1			1							
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2009		1									1	
Upbound	Domestic	4	000764	1648	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	1							1			
Upbound	Domestic	4	000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2009	N	1							1			
Upbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2009	N	2									2	
Upbound	Domestic	4	843	1500	195.0	35.0	2	9.0	1.5	0.5	130	2009		1							1			
Upbound	Domestic	4	1039	1623	200.0	35.0	2	9.0	1.7	0.3	146	2009	N	1							1			
Upbound	Domestic	5	891	1580	200.0	35.0	8	9.0	1.9	6.1	142	2009	N	2					2					
Upbound	Domestic	4	000764	1568	200.0	35.0	7	9.0	1.6	5.4	204	2009	N	1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.4	6.6	146	2009		1			1							
Upbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2009	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	4	11.0	1.7	2.3	224	2009	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2009		1			1							
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2009		11									11	
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2009		5		5								
Upbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2009	N	3							3			
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2009		3			3							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2009		4			4							
Upbound	Domestic	5	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2009	N	4									4	
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2009	N	1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	2			2							
Upbound	Domestic	5	000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2009	N	1					1					
Upbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	183	2009		1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2009		1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	215	2009	N	1			1							
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2009	N	11			11							
Upbound	Domestic	5	000823	2469	200.0	35.0	8	15.0	3.0	5.0	9999	2009	N	1					1					
Upbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2009	N	3			3							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	140	2009	N	1			1							
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2009		28		28								
Upbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2009	N	3							3			
Upbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2009	N	1							1			
Upbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2009	N	1							1			
Upbound	Domestic	4	705	1651	200.0	35.0	2	9.0	2.0	0.0	196	2009	N	1							1			
Upbound	Domestic	5	002099	4226	356.0	54.0	8	10.0	0.6	7.4	280	2009		1					1					
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2009	N	2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2009	N	10			10							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2009		3			3							
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2009	N	1			1							
Upbound	Domestic	5	891	1580	200.0	35.0	9	9.0	1.9	7.1	142	2009	N	1					1					
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2009	N	1			1							
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2009	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2009	N	1			1							
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2009		4		4								
Upbound	Domestic	4	764	2200	200.0	35.0	2	8.0	2.0	0.0	165	2009		1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2009	N	3							3			
Upbound	Domestic	4	000782	1990	200.0	35.0	2	9.0	1.5	0.5	170	2009	N	1							1			
Upbound	Domestic	3	000323	999999	140.0	42.0	6	9.5	5.8	0.2	428	2009		1		1								
Upbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2009		5		5								
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2009		3			3							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2009		1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2009		17			17							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2009		5			5							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2009		1			1							
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	149	2009	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2009		2					2					
Upbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2009	N	4			4							
Upbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2009	N	4			4							
Upbound	Domestic	4	764	1537	200.0	35.0	5	9.0	1.8	3.2	225	2009	N	1			1							
Upbound	Domestic	4	823	1536	200.0	35.0	9	9.0	1.5	7.5	175	2009	N	1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2009		24		24								
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2009	N	2							2			
Upbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2009	N	1							1			
Upbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2009	N	4							4			
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2009	N	2			2							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2009	N	7			7							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2009	N	6			6							
Upbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2009	N	3			3							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2009	N	1			1							
Upbound	Domestic	4	000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2009	N	2			2							
Upbound	Domestic	4	994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2009	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2009	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	6	9.0	1.6	4.4	154	2009	N	2			2							
Upbound	Domestic	4	783	1902	195.0	35.0	9	11.0	1.9	7.1	199	2009		1			1							
Upbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2009		1							1			
Upbound	Domestic	4	676	1397	195.0	35.0	2	9.0	1.6	0.4	160	2009	N	1							1			
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2009		6			6							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	213	2009		2			2							
Upbound	Domestic	5	001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2009		4					4					
Upbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2009		2			2							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2009	N	6			6							
Upbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2009	N	6			6							
Upbound	Domestic	4	1019	1489	195.0	35.0	9	9.0	1.7	7.3	145	2009	N	1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2009	N	1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	7	9.0	1.8	5.2	205	2009	N	1			1							
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2009	N	1			1							
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2009		10									10	
Upbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2009		2							2			
Upbound	Domestic	4	823	2732	200.0	35.0	2	12.0	1.6	0.4	250	2009	N	2							2			
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2009		1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2009	N	2			2							
Upbound	Domestic	4	764	1666	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	1			1							
Upbound	Domestic	4	000687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	1							1			
Upbound	Domestic	4	901	2700	195.0	35.0	8	9.0	1.6	6.4	180	2009	N	1			1							
Upbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2009	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2009	N	4			4							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	204	2009	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2009		2			2							
Upbound	Domestic	4	000705	1650	200.0	35.0	8	12.0	1.5	6.5	208	2009	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2009	N	1			1							
Upbound	Domestic	4	917	1650	200.0	35.0	2	9.0	1.5	0.5	190	2009	N	2							2			
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2009	N	2				2						
Downbound	Domestic	4	771	1660	200.0	35.0	9	9.0	1.4	7.6	218	2009	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2009		1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2009	N	1				1						
Downbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2009	N	3				3						
Downbound	Domestic	4	688	1680	200.0	35.0	9	9.0	1.5	7.5	210	2009	N	1				1						
Downbound	Domestic	4	705	1646	200.0	35.0	2	9.0	1.5	0.5	165	2009	N	1								1		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2009	N	1								1		
Downbound	Domestic	4	957	1854	200.0	35.0	1	10.0	1.6	-0.6	166	2009	N	1								1		
Downbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2009		1		1								
Downbound	Domestic	4	695	1416	200.0	35.0	2	8.6	1.5	0.5	130	2009	N	1								1		
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2009	N	6								6		
Downbound	Domestic	4	856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2009	N	1								1		
Downbound	Domestic	5	1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2009		11						11				
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2009		3				3						
Downbound	Domestic	4	000695	1520	195.0	35.0	7	9.0	1.6	5.4	179	2009	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2009	N	5				5						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2009		1				1						
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2009	N	1				1						
Downbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	190	2009	N	1				1						
Downbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2009	N	1				1						
Downbound	Domestic	4	975	1480	195.0	35.0	8	9.0	1.6	6.4	146	2009	N	1				1						
Downbound	Domestic	3	110	999999	56.0	22.0	7	7.0	6.0	1.0	260	2009		1		1								
Downbound	Domestic	3	000357	999999	106.0	32.0	2	11.0	9.0	-7.0	450	2009	N	1		1								
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	177	2009	N	5								5		
Downbound	Domestic	4	680	2680	200.0	35.0	2	11.0	1.5	0.5	208	2009	N	1								1		
Downbound	Domestic	4	975	1480	195.0	35.0	2	9.0	1.6	0.4	146	2009	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2009		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2009	N	2								2		
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2009	N	2				2						
Downbound	Domestic	5	834	2502	147.6	54.0	9	9.5	1.5	7.5	185	2009		1						1				
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2009		17		17								
Downbound	Domestic	5	855	1401	195.0	35.0	2	9.0	2.0	0.0	140	2009		4										4
Downbound	Domestic	4	000687	1728	195.0	35.0	2	10.0	1.4	0.6	146	2009	N	1								1		
Downbound	Domestic	3	000323	999999	140.0	42.0	6	9.5	5.8	0.2	428	2009	N	3		3								
Downbound	Domestic	4	888	1500	195.0	35.0	2	9.0	1.6	0.4	149	2009	N	1								1		
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2009	N	3								3		
Downbound	Domestic	5	001597	3844	297.0	54.0	9	10.0	0.6	8.4	280	2009		3						3				
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2009		1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2009	N	3				3						
Downbound	Domestic	4	676	1502	195.0	35.0	5	9.0	1.6	3.4	180	2009	N	1				1						
Downbound	Domestic	4	730	1664	200.0	35.0	8	9.0	1.4	6.6	148	2009	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2009	N	1				1						
Downbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2009	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2009	N	1				1						
Downbound	Domestic	3	439	999999	145.2	28.0	7	7.5	7.0	0.0	388	2009		2		2								
Downbound	Domestic	5	1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2009		1										1
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2009		10		10								
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2009		1				1						
Downbound	Domestic	4	909	1445	195.0	35.0	8	9.0	1.9	6.1	203	2009	N	1				1						
Downbound	Domestic	4	745	1496	195.0	35.0	8	9.0	1.6	6.4	166	2009	N	1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	3				3						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2009	N	1				1						
Downbound	Domestic	4	764	1533	200.0	35.0	9	9.0	1.7	7.3	170	2009	N	1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	1	10.0	1.6	-0.6	192	2009	N	1								1		
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2009	N	1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2009	N	2				2						
Downbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2009	N	1				1						
Downbound	Domestic	3	000382	999999	114.7	34.0	11	9.0	8.0	3.0	420	2009		1		1								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	633	1300	195.0	35.0	2	8.6	2.0	0.0	166	2009	N	1										1
Downbound	Domestic	5	1619	3660	297.5	54.0	2	11.0	2.0	0.0	160	2009		1										1
Downbound	Domestic	4	1046	1904	195.0	35.0	1	11.0	1.8	-0.8	191	2009	N	1								1		
Downbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2009	N	4								4		
Downbound	Domestic	4	888	1500	195.1	35.0	2	9.0	1.6	0.4	149	2009	N	1								1		
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2009		2				2						
Downbound	Domestic	4	715	1445	195.0	35.0	9	9.0	2.0	7.0	161	2009	N	1				1						
Downbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2009	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2009		1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	11	12.0	2.0	9.0	208	2009		1				1						
Downbound	Domestic	4	716	1500	195.0	35.0	9	9.0	1.5	7.5	136	2009	N	3				3						
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2009	N	6				6						
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2009	N	1				1						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2009	N	1				1						
Downbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2009	N	2				2						
Downbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2009	N	2				2						
Downbound	Domestic	4	000705	1618	200.0	35.0	9	9.0	1.6	7.4	210	2009	N	1				1						
Downbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2009	N	1				1						
Downbound	Domestic	4	000329	1500	140.0	40.0	2	3.0	2.0	0.0	70	2009		1								1		
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2009	N	2								2		
Downbound	Domestic	4	698	1475	195.0	35.0	2	9.0	1.6	0.4	189	2009	N	3								3		
Downbound	Domestic	3	204	999999	156.0	38.0	6	6.5	6.5	-0.5	363	2009		1		1								
Downbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2009	N	1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	2.0	7.0	16	2009		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2009		2				2						
Downbound	Domestic	4	966	1630	200.0	35.0	8	9.0	1.6	6.4	193	2009	N	1				1						
Downbound	Domestic	4	687	1571	195.0	35.0	8	9.0	1.3	6.7	145	2009	N	1				1						
Downbound	Domestic	4	000910	1659	200.0	35.0	8	9.0	1.5	6.5	194	2009	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2009	N	2				2						
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2009	N	9				9						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2009	N	6				6						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2009	N	9				9						
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2009		3								3		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2009		4								4		
Downbound	Domestic	3	105	131	70.0	28.0	7	8.0	6.5	0.5	390	2009		2		2								
Downbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2009		2				2						
Downbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2009		2				2						
Downbound	Domestic	4	000687	1504	195.0	35.0	8	9.0	1.6	6.4	205	2009	N	1				1						
Downbound	Domestic	4	000705	1612	200.0	35.0	7	9.0	1.6	5.4	205	2009	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2009	N	2								2		
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2009	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2009		1				1						
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2009	N	11				11						
Downbound	Domestic	5	001633	4744	300.0	54.0	9	11.6	2.3	6.7	189	2009	N	1						1				
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2009	N	4				4						
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2009	N	6								6		
Downbound	Domestic	4	823	1652	200.0	35.0	2	9.0	1.4	0.6	235	2009	N	1								1		
Downbound	Domestic	4	994	2000	195.0	35.0	2	9.0	1.5	0.5	160	2009	N	1								1		
Downbound	Domestic	4	783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2009	N	4								4		
Downbound	Domestic	5	747	1750	200.0	35.0	2	9.3	2.0	0.0	190	2009	N	2										2
Downbound	Domestic	4	764	1646	200.0	35.0	1	9.0	1.6	-0.6	226	2009	N	3								3		
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2009	N	1				1						
Downbound	Domestic	4	710	1557	195.0	35.0	9	9.2	1.6	7.4	139	2009		1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2009		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2009	N	3				3						
Downbound	Domestic	5	2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2009		1						1				
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2009		1				1						
Downbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2009	N	2				2						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2009		4				4						
Downbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2009		1				1						
Downbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2009	N	4				4						
Downbound	Domestic	4	687	1510	195.0	35.0	8	9.0	1.6	6.4	119	2009	N	1				1						
Downbound	Domestic	5	808	2800	195.0	35.0	10	9.6	2.0	8.0	200	2009		8						8				
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2009		10		10								
Downbound	Domestic	3	303	999999	102.5	34.0	7	9.0	7.5	-0.5	440	2009		1		1								
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2009		5						5				
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2009		12						12				
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2009		1				1						
Downbound	Domestic	4	971	1524	200.0	35.0	8	9.0	2.1	5.9	193	2009	N	1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2009	N	1				1						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2009		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2009	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2009	N	1								1		
Downbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2009	N	4								4		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2009	N	3								3		
Downbound	Domestic	4	000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2009		1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2009	N	2				2						
Downbound	Domestic	4	705	1885	200.0	35.0	1	10.0	1.4	-0.4	208	2009	N	6								6		
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2009		2				2						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2009	N	4				4						
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2009		4				4						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2009		1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2009	N	1				1						
Downbound	Domestic	4	687	1476	195.0	35.0	8	9.0	1.7	6.3	160	2009	N	1				1						
Downbound	Domestic	3	999999	999999	72.7	24.1	2	6.0	6.0	-4.0	336	2009	N	1		1								
Downbound	Domestic	3	634	999999	145.0	48.0	8	9.0	8.0	0.0	440	2009	N	1		1								
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2009	N	1								1		
Downbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2009	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2009		1				1						
Downbound	Domestic	4	1039	1623	200.0	35.0	8	9.0	1.7	6.3	146	2009	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2009	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2009		1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2009		3				3						
Downbound	Domestic	4	705	1645	200.0	35.0	9	9.0	1.5	7.5	200	2009	N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2009	N	1				1						
Downbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2009		1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	1.8	8.2	190	2009		1				1						
Downbound	Domestic	4	698	1659	200.0	35.0	8	9.0	1.3	6.7	185	2009	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2009	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2009		1								1		
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2009	N	1								1		
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	189	2009	N	1								1		
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	194	2009		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	9								9		
Downbound	Domestic	5	002482	2202	293.0	50.0	7	9.0	2.0	5.0	250	2009	N	1						1				
Downbound	Domestic	4	823	1535	200.0	35.0	9	9.0	1.7	7.3	260	2009	N	1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2009	N	6				6						
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2009	N	1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2009	N	1				1						
Downbound	Domestic	5	000891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2009	N	2										2
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2009		2		2								
Downbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2009	N	3								3		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2009		2								2		
Downbound	Domestic	4	000705	1250	200.0	35.0	2	10.0	1.5	0.5	135	2009	N	1								1		
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	1.8	0.2	166	2009	N	1										1
Downbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2009	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2009	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2009	N	1				1						
Downbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2009		1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2009		2				2						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2009	N	1				1						
Downbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2009	N	1				1						
Downbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2009	N	4				4						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2009	N	10				10						
Downbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.1	6.9	194	2009	N	3				3						
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2009		22		22								
Downbound	Domestic	3	230	999999	148.0	30.0	8	8.8	7.3	0.7	360	2009		2		2								
Downbound	Domestic	3	000373	559	141.0	35.0	8	9.0	8.0	0.0	420	2009		1		1								
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2009	N	12										12
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2009		1										1
Downbound	Domestic	5	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2009	N	2										2
Downbound	Domestic	4	1065	1659	200.0	35.0	2	9.0	1.5	0.5	185	2009	N	1								1		
Downbound	Domestic	4	909	1445	195.0	35.0	2	9.0	1.9	0.1	203	2009	N	1								1		
Downbound	Domestic	4	933	1548	200.0	35.0	9	9.0	1.6	7.4	193	2009	N	1				1						
Downbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2009	N	2				2						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2009		1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2009		2				2						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2009	N	1				1						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2009	N	2								2		
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2009		2				2						
Downbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2009	N	2				2						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2009	N	1				1						
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2009	N	9								9		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2009		1								1		
Downbound	Domestic	4	745	1915	195.0	35.0	1	11.0	1.7	-0.7	224	2009	N	4								4		
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	3				3						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2009	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2009	N	1				1						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2009	N	5				5						
Downbound	Domestic	4	000764	1562	200.0	35.0	12	9.0	3.0	9.0	9999	2009	N	1				1						
Downbound	Domestic	4	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2009	N	1								1		
Downbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2009	N	1				1						
Downbound	Domestic	4	182	500	110.0	32.0	2	6.0	1.5	0.5	80	2009	N	1								1		
Downbound	Domestic	4	862	1725	195.0	35.0	8	10.0	2.0	6.0	192	2009	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2009	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	191	2009	N	1				1						
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2009	N	4								4		
Downbound	Domestic	4	697	1729	195.0	35.0	2	10.0	1.5	0.5	176	2009	N	1								1		
Downbound	Domestic	4	736	1654	200.0	35.0	2	9.0	1.5	0.5	187	2009	N	1								1		
Downbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2009	N	1								1		
Downbound	Domestic	5	1876	3300	297.5	54.0	9	9.6	2.0	7.0	220	2009		3						3				
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2009		1				1						
Downbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2009		1				1						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2009		2						2				
Downbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2009	N	2				2						
Downbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2009	N	1				1						
Downbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2009	N	1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2009	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2009		1				1						
Downbound	Domestic	4	764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2009		1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2009		2				2						
Downbound	Domestic	4	689	1470	195.0	35.0	8	9.0	1.7	6.3	188	2009		1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2009		2				2						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2009	N	1				1						
Downbound	Domestic	3	232	999999	110.0	32.0	8	8.6	7.5	0.5	350	2009		8		8								
Downbound	Domestic	4	783	1937	195.0	35.0	1	11.0	1.8	-0.8	210	2009	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2009		5								5		
Downbound	Domestic	4	902	1750	200.0	35.0	1	10.0	1.5	-0.5	194	2009	N	2								2		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2009	N	1								1		
Downbound	Domestic	5	812	1432	195.0	35.0	2	9.0	1.1	0.9	142	2009	N	1										1
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2009		5				5						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2009		1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2009		1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	1	11.0	1.5	-0.5	218	2009	N	20								20		
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2009	N	8				8						
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	145	2009	N	1				1						
Downbound	Domestic	4	705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2009	N	2				2						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2009	N	1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2009	N	1				1						
Downbound	Domestic	4	695	1520	195.0	35.0	9	9.0	1.6	7.4	146	2009	N	1				1						
Downbound	Domestic	4	986	1477	195.0	35.0	8	9.0	1.8	6.2	205	2009	N	1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2009		1								1		
Downbound	Domestic	4	701	1508	195.0	35.0	2	9.0	1.6	0.4	196	2009	N	2								2		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2009	N	1								1		
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2009		5				5						
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2009		2				2						
Downbound	Domestic	4	663	1892	200.0	35.0	9	10.0	1.4	7.6	140	2009		1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2009		1				1						
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2009	N	1				1						
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2009		13		13								
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2009	N	1								1		
Downbound	Domestic	4	774	1450	195.0	35.0	2	9.0	1.5	0.5	190	2009	N	6								6		
Downbound	Domestic	4	705	1893	200.0	35.0	1	10.0	1.4	-0.4	205	2009	N	10								10		
Downbound	Domestic	4	795	1665	200.0	35.0	8	9.0	1.4	6.6	147	2009	N	1				1						
Downbound	Domestic	4	966	1654	200.0	35.0	8	9.0	1.4	6.6	193	2009	N	2				2						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2009	N	3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2009	N	2				2						
Downbound	Domestic	4	000258	2220	172.8	54.0	9	9.6	2.0	7.0	100	2009	1	1				1						
Downbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2009	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	2	11.0	1.8	0.2	170	2009		2								2		
Downbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	186	2009	N	4								4		
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2009	N	4								4		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	190	2009	N	2								2		
Downbound	Domestic	4	685	1500	195.0	35.0	2	9.0	1.6	0.4	190	2009	N	1								1		
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2009		5				5						
Downbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2009		1				1						
Downbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2009		1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2009	N	3				3						
Downbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2009	N	1				1						
Downbound	Domestic	4	971	1557	200.0	35.0	3	9.0	1.7	1.3	193	2009	N	1								1		
Downbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2009	N	3								3		
Downbound	Domestic	4	000764	2007	200.0	35.0	3	14.0	3.0	0.0	9999	2009	N	1								1		
Downbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2009	N	1								1		
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2009		12						12				
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2009		4				4						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2009		2				2						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2009		1				1						
Downbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2009		12						12				
Downbound	Domestic	4	000764	2300	200.0	35.0	7	9.0	1.4	5.6	165	2009		1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2009		5				5						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2009	N	3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2009	N	1				1						
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2009	N	1				1						
Downbound	Domestic	4	927	1549	200.0	35.0	9	9.0	1.5	7.5	120	2009	N	1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2009		26		26								
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2009	N	1								1		
Downbound	Domestic	4	696	1500	195.1	35.0	2	9.0	1.6	0.4	149	2009	N	1								1		
Downbound	Domestic	4	888	1500	195.0	35.0	2	9.0	1.7	0.3	149	2009	N	1								1		
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2009	N	1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2009		4				4						
Downbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2009	N	1				1						
Downbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2009		1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2009		2				2						
Downbound	Domestic	4	823	2345	200.0	35.0	8	12.0	1.7	6.3	223	2009		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	10	12.0	1.5	8.5	208	2009	N	1				1						
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2009	N	3								3		
Downbound	Domestic	5	000745	2235	195.0	13.0	2	15.0	3.0	-1.0	9999	2009	N	1										1
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2009		4				4						
Downbound	Domestic	5	001754	4444	297.5	54.0	7	11.0	2.0	5.0	200	2009	N	1						1				
Downbound	Domestic	4	687	1722	195.0	35.0	1	10.0	1.6	-0.6	205	2009	N	2								2		
Downbound	Domestic	4	705	1877	200.0	35.0	9	10.0	1.5	7.5	146	2009	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2009		2				2						
Downbound	Domestic	4	745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2009	N	1				1						
Downbound	Domestic	4	745	1458	195.0	35.0	8	9.0	1.9	6.1	205	2009	N	1				1						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2009	N	1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2009		1				1						
Downbound	Domestic	4	696	1644	200.0	35.0	9	9.0	1.6	7.4	180	2009	N	1				1						
Downbound	Domestic	4	1013	1508	195.0	35.0	11	11.0	1.7	9.3	211	2009	N	1				1						
Downbound	Domestic	3	196	999999	81.5	30.0	7	9.6	6.5	0.5	350	2009		1		1								
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2009		5										5
Downbound	Domestic	5	001619	3550	297.5	54.0	3	9.0	2.0	1.0	174	2009		1										1
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2009	N	11				11						
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2009	N	4				4						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2009	N	2				2						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2009	N	1								1		
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2009	N	11								11		
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2009		8								8		
Downbound	Domestic	5	000764	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2009	N	1										1
Downbound	Domestic	4	901	1450	195.0	35.0	2	9.0	1.5	0.5	190	2009	N	1								1		
Downbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	3				3						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2009	N	5				5						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	205	2009	N	1				1						
Downbound	Domestic	4	764	1666	200.0	35.0	9	9.0	1.5	7.5	170	2009		1				1						
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2009	N	1				1						
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2009	N	2				2						
Downbound	Domestic	4	1020	1644	200.0	35.0	2	9.0	1.6	0.4	166	2009	N	1								1		
Downbound	Domestic	4	862	1539	195.0	35.0	2	9.0	1.5	0.5	192	2009	N	2								2		
Downbound	Domestic	4	000823	2100	200.0	35.0	9	11.0	2.0	7.0	165	2009		1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2009	N	2				2						
Downbound	Domestic	4	630	1450	195.0	35.0	8	8.0	1.5	6.5	136	2009	N	3				3						
Downbound	Domestic	4	705	2002	200.0	35.0	7	9.0	2.0	5.0	190	2009	N	1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	4				4						
Downbound	Domestic	4	687	1491	195.0	35.0	9	9.0	1.8	7.2	240	2009	N	1				1						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2009	N	3				3						
Downbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2009	N	2				2						
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2009	N	1				1						
Downbound	Domestic	4	685	1728	195.0	35.0	8	10.0	1.6	6.4	176	2009	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2009		1				1						
Downbound	Domestic	4	933	1524	200.0	35.0	9	9.0	1.8	7.2	193	2009	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2009	N	2								2		
Downbound	Domestic	4	1056	2000	200.0	35.0	2	9.0	1.3	0.7	160	2009	N	1								1		
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2009		3				3						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2009		4				4						
Downbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2009	N	2				2						
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2009		5				5						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2009	N	4				4						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2009		2				2						
Downbound	Domestic	4	000432	1296	105.0	35.0	8	10.0	2.0	6.0	9999	2009	N	1				1						
Downbound	Domestic	4	700	1741	195.0	35.0	9	10.0	1.6	7.4	130	2009	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	8	9.0	1.5	6.5	199	2009	N	1				1						
Downbound	Domestic	4	823	2289	200.0	35.0	9	12.0	1.6	7.4	240	2009		1				1						
Downbound	Domestic	4	546	1450	200.0	35.0	8	9.0	2.0	6.0	190	2009	N	1				1						
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2009		1		1								
Downbound	Domestic	4	690	1474	195.0	35.0	2	9.0	1.8	0.2	176	2009	N	1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	180	2009	N	2								2		
Downbound	Domestic	4	952	1450	195.0	35.0	8	9.0	1.6	6.4	190	2009	N	1				1						
Downbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2009	N	1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2009		1				1						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2009		1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2009		1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2009		2				2						
Downbound	Domestic	3	342	999999	141.0	35.0	8	9.8	7.5	0.5	405	2009	N	5		5								
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2009	N	4								4		
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2009	N	4								4		
Downbound	Domestic	5	000745	2235	200.0	35.0	2	15.0	3.0	-1.0	9999	2009	N	1										1
Downbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	180	2009		1				1						
Downbound	Domestic	5	001771	3694	297.0	54.0	9	9.0	2.0	7.0	185	2009	N	1						1				
Downbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2009	N	3				3						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2009		1				1						
Downbound	Domestic	5	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2009	N	2						2				
Downbound	Domestic	5	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2009	N	1						1				
Downbound	Domestic	4	701	1508	195.0	35.0	8	9.0	1.6	6.4	196	2009	N	1				1						
Downbound	Domestic	4	735	1500	200.0	35.0	2	9.0	1.6	0.4	149	2009	N	2								2		
Downbound	Domestic	4	698	1536	195.0	35.0	8	9.0	1.5	6.5	196	2009	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2009		1				1						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2009	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2009		1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2009	N	1				1						
Downbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.5	6.5	160	2009	N	1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2009	N	1				1						
Downbound	Domestic	4	764	1900	200.0	35.0	7	10.0	1.5	5.5	210	2009	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2009		2				2						
Downbound	Domestic	4	910	1489	195.0	35.0	2	9.0	1.7	0.3	145	2009	N	2								2		
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2009	N	12								12		
Downbound	Domestic	4	000682	943	195.0	35.0	2	10.0	1.6	0.4	180	2009	N	1								1		
Downbound	Domestic	4	736	1654	200.0	35.0	2	9.0	1.5	0.5	185	2009	N	1								1		
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2009		15				15						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2009		2				2						
Downbound	Domestic	5	002099	4226	356.0	54.0	4	10.0	0.6	3.4	280	2009		1						1				
Downbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2009		1				1						
Downbound	Domestic	5	001754	3694	298.0	54.0	9	10.0	2.0	7.0	185	2009	N	1						1				
Downbound	Domestic	4	952	1450	195.0	35.0	8	9.0	2.0	6.0	165	2009	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2009	N	2				2						
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2009	N	2				2						
Downbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	170	2009	N	3				3						
Downbound	Domestic	5	001619	4337	297.5	54.0	7	12.0	2.0	5.0	240	2009		2						2				

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
								An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.						OK			Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
			REG	CAP	OVER	OVER	ACTUAL	LOAD	LIGHT	DRAFT DUE	H F		CONTAINER		Self-									
DIRECTION	TTYPE	VTYPE	TONS	TONS	LENGTH	BREADTH	DRAFT	DRAFT	DRAFT	TO CARGO	POINT	YEAR	IZED	TRIPS	Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2009	N	3				3						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.5	6.5	217	2009	N	1				1						
Downbound	Domestic	4	1019	1489	195.0	35.0	8	9.0	1.7	6.3	145	2009	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2009		1								1		
Downbound	Domestic	4	000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	5								5		
Downbound	Domestic	4	694	1743	195.0	35.0	2	10.0	1.6	0.4	176	2009	N	4								4		
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2009		9						9				
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2009		11				11						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2009		2				2						
Downbound	Domestic	5	002424	2213	295.0	50.0	7	9.0	2.5	4.5	280	2009	N	1						1				
Downbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.6	6.4	149	2009	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2009	N	6				6						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2009	N	3				3						
Downbound	Domestic	4	1051	1586	200.1	35.1	9	8.7	1.5	7.5	171	2009	N	1				1						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2009	N	9				9						
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2009	N	2				2						
Downbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2009	N	1				1						
Downbound	Domestic	5	855	1490	195.0	35.0	2	9.5	2.0	0.0	170	2009		4										4
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2009	N	2										2
Downbound	Domestic	3	103	999999	72.0	24.0	6	8.5	6.0	0.0	300	2009		1		1								
Downbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2009	N	1				1						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2009	N	2				2						
Downbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2009	N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2009	N	11				11						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2009	N	6				6						
Downbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2009	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2009	N	3				3						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2009	N	5				5						
Downbound	Domestic	5	001632	3000	300.0	54.0	9	12.0	2.0	7.0	189	2009	N	2						2				
Downbound	Domestic	4	764	1539	200.0	35.0	8	9.0	1.7	6.3	163	2009	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2009	N	3								3		
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	1				1						
Downbound	Domestic	4	909	1442	195.0	35.0	9	9.0	1.9	7.1	203	2009	N	1				1						
Downbound	Domestic	4	986	1477	195.0	35.0	9	9.0	1.7	7.3	205	2009	N	1				1						
Downbound	Domestic	4	764	1533	200.0	35.0	2	9.0	1.7	0.3	170	2009	N	1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2009	N	3								3		
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2009		7				7						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2009		3				3						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2009	N	1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2009		2				2						
Downbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2009	N	1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	6								6		
Downbound	Domestic	3	163	999999	95.5	34.1	11	8.0	8.0	3.0	220	2009	N	1		1								
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	2								2		
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2009		6						6				
Downbound	Domestic	5	825	1707	147.6	54.0	6	10.6	2.0	4.0	174	2009		1						1				
Downbound	Domestic	4	000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2009		1				1						
Downbound	Domestic	4	000248	1600	172.0	54.0	9	12.0	2.0	7.0	9999	2009	1	1				1						
Downbound	Domestic	4	687	1626	195.0	35.0	8	9.0	1.4	6.6	146	2009	N	1				1						
Downbound	Domestic	4	888	1475	195.0	35.0	2	9.0	1.6	0.4	206	2009		19								19		
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2009	N	8								8		
Downbound	Domestic	5	723	1481	195.0	35.0	3	9.2	2.5	0.5	186	2009	N	2										2
Downbound	Domestic	4	764	1531	200.0	35.0	2	9.0	1.6	0.4	204	2009	N	1								1		
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2009		1				1						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2009		6						6				
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	146	2009		1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2009	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	154	2009	N	1				1						
Downbound	Domestic	4	764	1521	200.0	35.0	9	9.0	1.9	7.1	225	2009	N	1				1						
Downbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2009		1		1								
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	2.0	0.0	184	2009		1										1
Downbound	Domestic	4	764	1865	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	2								2		
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2009	N	1				1						
Downbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2009	N	1				1						
Downbound	Domestic	4	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2009	N	2								2		
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2009		2				2						
Downbound	Domestic	4	000764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2009		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2009		4				4						
Downbound	Domestic	5	1038	2000	155.1	54.0	9	10.0	2.0	7.0	180	2009		2						2				
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2009		40		40								
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2009		10		10								
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	225	2009	N	2										2
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	2.0	0.0	180	2009	N	3								3		
Downbound	Domestic	4	764	1615	200.0	35.0	2	9.0	1.6	0.4	225	2009	N	1								1		
Downbound	Domestic	4	676	1501	195.0	35.0	9	9.0	1.6	7.4	162	2009	N	1				1						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2009	N	4				4						
Downbound	Domestic	4	802	2110	200.0	35.0	1	12.0	1.8	-0.8	234	2009	N	5								5		
Downbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2009	N	2				2						
Downbound	Domestic	4	546	1900	200.0	35.0	8	9.0	2.0	6.0	190	2009	N	1				1						
Downbound	Domestic	4	706	2087	200.0	35.0	7	9.0	2.0	5.0	196	2009	N	1				1						
Downbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2009	N	1				1						
Downbound	Domestic	4	1013	1468	195.0	35.0	9	9.0	1.9	7.1	211	2009	N	1				1						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2009	N	1				1						
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2009	N	1								1		
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	1.5	0.5	192	2009	N	2								2		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2009	N	4								4		
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2009	N	3								3		
Downbound	Domestic	4	764	1552	200.0	35.0	2	9.0	1.5	0.5	163	2009	N	1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2009		1				1						
Downbound	Domestic	5	002099	4467	356.0	54.0	4	10.0	0.6	3.4	280	2009		1						1				
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2009		3				3						
Downbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2009	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2009	N	3				3						
Downbound	Domestic	4	696	1643	200.1	35.1	9	9.0	1.6	7.4	210	2009	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2009	N	2				2						
Downbound	Domestic	4	687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	5								5		
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2009	N	1				1						
Downbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2009	N	2				2						
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2009	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2009		11		11								
Downbound	Domestic	4	618	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	1								1		
Downbound	Domestic	4	901	2700	195.0	35.0	2	9.0	1.6	0.4	180	2009	N	1								1		
Downbound	Domestic	4	000705	1650	200.0	35.0	2	12.0	1.5	0.5	208	2009	N	1								1		
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2009		5				5						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2009		7				7						
Downbound	Domestic	4	000764	1578	200.0	35.0	12	9.0	3.0	9.0	9999	2009	N	1				1						
Downbound	Domestic	4	000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2009	N	1				1						
Downbound	Domestic	4	910	1489	195.0	35.0	9	9.0	1.7	7.3	145	2009	N	1				1						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2009		11		11								
Downbound	Domestic	4	736	1884	200.0	35.0	2	10.0	1.5	0.5	176	2009	N	2								2		
Downbound	Domestic	4	729	1681	200.0	35.0	8	9.0	1.5	6.5	160	2009	N	1				1						
Downbound	Domestic	4	687	2061	195.0	35.0	7	9.0	1.5	5.5	160	2009	N	1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	9	10.0	1.6	7.4	192	2009	N	1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2009	N	3				3						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2009	N	4				4						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2009	N	1								1		
Downbound	Domestic	4	701	1519	195.0	35.0	2	9.0	1.5	0.5	192	2009	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2009		2				2						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2009	N	9				9						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2009		2				2						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2009		2				2						
Downbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2009	N	1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2009	N	1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2009	N	3				3						
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2009	N	2				2						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2009		1				1						
Downbound	Domestic	4	1013	1508	195.0	35.0	2	8.7	1.7	0.3	211	2009	N	1								1		
Downbound	Domestic	3	000133	444	110.0	32.0	8	10.3	8.0	0.0	450	2009		2		2								
Downbound	Domestic	4	848	1524	195.0	35.0	2	9.0	1.6	0.4	185	2009	N	5								5		
Downbound	Domestic	4	713	1550	200.0	35.0	2	9.0	1.2	0.8	190	2009	N	1								1		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2009	N	1								1		
Downbound	Domestic	4	971	1557	200.0	35.0	8	9.0	1.7	6.3	193	2009	N	2				2						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2009		5				5						
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2009		1				1						
Downbound	Domestic	4	823	2187	200.0	35.0	9	12.0	1.7	7.3	240	2009		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2009	N	7				7						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2009	N	2				2						
Downbound	Domestic	4	764	1990	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	1				1						
Downbound	Domestic	4	833	2739	200.0	35.0	9	12.0	1.6	7.4	250	2009	N	1				1						
Downbound	Domestic	3	133	999999	75.0	28.0	2	8.0	2.0	0.0	380	2009		1		1								
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2009	N	1				1						
Downbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2009		1				1						
Downbound	Domestic	4	623	1732	200.0	35.0	8	9.6	1.7	6.3	208	2009	N	1				1						
Downbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2009	N	5										5
Downbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2009		12		12								
Downbound	Domestic	4	908	1654	200.0	35.0	2	9.0	1.4	0.6	204	2009	N	4								4		
Downbound	Domestic	4	85	401	110.0	26.0	2	6.5	1.2	0.8	70	2009	N	1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	2.0	0.0	9999	2009	N	1								1		
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2009		4					4					
Downbound	Domestic	5	001754	4211	297.5	54.0	7	11.0	2.0	5.0	200	2009	N	1					1					
Downbound	Domestic	4	747	1500	195.0	35.0	8	9.0	1.6	6.4	136	2009	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2009	N	2				2						
Downbound	Domestic	4	687	1586	195.0	35.0	9	9.0	1.4	7.6	148	2009		1				1						
Downbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2009		2				2						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2009	N	2				2						
Downbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2009	N	2				2						
Downbound	Domestic	4	764	1910	200.0	35.0	8	9.0	2.0	6.0	195	2009		1				1						
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2009	N	1				1						
Downbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2009	N	1				1						
Downbound	Domestic	3	209	999999	100.0	30.0	8	8.0	8.0	0.0	460	2009		1		1								
Downbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2009		1		1								
Downbound	Domestic	4	729	1883	200.0	35.0	2	10.0	1.5	0.5	176	2009	N	1								1		
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2009	N	6				6						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2009	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2009	N	3				3						
Downbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2009	N	3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2009		5				5						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2009		1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2009	N	3				3						
Downbound	Domestic	5	800	1701	195.0	35.0	9	10.0	2.0	7.0	170	2009	N	2					2					
Downbound	Domestic	4	681	1500	195.0	35.0	8	9.0	1.6	6.4	190	2009	N	1				1						
Downbound	Domestic	4	872	2000	200.0	35.0	7	9.0	1.4	5.6	160	2009	N	1				1						
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2009	N	1				1						
Downbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2009		1										1
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2009		27		27								
Downbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2009		1		1								
Downbound	Domestic	4	933	1527	195.0	35.0	2	9.0	1.5	0.5	199	2009	N	3								3		
Downbound	Domestic	4	694	1728	195.0	35.0	2	10.0	1.6	0.4	176	2009	N	3								3		
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2009		12					12					
Downbound	Domestic	4	000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2009		1				1						
Downbound	Domestic	4	745	1494	195.0	35.0	9	9.0	1.6	7.4	166	2009	N	3				3						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2009		1				1						
Downbound	Domestic	4	705	9100	200.0	35.0	1	10.0	1.4	-0.4	208	2009	N	2								2		
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2009	N	1				1						
Downbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2009	N	1				1						
Downbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2009	N	1				1						
Downbound	Domestic	5	2147	3400	297.5	54.0	2	10.0	2.0	0.0	180	2009		1										1
Downbound	Domestic	5	805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2009	N	2										2
Downbound	Domestic	4	000705	1650	200.0	35.0	2	11.0	1.5	0.5	208	2009	N	1								1		
Downbound	Domestic	5	001597	3844	300.0	54.0	9	10.0	0.6	8.4	280	2009		3					3					
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	214	2009		1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	180	2009		1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2009	N	3				3						
Downbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	149	2009	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	6	9.0	1.6	4.4	170	2009	N	1				1						
Downbound	Domestic	4	000687	1534	200.0	35.0	9	9.0	1.6	7.4	160	2009	N	1				1						
Downbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2009	N	1				1						
Downbound	Domestic	4	000764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2009	N	1				1						
Downbound	Domestic	5	741	1701	195.0	35.0	9	10.0	2.0	7.0	170	2009	N	1					1					
Downbound	Domestic	4	705	1687	200.0	35.0	8	9.0	1.3	6.7	146	2009	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2009	N	1				1						
Downbound	Domestic	3	000334	491	140.0	38.0	9	9.6	8.6	0.4	430	2009		1		1								
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2009	N	2								2		
Downbound	Domestic	4	000944	1455	200.0	35.0	2	10.0	1.6	0.4	180	2009	N	1								1		
Downbound	Domestic	4	862	1725	195.0	35.0	2	10.0	2.0	0.0	192	2009	N	2								2		
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2009	N	6								6		
Downbound	Domestic	5	000745	2292	195.0	35.0	2	15.0	3.0	-1.0	9999	2009	N	1										1
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2009	N	2				2						
Downbound	Domestic	4	688	1677	200.0	35.0	8	9.0	1.5	6.5	210	2009		1				1						
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2009	N	16				16						
Downbound	Domestic	4	682	1722	195.0	35.0	1	10.0	1.6	-0.6	204	2009	N	4								4		
Downbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2009	N	3				3						
Downbound	Domestic	4	747	1500	195.0	35.0	9	9.0	1.6	7.4	136	2009	N	3				3						
Downbound	Domestic	4	823	2469	200.0	35.0	13	13.0	1.8	11.2	230	2009	N	1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2009	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2009		6										6
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2009	N	2								2		
Downbound	Domestic	3	158	0	85.0	30.0	8	9.5	7.5	0.5	320	2009		1		1								
Downbound	Domestic	5	855	1490	195.0	35.0	2	9.0	2.0	0.0	170	2009		1										1
Downbound	Domestic	4	705	1880	200.0	35.0	9	10.0	1.4	7.6	140	2009		1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2009	N	1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2009		1				1						
Downbound	Domestic	5	837	1470	195.0	35.0	9	9.0	1.9	7.1	170	2009		1					1					
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2009		13								13		
Downbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2009		1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2009	N	1				1						
Downbound	Domestic	4	1223	1556	200.0	35.0	8	8.9	1.8	6.2	190	2009	N	1				1						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	168	2009	N	1				1						
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	149	2009		1				1						
Downbound	Domestic	4	676	1491	195.0	35.0	9	9.0	1.6	7.4	193	2009	N	2				2						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2009	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic		4 000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2009	N	2				2						
Downbound	Domestic		5 822	1500	195.1	35.1	9	9.0	2.0	7.0	170	2009	N	2						2				
Downbound	Domestic		4 000764	1648	200.0	35.0	13	13.0	1.5	11.5	208	2009	N	1				1						
Downbound	Domestic		4 000705	1645	200.0	35.0	2	13.0	1.6	0.4	230	2009		1								1		
Downbound	Domestic		4 688	1495	195.0	35.0	2	9.0	1.9	0.1	169	2009	N	1								1		
Downbound	Domestic		4 823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2009	N	1								1		
Downbound	Domestic		5 1876	3300	297.5	54.0	10	9.6	1.5	8.5	180	2009		11						11				
Downbound	Domestic		4 687	1633	195.0	35.0	9	9.0	1.4	7.6	133	2009	N	3				3						
Downbound	Domestic		4 764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2009	N	14				14						
Downbound	Domestic		4 687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2009	N	1				1						
Downbound	Domestic		4 696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2009	N	1				1						
Downbound	Domestic		4 680	2680	200.0	35.0	8	11.0	1.5	6.5	208	2009	N	1				1						
Downbound	Domestic		4 764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2009		1				1						
Downbound	Domestic		4 546	1900	200.0	35.0	2	9.0	2.0	0.0	190	2009	N	1								1		
Downbound	Domestic		4 971	1637	200.0	35.0	9	9.0	1.3	7.7	193	2009	N	1				1						
Downbound	Domestic		4 764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2009	N	2				2						
Downbound	Domestic		4 706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2009	N	3				3						
Downbound	Domestic		4 764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2009	N	1				1						
Downbound	Domestic		4 000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2009	N	7				7						
Downbound	Domestic		4 917	1650	200.0	35.0	8	9.0	1.5	6.5	190	2009	N	1				1						
Downbound	Domestic		4 764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2009	N	1				1						
Downbound	Domestic		4 694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2009	N	1				1						
Downbound	Domestic		4 929	1633	200.0	35.0	8	9.0	1.6	6.4	180	2009	N	1				1						
Downbound	Domestic		4 910	1449	195.0	35.0	2	9.0	1.9	0.1	203	2009	N	1								1		
Downbound	Domestic		5 1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2009		12						12				
Downbound	Domestic		4 823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2009		1				1						
Downbound	Domestic		4 705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2009	N	1				1						
Downbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2009	N	8				8						
Downbound	Domestic		4 705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2009	N	1				1						
Downbound	Domestic		4 985	1520	195.0	35.0	9	9.0	1.6	7.4	160	2009	N	1				1						
Downbound	Domestic		4 856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2009	N	1				1						
Downbound	Domestic		3 185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2009		3		3								
Downbound	Domestic		4 942	1902	195.0	35.0	1	11.0	1.8	-0.8	180	2009	N	2								2		
Downbound	Domestic		5 788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2009	N	1										1
Downbound	Domestic		4 700	1511	195.0	35.0	2	9.0	1.6	0.4	204	2009	N	1								1		
Downbound	Domestic		4 823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2009		1				1						
Downbound	Domestic		4 823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2009	N	2				2						
Downbound	Domestic		4 705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2009	N	1				1						
Downbound	Domestic		4 745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2009		3				3						
Downbound	Domestic		4 000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2009	N	1				1						
Downbound	Domestic		4 902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2009		1				1						
Downbound	Domestic		5 000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2009	N	1										1
Downbound	Domestic		4 764	1557	200.0	35.0	2	9.0	1.5	0.5	135	2009	N	2								2		
Downbound	Domestic		4 000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2009	N	1								1		
Downbound	Domestic		5 749	1309	195.0	35.0	2	9.1	2.0	0.0	165	2009	N	1										1
Downbound	Domestic		4 823	1750	200.0	35.0	8	10.0	1.6	6.4	165	2009		1				1						
Downbound	Domestic		4 687	1728	195.0	35.0	8	10.0	1.4	6.6	146	2009		1				1						
Downbound	Domestic		4 000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2009		3				3						
Downbound	Domestic		4 957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2009	N	1				1						
Downbound	Domestic		5 1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2009		1										1
Downbound	Domestic		3 258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2009		5		5								
Downbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2009		6				6						
Downbound	Domestic		5 000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2009	N	3										3
Downbound	Domestic		4 764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	2				2						
Downbound	Domestic		4 922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2009		2				2						
Downbound	Domestic		4 000782	1990	200.0	35.0	9	9.0	1.5	7.5	170	2009	N	1				1						
Downbound	Domestic		4 700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2009	N	8				8						
Downbound	Domestic		4 543	1497	195.0	35.0	9	9.0	1.6	7.4	183	2009		2				2						
Downbound	Domestic		4 000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2009		1				1						
Downbound	Domestic		4 705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2009	N	1				1						
Downbound	Domestic		5 000823	2469	200.0	35.0	8	15.0	3.0	5.0	9999	2009	N	1						1				
Downbound	Domestic		4 783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2009	N	2				2						
Downbound	Domestic		3 199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2009		48		48								
Downbound	Domestic		4 700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2009	N	4								4		
Downbound	Domestic		4 764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2009	N	4								4		
Downbound	Domestic		4 950	1500	200.0	35.0	2	9.0	1.6	0.4	149	2009	N	1								1		
Downbound	Domestic		4 1223	1651	200.0	35.0	2	11.0	1.5	0.5	145	2009	N	1								1		
Downbound	Domestic		5 1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2009		10						10				
Downbound	Domestic		5 001754	3390	297.5	54.0	9	11.0	2.0	7.0	180	2009		4						4				
Downbound	Domestic		4 705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2009	N	6				6						
Downbound	Domestic		4 856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2009	N	2				2						
Downbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2009		2				2						
Downbound	Domestic		4 764	1546	200.0	35.0	9	9.0	1.5	7.5	170	2009		1				1						
Downbound	Domestic		4 799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2009		1				1						
Downbound	Domestic		4 000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2009	N	3				3						
Downbound	Domestic		4 000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2009	N	2				2						
Downbound	Domestic		4 687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2009	N	1				1						
Downbound	Domestic		4 856	1701	195.0	35.0	9	10.0	1.7	7.3	210	2009	N	1				1						
Downbound	Domestic		3 266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2009		4		4								
Downbound	Domestic		4 888	1529	195.0	35.0	2	9.0	1.5	0.5	160	2009		9								9		
Downbound	Domestic		4 700	1511	195.0	35.0	2	9.0	1.6	0.4	160	2009		1								1		
Downbound	Domestic		3 000323	999999	140.0	42.0	6	9.5	5.8	0.2	428	2009		1		1								
Downbound	Domestic		4 763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2009	N	1								1		
Downbound	Domestic		4 687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2009	N	2								2		
Downbound	Domestic		3 000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2009		5		5								
Downbound	Domestic		4 706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2009		3				3						
Downbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2009		2				2						
Downbound	Domestic		4 000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2009		2				2						
Downbound	Domestic		4 000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2009		3				3						
Downbound	Domestic		4 745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2009		12				12						
Downbound	Domestic		4 705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2009		2				2						
Downbound	Domestic		4 764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2009	N	1				1						
Downbound	Domestic		4 698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2009	N	1				1						
Downbound	Domestic		5 750	1490	195.0	35.0	9	9.0	2.0	7.0	170	2009	N	2						2				
Downbound	Domestic		4 908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2009	N	1				1						
Downbound	Domestic		4 000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2009		2				2						
Downbound	Domestic		4 705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2009	N	1				1						
Downbound	Domestic		4 764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2009	N	1				1						
Downbound	Domestic		3 185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2009		21		21								
Downbound	Domestic		4 745	1914	195.0	35.0	1	11.0	1.7	-0.7	223	2009	N	1								1		
Downbound	Domestic		4 000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2009	N	2								2		
Downbound	Domestic		4 696	1643	200.0	35.0	2	9.0	1.5	0.5	192	2009	N	1								1		
Downbound	Domestic		5 1521	3600	294.5	54.0	9	10.0	2.0	7.0	170	2009		6						6				
Downbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	194	2009		1				1						
Downbound	Domestic		4 823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2009	N	2				2						
Downbound	Domestic		4 687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2009	N	3				3						
Downbound	Domestic		4 705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2009	N	2				2						
Downbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2009	N	1				1						
Downbound	Domestic		4 862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2009	N	1				1						
Downbound	Domestic		4 000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2009	N	2				2						
Downbound	Domestic		4 994	2000	195.0	35.0	8	9.0	1.3	6.7	189	2009	N	1				1						
Downbound	Domestic		4 564	1619	200.0	35.0	9	9.0	1.6	7.4	160	2009	N	1				1						
Downbound	Domestic		4 000764	1862	200.0	35.0	3	10.0	1.5	1.5	191	2009		3								3		
Downbound	Domestic		4 000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2009		4								4		
Downbound	Domestic		4 000970	1557	200.0	35.0	3	9.0	1.7	1.3	193	2009	N	1								1		
Downbound	Domestic		4 000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2009		7				7						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2009		4						4				
Downbound	Domestic	4	688	1519	195.0	35.0	9	9.0	1.6	7.4	160	2009	N	2				2						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2009	N	6				6						
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2009	N	2				2						
Downbound	Domestic	5	1632	4744	300.0	54.0	9	11.6	2.3	6.7	189	2009	N	1						1				
Downbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2009	N	2				2						
Downbound	Domestic	4	764	2187	200.0	35.0	8	11.0	1.7	6.3	240	2009		1				1						
Downbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2009		1										1
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	120	2009		2										2
Downbound	Domestic	5	001754	3390	297.5	54.0	9	12.0	2.0	7.0	180	2009		2						2				
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2009	N	1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	9	9.0	1.7	7.3	163	2009	N	3				3						
Downbound	Domestic	4	000687	1728	195.0	35.0	1	10.0	1.5	-0.5	206	2009	N	1								1		
Downbound	Domestic	4	745	1510	195.0	35.0	8	9.0	1.6	6.4	155	2009	N	1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2009	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2009	N	1				1						
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2009	N	2								2		
Downbound	Domestic	4	994	1475	195.0	35.0	2	9.0	1.6	0.4	189	2009	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2009	N	2								2		
Downbound	Domestic	5	773	1428	195.1	35.1	2	8.7	1.7	0.3	170	2009	N	1										1
Downbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2009		1				1						
Downbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	119	2009	N	1				1						
Downbound	Domestic	4	706	1659	200.0	35.0	9	9.0	1.5	7.5	160	2009	N	2				2						
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	160	2009	N	1				1						
Downbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2009		1				1						
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	1.8	0.2	165	2009	N	1										1
Downbound	Domestic	4	687	1494	195.0	35.0	2	9.0	1.7	0.3	165	2009	N	1								1		
Downbound	Domestic	4	748	1642	200.0	35.0	2	9.0	1.6	0.4	196	2009	N	2								2		
Upbound	Domestic	4	848	1524	195.0	35.0	8	9.0	1.6	6.4	185	2010	N	3			3							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2010	N	6			6							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2010		2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2010		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	12			12							
Upbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2010	N	4			4							
Upbound	Domestic	4	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	1							1			
Upbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	185	2010	N	1			1							
Upbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2010	N	1			1							
Upbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2010		28		28								
Upbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2010	N	1									1	
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2010		10			10							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2010	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2010	N	4			4							
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2010	N	19			19							
Upbound	Domestic	4	685	1550	195.0	35.0	8	9.0	1.5	6.5	190	2010	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2010	N	1			1							
Upbound	Domestic	4	687	1501	195.0	35.0	10	12.0	1.5	8.5	186	2010	N	1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2010	N	3			3							
Upbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2010	N	1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	7	9.0	1.5	5.5	225	2010	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	5			5							
Upbound	Domestic	4	705	1663	200.0	35.0	9	9.0	1.5	7.5	223	2010	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	2	10.0	1.5	0.5	206	2010		3							3			
Upbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2010	N	1							1			
Upbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2010	N	1							1			
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2010	N	5			5							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2010		1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2010	N	5			5							
Upbound	Domestic	4	823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2010	N	2			2							
Upbound	Domestic	4	000745	1705	195.0	35.0	2	10.0	1.6	0.4	139	2010	N	2							2			
Upbound	Domestic	4	687	2061	195.0	35.0	2	9.0	1.5	0.5	160	2010	N	1							1			
Upbound	Domestic	4	711	1527	195.0	35.0	2	9.0	1.4	0.6	145	2010	N	1							1			
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2010	N	4			4							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2010		3			3							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2010		3			3							
Upbound	Domestic	4	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	6							6			
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2010		1			1							
Upbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2010	N	1			1							
Upbound	Domestic	4	687	1510	195.0	35.0	9	9.0	1.6	7.4	119	2010	N	1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2010	N	2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	7	9.0	1.8	5.2	189	2010	N	1			1							
Upbound	Domestic	4	2500	4500	192.0	37.0	5	18.0	3.0	2.0	1000	2010		4							4			
Upbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	170	2010	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2010	N	1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	2	11.0	1.8	0.2	210	2010		2							2			
Upbound	Domestic	4	687	1505	195.0	35.0	2	9.0	1.8	0.2	200	2010	N	1							1			
Upbound	Domestic	4	000764	1650	200.0	35.0	2	11.0	1.5	0.5	208	2010	N	1							1			
Upbound	Domestic	4	705	1651	200.0	35.0	2	9.0	2.0	0.0	196	2010	N	2							2			
Upbound	Domestic	4	1020	1600	200.0	35.0	2	9.0	1.4	0.6	193	2010	N	1							1			
Upbound	Domestic	4	800	1699	195.0	35.0	7	10.0	1.8	5.2	164	2010		1			1							
Upbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2010	N	13			13							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2010	N	5			5							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2010	N	4			4							
Upbound	Domestic	4	000764	1534	200.0	35.0	7	9.0	1.7	5.3	199	2010	N	2			2							
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2010		9									9	
Upbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2010		5		5								
Upbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2010	N	3							3			
Upbound	Domestic	4	1039	1623	200.0	35.0	2	9.0	1.7	0.3	146	2010	N	2							2			
Upbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2010	N	1							1			
Upbound	Domestic	4	705	1687	200.0	35.0	2	9.0	1.3	0.7	146	2010	N	1							1			
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2010		3			3							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2010		3			3							
Upbound	Domestic	5	795	1475	195.0	35.0	9	9.0	1.8	7.2	178	2010	N	2					2					
Upbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	210	2010	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2010	N	1			1							
Upbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	119	2010	N	2			2							
Upbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2010	N	3			3							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2010	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.5	0.5	205	2010		3							3			
Upbound	Domestic	5	002424	2213	295.0	50.0	2	9.0	2.5	-0.5	280	2010	N	1									1	
Upbound	Domestic	4	872	2000	200.0	35.0	2	9.0	1.4	0.6	160	2010	N	2							2			
Upbound	Domestic	4	705	1885	200.0	35.0	2	10.0	1.4	0.6	208	2010		2							2			
Upbound	Domestic	4	764	1635	200.0	35.0	2	9.0	1.5	0.5	165	2010	N	1							1			
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2010		2			2							
Upbound	Domestic	4	929	2010	200.0	35.0	9	10.6	1.3	7.7	220	2010	N	2			2							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2010	N	3			3							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2010	N	28			28							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2010		1			1							
Upbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	2			2							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2010		1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	6	10.0	1.5	4.5	206	2010		1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	6	9.0	1.7	4.3	206	2010		1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2010	N	1			1							
Upbound	Domestic	5	805	1433	195.0	35.0	8	9.0	1.1	6.9	166	2010	N	2					2					
Upbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2010	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	2	11.0	1.7	0.3	224	2010		2							2			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2010	N	1							1			
Upbound	Domestic	5	001841	3200	290.0	54.0	2	10.0	2.0	0.0	220	2010		1									1	
Upbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	209	2010	N	1							1			
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2010	N	8			8							
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2010	N	2			2							
Upbound	Domestic	4	933	1658	200.0	35.0	7	9.0	1.6	5.4	177	2010	N	2			2							
Upbound	Domestic	4	000724	1532	200.0	35.0	7	9.0	1.7	5.3	160	2010	N	1			1							
Upbound	Domestic	4	771	1660	200.0	35.0	9	9.0	1.4	7.6	218	2010	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	234	2010		1			1							
Upbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2010	N	2			2							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2010	N	1							1			
Upbound	Domestic	4	687	1724	195.0	35.0	2	10.0	1.5	0.5	206	2010		2							2			
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2010	N	1							1			
Upbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2010	N	1							1			
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2010		6									6	
Upbound	Domestic	4	745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2010	N	2							2			
Upbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	205	2010	N	1							1			
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2010		1			1							
Upbound	Domestic	5	855	1401	195.0	35.0	8	9.0	2.0	6.0	140	2010		1					1					
Upbound	Domestic	4	764	1800	200.0	35.0	6	12.0	1.8	4.2	160	2010	N	1			1							
Upbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2010	N	2			2							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2010	N	2			2							
Upbound	Domestic	4	000745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2010	N	1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	7	9.0	1.3	5.7	145	2010	N	1			1							
Upbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2010		1			1							
Upbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2010	N	1			1							
Upbound	Domestic	4	000764	1611	200.0	35.0	11	9.0	3.0	8.0	9999	2010	N	1			1							
Upbound	Domestic	5	834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2010		5									5	
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2010		5		5								
Upbound	Domestic	5	2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2010	N	1									1	
Upbound	Domestic	4	1024	1423	195.0	35.0	2	9.0	1.9	0.1	212	2010	N	1							1			
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2010		1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2010	N	1			1							
Upbound	Domestic	4	710	1654	200.0	35.0	7	9.0	1.5	5.5	147	2010	N	1			1							
Upbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2010	N	1			1							
Upbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	183	2010	N	1			1							
Upbound	Domestic	4	618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2010		1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2010	N	2							2			
Upbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2010	N	1									1	
Upbound	Domestic	4	889	1464	195.1	35.2	2	9.0	1.8	0.2	194	2010	N	1							1			
Upbound	Domestic	4	000764	1574	200.0	35.0	3	9.0	3.0	0.0	9999	2010	N	1							1			
Upbound	Domestic	4	966	1600	200.0	35.0	2	9.0	1.4	0.6	193	2010	N	1							1			
Upbound	Domestic	5	855	1490	195.0	35.0	10	9.5	2.0	8.0	170	2010		1					1					
Upbound	Domestic	4	764	1956	200.0	35.0	5	9.0	2.0	3.0	130	2010	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.1	8	10.0	1.6	6.4	210	2010	N	1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2010		1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2010	N	2			2							
Upbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2010	N	2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2010	N	3							3			
Upbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2010		1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2010		29		29								
Upbound	Domestic	3	108	999999	58.0	22.0	7	7.0	6.5	0.5	340	2010		1		1								
Upbound	Domestic	5	1861	5250	356.0	54.0	2	13.0	2.0	0.0	220	2010		1									1	
Upbound	Domestic	4	000695	1520	195.0	35.0	2	9.0	1.6	0.4	179	2010	N	1							1			
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2010	N	3			3							
Upbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2010	N	4			4							
Upbound	Domestic	4	745	2345	195.0	35.0	6	9.0	1.6	4.4	209	2010	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	13	10.0	1.5	11.5	186	2010	N	2			2							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2010		1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.5	6.5	217	2010	N	1			1							
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2010	N	12					12					
Upbound	Domestic	4	823	1662	200.0	35.0	5	9.0	1.4	3.6	235	2010	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	170	2010	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	7	10.0	1.4	5.6	205	2010		2			2							
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2010		2			2							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2010		1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	5	9.0	1.6	3.4	139	2010	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	10.0	3.0	5.0	170	2010		1			1							
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2010		3		3								
Upbound	Domestic	4	823	1641	200.0	35.0	2	9.0	1.4	0.6	160	2010	N	3							3			
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2010	N	20							20			
Upbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2010	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2010		3			3							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2010		5			5							
Upbound	Domestic	4	764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2010	N	2			2							
Upbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2010	N	2			2							
Upbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2010	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2010	N	3			3							
Upbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2010	N	1			1							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	11			11							
Upbound	Domestic	4	764	1875	200.0	35.0	7	10.0	1.7	5.3	163	2010	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	7	10.5	1.7	5.3	180	2010	N	1			1							
Upbound	Domestic	4	687	1633	195.0	35.0	9	9.0	1.4	7.6	133	2010	N	1			1							
Upbound	Domestic	4	705	1640	200.0	35.0	2	9.0	1.5	0.5	165	2010	N	1							1			
Upbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2010	N	3							3			
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2010		2									2	
Upbound	Domestic	4	000448	150	200.0	35.0	7	7.0	2.5	4.5	400	2010		9			9							
Upbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2010	N	1			1							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2010	N	5			5							
Upbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2010	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2010		1			1							
Upbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2010	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2010	N	1			1							
Upbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	186	2010		1			1							
Upbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2010		1			1							
Upbound	Domestic	4	747	1500	195.0	35.0	2	9.0	1.6	0.4	136	2010	N	7							7			
Upbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2010	N	2							2			
Upbound	Domestic	3	000133	444	110.0	32.0	8	10.3	8.0	0.0	450	2010		1		1								
Upbound	Domestic	4	764	2200	200.0	35.0	2	8.0	2.0	0.0	165	2010		1							1			
Upbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2010	N	1							1			
Upbound	Domestic	4	696	1648	200.0	35.0	2	9.0	1.6	0.4	160	2010	N	1							1			
Upbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2010	N	2							2			
Upbound	Domestic	4	950	1658	200.0	35.0	2	9.0	1.5	0.5	180	2010	N	1							1			
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2010		13			13							
Upbound	Domestic	4	000764	1956	200.0	35.0	9	9.0	2.0	7.0	196	2010		28			28							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2010	N	5							5			
Upbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	165	2010		1							1			
Upbound	Domestic	4	710	1654	200.0	35.0	2	10.0	2.0	0.0	147	2010	N	1							1			
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2010		1									1	
Upbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2010	N	1							1			
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	130	2010	N	1							1			
Upbound	Domestic	3	48	999999	45.5	20.1	9	8.3	8.3	0.7	430	2010		2		2								
Upbound	Domestic	5	1816	5450	356.0	54.0	2	13.0	2.0	0.0	220	2010		1									1	
Upbound	Domestic	4	000964	1642	200.0	35.0	2	9.0	1.5	0.5	145	2010	N	1							1			
Upbound	Domestic	4	910	1546	195.1	35.1	2	9.0	1.5	0.5	145	2010	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	1019	1449	195.0	35.0	2	9.0	1.9	0.1	203	2010	N	1							1			
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2010	N	7			7							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2010	N	4			4							
Upbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2010	N	2			2							
Upbound	Domestic	4	687	2061	195.0	35.0	6	9.0	1.5	4.5	160	2010	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2010		2			2							
Upbound	Domestic	4	975	1480	195.0	35.0	8	9.0	1.6	6.4	146	2010	N	1			1							
Upbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	169	2010	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2010	N	3			3							
Upbound	Domestic	4	701	1519	195.0	35.0	8	9.0	1.5	6.5	192	2010	N	1			1							
Upbound	Domestic	4	687	1515	195.0	35.0	8	9.0	1.5	6.5	187	2010	N	1			1							
Upbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	11	9.0	3.0	8.0	9999	2010	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2010	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	2	9.0	1.5	0.5	160	2010	N	1							1			
Upbound	Domestic	4	764	2098	200.0	35.0	2	11.0	1.5	0.5	218	2010		5							5			
Upbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	208	2010	N	1							1			
Upbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2010	N	4									4	
Upbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2010		5		5								
Upbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2010	N	3			3							
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2010	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2010	N	1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2010	N	2			2							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	1.5	0.5	180	2010		4									4	
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2010		30		30								
Upbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2010	N	1							1			
Upbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2010	N	2							2			
Upbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2010	N	2							2			
Upbound	Domestic	4	687	1534	195.0	35.0	2	9.0	1.5	0.5	135	2010	N	1							1			
Upbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2010	N	1									1	
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2010	N	1									1	
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2010	N	4			4							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2010		3			3							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2010		3			3							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2010	N	2							2			
Upbound	Domestic	4	823	2733	200.0	35.0	8	14.0	1.6	6.4	211	2010	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2010	N	1			1							
Upbound	Domestic	4	705	1570	200.0	35.0	8	9.0	1.5	6.5	150	2010	N	2			2							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	10.0	1.8	7.2	170	2010		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2010	N	1			1							
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2010		4									4	
Upbound	Domestic	4	950	1650	200.0	35.0	2	9.0	1.5	0.5	190	2010	N	1							1			
Upbound	Domestic	4	705	1660	200.0	35.0	2	9.0	1.4	0.6	218	2010	N	1							1			
Upbound	Domestic	4	939	1520	195.0	35.0	2	9.0	1.6	0.4	160	2010	N	1							1			
Upbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2010		1		1								
Upbound	Domestic	5	001619	3142	297.0	54.0	2	10.0	0.6	1.4	280	2010		1									1	
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2010	N	9			9							
Upbound	Domestic	4	705	1650	200.0	35.0	10	12.0	1.5	8.5	195	2010	N	2			2							
Upbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2010	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2010	N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	7	9.0	1.6	5.4	143	2010	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	9	10.0	2.0	7.0	9999	2010	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2010	N	1							1			
Upbound	Domestic	4	922	1842	200.0	35.0	2	10.0	1.8	0.2	210	2010	N	1							1			
Upbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2010		1		1								
Upbound	Domestic	4	917	1650	200.0	35.0	2	9.0	1.5	0.5	190	2010	N	1							1			
Upbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2010		3		3								
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.6	0.4	190	2010	N	1							1			
Upbound	Domestic	4	000181	1700	120.0	30.0	6	6.0	6.0	0.0	370	2010		9							9			
Upbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	186	2010	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2010		2			2							
Upbound	Domestic	4	687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2010	N	1			1							
Upbound	Domestic	5	835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2010	N	2					2					
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2010	N	2			2							
Upbound	Domestic	4	000706	1557	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	1			1							
Upbound	Domestic	4	000764	1615	200.0	35.0	9	12.0	1.8	7.2	170	2010		1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2010		1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	160	2010	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2010		1			1							
Upbound	Domestic	4	862	1736	195.0	35.0	9	10.0	1.5	7.5	192	2010	N	1			1							
Upbound	Domestic	3	131	999999	75.0	27.2	7	9.6	8.0	-1.0	315	2010		1		1								
Upbound	Domestic	4	676	1500	195.0	35.0	2	9.0	1.6	0.4	160	2010	N	1							1			
Upbound	Domestic	4	848	1523	195.0	35.0	2	9.0	1.5	0.5	145	2010	N	1							1			
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2010		1			1							
Upbound	Domestic	4	000764	1578	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	1			1							
Upbound	Domestic	4	705	2002	200.0	35.0	7	9.0	1.5	5.5	190	2010	N	1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2010		2			2							
Upbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2010		1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2010		13			13							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2010	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2010	N	2			2							
Upbound	Domestic	4	862	1725	195.0	35.0	8	10.0	2.0	6.0	192	2010	N	2			2							
Upbound	Domestic	4	823	1627	200.0	35.0	12	13.0	1.8	10.2	230	2010	N	1			1							
Upbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2010	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	7	9.0	1.9	5.1	205	2010	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2010	N	2			2							
Upbound	Domestic	4	823	2345	200.0	35.0	8	12.0	1.7	6.3	223	2010		1			1							
Upbound	Domestic	4	694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2010	N	1			1							
Upbound	Domestic	4	705	1653	200.0	35.0	9	9.0	1.6	7.4	160	2010	N	1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2010		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	186	2010	N	1							1			
Upbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	208	2010	N	1							1			
Upbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2010	N	2							2			
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2010	N	2							2			
Upbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2010	N	1							1			
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2010		6			6							
Upbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2010	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	13	11.0	1.8	11.2	230	2010	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2010	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2010	N	14			14							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	1.6	6.4	220	2010	N	1			1							
Upbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2010		1			1							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2010	N	1			1							
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2010		20		20								
Upbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	235	2010	N	2							2			
Upbound	Domestic	4	85	401	110.0	26.0	2	6.5	1.2	0.8	70	2010	N	1							1			
Upbound	Domestic	4	975	1449	195.0	35.0	2	9.0	1.9	0.1	203	2010	N	1							1			
Upbound	Domestic	4	000764	1533	200.0	35.0	9	9.0	1.6	7.4	230	2010	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2010	N	3			3							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2010	N	6			6							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2010	N	2			2							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2010		2			2							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	2			2							
Upbound	Domestic	4	862	1539	195.0	35.0	9	9.0	1.5	7.5	192	2010	N	1			1							
Upbound	Domestic	4	000764	1633	200.0	35.0	2	9.0	1.6	0.4	225	2010	N	3							3			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.5	7.5	190	2010	N	1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	1			1							
Upbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2010	N	1			1							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	1			1							
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2010		2									2	
Upbound	Domestic	4	000719	1665	200.0	35.0	2	9.0	2.0	0.0	130	2010		1							1			
Upbound	Domestic	4	705	2300	200.0	35.0	2	9.0	1.4	0.6	160	2010	N	1							1			
Upbound	Domestic	4	705	1652	200.0	35.0	2	9.0	1.4	0.6	194	2010	N	1							1			
Upbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2010	N	1							1			
Upbound	Domestic	4	687	1633	195.0	35.0	8	9.0	1.4	6.6	133	2010	N	4			4							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2010	N	15			15							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2010	N	2			2							
Upbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	5			5							
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2010		5			5							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2010		4			4							
Upbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2010	N	3			3							
Upbound	Domestic	5	788	1439	195.0	35.0	9	9.0	2.0	7.0	165	2010	N	3					3					
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2010		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2010	N	5			5							
Upbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2010	N	8			8							
Upbound	Domestic	4	688	1498	195.0	35.0	8	9.0	1.9	6.1	168	2010	N	1			1							
Upbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	2.0	10.0	9999	2010	N	1			1							
Upbound	Domestic	4	834	1500	195.0	35.0	8	10.0	1.7	6.3	191	2010	N	1			1							
Upbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2010	N	1			1							
Upbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2010	N	1			1							
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2010		35		35								
Upbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.5	0.5	149	2010	N	2							2			
Upbound	Domestic	4	000764	1568	200.0	35.0	2	9.0	1.6	0.4	204	2010	N	1							1			
Upbound	Domestic	4	764	1854	200.0	35.0	2	10.0	1.6	0.4	224	2010	N	1							1			
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2010	N	15			15							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2010	N	3			3							
Upbound	Domestic	4	764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2010	N	2			2							
Upbound	Domestic	5	773	1428	195.1	35.1	8	8.7	1.7	6.3	170	2010	N	1					1					
Upbound	Domestic	4	823	1535	200.0	35.0	8	9.0	1.7	6.3	260	2010	N	1			1							
Upbound	Domestic	4	764	1865	200.0	35.0	12	12.0	1.5	10.5	208	2010	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2010	N	1			1							
Upbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2010	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	6	10.0	1.5	4.5	206	2010		1			1							
Upbound	Domestic	4	000764	1635	200.0	35.0	8	9.0	1.4	6.6	215	2010	N	1			1							
Upbound	Domestic	4	966	1642	200.0	35.0	8	9.0	1.5	6.5	193	2010	N	1			1							
Upbound	Domestic	4	687	1468	195.0	35.0	2	9.0	1.9	0.1	173	2010	N	1							1			
Upbound	Domestic	4	543	1497	195.0	35.0	2	9.0	1.6	0.4	183	2010	N	1							1			
Upbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	3							3			
Upbound	Domestic	4	000764	1648	200.0	35.0	13	13.0	1.5	11.5	208	2010	N	1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2010		16			16							
Upbound	Domestic	5	890	1590	200.0	35.0	9	9.0	1.9	7.1	142	2010	N	1					1					
Upbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2010	N	1			1							
Upbound	Domestic	5	001633	3860	300.0	54.0	2	10.0	2.0	0.0	189	2010	N	1									1	
Upbound	Domestic	4	1009	1636	195.0	35.0	8	9.0	1.6	6.4	193	2010	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2010	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2010	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2010	N	1			1							
Upbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2010	N	4			4							
Upbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.5	6.5	170	2010	N	1			1							
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2010		4		4								
Upbound	Domestic	4	690	1505	195.0	35.0	2	9.0	1.6	0.4	146	2010	N	2							2			
Upbound	Domestic	4	000745	1648	195.0	35.0	2	12.0	1.5	0.5	186	2010	N	1							1			
Upbound	Domestic	4	682	1722	195.0	35.0	2	10.0	1.6	0.4	204	2010		1							1			
Upbound	Domestic	4	687	1514	195.0	35.0	2	9.0	1.5	0.5	206	2010		1							1			
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2010	N	2			2							
Upbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2010	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2010	N	1			1							
Upbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2010	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2010		2					2					
Upbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2010	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2010	N	3							3			
Upbound	Domestic	4	823	1627	200.0	35.0	2	12.0	1.8	0.2	230	2010	N	1							1			
Upbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2010	N	1							1			
Upbound	Domestic	4	823	2469	200.0	35.0	2	14.0	2.0	0.0	191	2010	N	1							1			
Upbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	139	2010	N	1							1			
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.1	6.9	142	2010	N	1					1					
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2010	N	4			4							
Upbound	Domestic	4	745	1504	195.0	35.0	9	9.0	1.6	7.4	166	2010	N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2010	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2010	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2010	N	12			12							
Upbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	1.8	8.2	190	2010		1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2010	N	5							5			
Upbound	Domestic	4	902	1643	200.0	35.0	2	9.6	1.5	0.5	194	2010		1							1			
Upbound	Domestic	4	764	1648	200.0	35.0	2	13.0	1.5	0.5	208	2010	N	1							1			
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2010	N	2			2							
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2010	N	18			18							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2010		3			3							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2010		5			5							
Upbound	Domestic	4	000764	1615	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	1			1							
Upbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2010	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2010	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2010	N	5			5							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2010	N	1					1					
Upbound	Domestic	4	000764	1648	200.0	35.0	10	12.0	2.0	8.0	208	2010		1			1							
Upbound	Domestic	4	000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2010	N	1			1							
Upbound	Domestic	4	802	2110	200.0	35.0	2	12.0	1.8	0.2	234	2010		1							1			
Upbound	Domestic	4	764	1600	200.0	35.0	2	9.0	1.6	0.4	180	2010		1							1			
Upbound	Domestic	4	696	1643	200.1	35.1	2	9.0	1.6	0.4	210	2010	N	4							4			
Upbound	Domestic	4	000764	2200	200.0	35.0	3	10.0	3.0	0.0	9999	2010	N	1							1			
Upbound	Domestic	4	1065	1658	200.0	35.0	2	9.0	1.5	0.5	190	2010	N	1							1			
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2010	N	5			5							
Upbound	Domestic	4	823	2500	200.0	35.0	9	12.0	2.0	7.0	250	2010	N	2			2							
Upbound	Domestic	5	1632	4744	300.0	54.0	9	11.6	2.3	6.7	189	2010	N	1					1					
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2010	N	2			2							
Upbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	183	2010	N	1			1							
Upbound	Domestic	5	001619	3100	297.6	54.0	1	10.0	2.0	-1.0	220	2010		2									2	
Upbound	Domestic	5	1803	2500	295.0	52.0	2	9.0	2.5	-0.5	340	2010		5									5	
Upbound	Domestic	4	706	1659	200.0	35.0	2	9.0	1.5	0.5	160	2010	N	1							1			
Upbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2010		3		3								
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2010		3									3	
Upbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2010	N	1							1			
Upbound	Domestic	4	745	2006	195.0	35.0	2	9.5	1.8	0.2	146	2010	N	1							1			
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2010		4			4							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2010		1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2010	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2010	N	3			3							
Upbound	Domestic	4	705	1660	200.0	35.0	7	9.0	1.3	5.7	213	2010	N	1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2010	N	5			5							
Upbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2010	N	4			4							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2010	N	3			3							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. **OK**

Total Trips = **84400**

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2010	N	1			1							
Upbound	Domestic	5	800	1400	195.0	35.0	9	9.0	1.8	7.2	183	2010	N	1					1					
Upbound	Domestic	4	000764	1592	200.0	35.0	9	9.0	2.0	7.0	9999	2010	N	1			1							
Upbound	Domestic	4	706	1614	200.0	35.0	8	9.0	1.2	6.8	145	2010	N	1			1							
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2010	N	2			2							
Upbound	Domestic	4	000764	1653	200.0	35.0	7	9.0	2.0	5.0	210	2010	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	2	10.0	1.7	0.3	190	2010	N	2							2			
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2010		1									1	
Upbound	Domestic	4	688	1519	195.0	35.0	2	9.0	1.6	0.4	160	2010	N	1							1			
Upbound	Domestic	4	794	1625	200.0	35.0	2	9.0	1.6	0.4	146	2010	N	1							1			
Upbound	Domestic	4	902	1750	200.0	35.0	2	10.0	1.5	0.5	194	2010		1							1			
Upbound	Domestic	4	910	1489	195.0	35.0	2	9.0	1.7	0.3	145	2010	N	1							1			
Upbound	Domestic	4	764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	2			2							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2010	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	7	9.0	1.4	5.6	235	2010	N	1			1							
Upbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2010	N	2			2							
Upbound	Domestic	5	891	1580	200.0	35.0	8	9.0	1.9	6.1	142	2010	N	3					3					
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2010	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2010	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.6	7.4	207	2010		1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	8	10.0	1.7	6.3	163	2010	N	1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2010	N	1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	1			1							
Upbound	Domestic	4	745	1494	195.0	35.0	2	9.0	1.6	0.4	166	2010	N	11							11			
Upbound	Domestic	4	891	2383	180.0	54.0	2	11.0	1.5	0.5	125	2010		1							1			
Upbound	Domestic	4	771	1541	200.0	35.0	2	9.0	1.6	0.4	212	2010	N	1							1			
Upbound	Domestic	5	001619	3444	297.0	54.0	2	10.0	0.6	1.4	280	2010		1									1	
Upbound	Domestic	4	687	1534	195.0	35.0	2	9.0	1.5	0.5	146	2010	N	1							1			
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2010	N	11			11							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2010	N	5			5							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2010	N	6			6							
Upbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2010	N	1			1							
Upbound	Domestic	4	862	1736	195.0	35.0	8	10.0	1.5	6.5	192	2010	N	1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2010	N	4			4							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2010	N	1			1							
Upbound	Domestic	4	675	1506	195.0	35.0	7	9.0	1.5	5.5	155	2010	N	1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2010		1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	2	9.0	2.0	0.0	140	2010		1							1			
Upbound	Domestic	5	1521	3600	294.5	54.0	2	10.0	2.0	0.0	170	2010		1									1	
Upbound	Domestic	4	676	1725	195.0	35.0	2	10.0	1.6	0.4	200	2010		1							1			
Upbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2010	N	2							2			
Upbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2010	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2010	N	9			9							
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2010	N	4			4							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2010		3			3							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2010	N	1			1							
Upbound	Domestic	4	764	1607	200.0	35.0	7	9.0	1.4	5.6	205	2010	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2010	N	3			3							
Upbound	Domestic	4	000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2010	N	1			1							
Upbound	Domestic	5	716	1464	195.0	35.0	8	9.0	1.1	6.9	209	2010	N	1					1					
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	1			1							
Upbound	Domestic	3	166	999999	95.0	28.0	7	7.0	6.5	0.5	400	2010		1		1								
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2010		2			2							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2010		2			2							
Upbound	Domestic	4	823	2289	200.0	35.0	9	12.0	1.6	7.4	240	2010	N	2			2							
Upbound	Domestic	4	764	1521	200.0	35.0	7	9.0	1.9	5.1	225	2010	N	1			1							
Upbound	Domestic	4	823	2750	200.0	35.0	9	14.0	1.6	7.4	250	2010	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	12	12.0	1.8	10.2	230	2010		1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2010	N	2			2							
Upbound	Domestic	4	687	1465	195.0	35.0	8	9.0	1.8	6.2	175	2010	N	1			1							
Upbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2010	N	1			1							
Upbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	1			1							
Upbound	Domestic	4	907	1733	195.0	35.0	8	10.0	1.6	6.4	200	2010		1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2010	N	1			1							
Upbound	Domestic	3	204	999999	156.0	38.0	7	6.5	6.5	0.5	363	2010		1		1								
Upbound	Domestic	4	687	1739	195.0	35.0	2	9.6	1.4	0.6	133	2010	N	1							1			
Upbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	1							1			
Upbound	Domestic	4	888	1520	195.0	35.0	2	9.0	1.6	0.4	180	2010	N	2							2			
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2010	N	15			15							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2010		3			3							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	3			3							
Upbound	Domestic	4	823	2300	200.0	35.0	9	12.0	1.6	7.4	150	2010	N	1			1							
Upbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2010	N	1			1							
Upbound	Domestic	4	687	1468	195.0	35.0	8	9.0	1.9	6.1	173	2010	N	4			4							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	205	2010	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2010	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2010	N	1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2010	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2010	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2010	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2010		9		9								
Upbound	Domestic	4	000719	1553	200.0	35.0	2	9.0	2.0	0.0	130	2010		4							4			
Upbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2010	N	1							1			
Upbound	Domestic	5	001754	4531	297.5	54.0	2	10.0	1.9	0.1	220	2010		1									1	
Upbound	Domestic	4	716	1500	195.0	35.0	2	9.0	1.5	0.5	136	2010	N	1							1			
Upbound	Domestic	4	1006	1902	195.0	35.0	2	11.0	1.9	0.1	199	2010		1							1			
Upbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2010	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2010	N	2			2							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2010	N	2			2							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2010	N	1			1							
Upbound	Domestic	4	823	1634	200.0	35.0	7	9.0	1.5	5.5	175	2010	N	1			1							
Upbound	Domestic	4	000764	2187	200.0	35.0	9	12.0	1.7	7.3	210	2010		2			2							
Upbound	Domestic	4	574	1526	195.0	35.0	8	9.0	1.6	6.4	140	2010	N	1			1							
Upbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2010		1		1								
Upbound	Domestic	4	705	1880	200.0	35.0	2	10.0	1.4	0.6	140	2010	N	1							1			
Upbound	Domestic	4	000764	1618	200.0	35.0	3	9.0	3.0	0.0	9999	2010	N	1							1			
Upbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2010	N	3							3			
Upbound	Domestic	4	000705	1650	200.0	35.0	8	12.0	1.5	6.5	208	2010	N	1			1							
Upbound	Domestic	4	000764	1500	200.0	35.0	11	10.5	1.5	9.5	130	2010		9			9							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2010		2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2010	N	3			3							
Upbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2010	N	2			2							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2010	N	2			2							
Upbound	Domestic	4	705	1501	200.0	35.0	11	12.0	1.5	9.5	186	2010	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2010	N	1			1							
Upbound	Domestic	4	764	1557	200.0	35.0	9	9.0	1.5	7.5	135	2010	N	1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2010	N	4			4							
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2010	N	2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2010	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	13	13.0	1.5	11.5	208	2010	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2010	N	3							3			
Upbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2010	N	1							1			
Upbound	Domestic	4	706	2306	200.0	35.0	2	10.0	1.4	0.6	196	2010	N	2							2			
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2010		4									4	
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2010		4		4								
Upbound	Domestic	4	687	1919	195.0	35.0	2	11.0	1.6	0.4	180	2010	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	2			2							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2010		3			3							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	13	13.0	1.8	11.2	230	2010	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2010	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2010	N	1			1							
Upbound	Domestic	4	764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2010	N	1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2010		1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2010	N	2			2							
Upbound	Domestic	5	1960	3694	297.0	54.0	2	10.0	2.0	0.0	185	2010	N	2									2	
Upbound	Domestic	4	000764	1677	200.0	35.0	2	9.0	1.4	0.6	165	2010		1							1			
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2010	N	1			1							
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2010		3			3							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2010	N	24			24							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2010	N	1			1							
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	4			4							
Upbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2010	N	2			2							
Upbound	Domestic	5	835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2010	N	1					1					
Upbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2010	N	1			1							
Upbound	Domestic	4	692	1465	195.0	35.0	8	9.0	1.8	6.2	175	2010	N	1			1							
Upbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2010	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	2	13.0	1.5	0.5	208	2010	N	1							1			
Upbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.6	0.4	155	2010	N	1							1			
Upbound	Domestic	4	1020	1854	200.0	35.0	2	10.0	1.6	0.4	167	2010		2							2			
Upbound	Domestic	4	764	1610	200.0	35.0	2	9.0	1.5	0.5	165	2010	N	1							1			
Upbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2010	N	2							2			
Upbound	Domestic	4	764	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2010	N	1							1			
Upbound	Domestic	4	705	1727	200.0	35.0	2	9.0	1.1	0.9	146	2010	N	1							1			
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2010	N	8			8							
Upbound	Domestic	4	000745	1507	195.0	35.0	4	9.0	1.6	2.4	139	2010	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2010	N	10			10							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2010		6			6							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2010	N	24			24							
Upbound	Domestic	4	000764	1862	200.0	35.0	10	10.0	1.5	8.5	191	2010	N	2			2							
Upbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2010	N	5			5							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2010	N	4			4							
Upbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2010	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2010	N	2			2							
Upbound	Domestic	4	578	1531	195.0	35.0	8	9.0	1.6	6.4	140	2010	N	1			1							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2010	N	1							1			
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	3			3							
Upbound	Domestic	4	705	1578	200.0	35.0	7	9.0	1.5	5.5	180	2010		1			1							
Upbound	Domestic	5	1038	2000	155.1	54.0	1	10.0	2.0	-1.0	180	2010		2									2	
Upbound	Domestic	4	823	1750	200.0	35.0	2	10.0	1.7	0.3	165	2010		1							1			
Upbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.6	0.4	250	2010	N	2							2			
Upbound	Domestic	4	630	1450	195.0	35.0	2	8.0	1.5	0.5	136	2010	N	6							6			
Upbound	Domestic	5	723	1481	195.0	35.0	3	9.2	2.5	0.5	186	2010	N	1									1	
Upbound	Domestic	4	000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2010	N	1							1			
Upbound	Domestic	4	921	1700	195.0	35.0	2	10.0	1.9	0.1	193	2010		4							4			
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2010	N	5			5							
Upbound	Domestic	4	888	1529	195.0	35.0	8	9.0	1.5	6.5	160	2010		1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2010	N	2			2							
Upbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	163	2010	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2010	N	1			1							
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2010	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2010	N	3			3							
Upbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2010	N	2			2							
Upbound	Domestic	4	799	1893	200.0	35.0	8	10.0	1.5	6.5	149	2010	N	1			1							
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2010		1			1							
Upbound	Domestic	4	723	1875	200.0	35.0	9	10.0	1.7	7.3	163	2010	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2010	N	2							2			
Upbound	Domestic	4	688	1680	200.0	35.0	2	9.0	1.5	0.5	210	2010	N	1							1			
Upbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.1	0.9	194	2010	N	5							5			
Upbound	Domestic	4	764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2010		2			2							
Upbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2010		2			2							
Upbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2010	N	1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2010	N	3			3							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2010	N	1					1					
Upbound	Domestic	5	886	1586	200.0	35.0	8	9.0	1.9	6.1	142	2010	N	1					1					
Upbound	Domestic	4	745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2010	N	2			2							
Upbound	Domestic	4	823	1634	200.0	35.0	9	9.0	1.5	7.5	175	2010	N	1			1							
Upbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2010	N	2			2							
Upbound	Domestic	4	618	1728	195.0	35.0	2	10.0	1.5	0.5	206	2010		1							1			
Upbound	Domestic	4	933	1548	200.0	35.0	2	9.0	1.6	0.4	193	2010	N	2							2			
Upbound	Domestic	5	2431	2500	280.0	50.0	2	9.0	2.5	-0.5	220	2010		2									2	
Upbound	Domestic	5	2424	2642	295.0	50.0	2	9.0	2.0	0.0	250	2010	N	1									1	
Upbound	Domestic	4	000782	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2010	N	1							1			
Upbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2010	N	1							1			
Upbound	Domestic	4	687	1722	195.0	35.0	2	10.0	1.6	0.4	205	2010		1							1			
Upbound	Domestic	4	823	1542	200.0	35.0	2	9.0	1.6	0.4	170	2010	N	1							1			
Upbound	Domestic	3	402	999999	140.8	43.3	8	11.0	8.0	0.0	453	2010	N	1		1								
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2010		2			2							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2010	N	3			3							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2010		1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2010	N	4			4							
Upbound	Domestic	4	764	1617	200.0	35.0	8	9.0	1.4	6.6	160	2010	N	1			1							
Upbound	Domestic	4	909	1445	195.0	35.0	8	9.0	1.9	6.1	203	2010	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2010	N	1			1							
Upbound	Domestic	4	000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2010	N	1			1							
Upbound	Domestic	4	000432	1296	105.0	35.0	8	10.0	2.0	6.0	9999	2010	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	9999	2010	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2010	N	1			1							
Upbound	Domestic	4	000764	1657	200.0	35.0	11	9.0	3.0	8.0	9999	2010	N	1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	2	9.0	1.6	0.4	200	2010	N	1							1			
Upbound	Domestic	4	690	2415	195.0	35.0	2	10.0	2.0	0.0	146	2010	N	2							2			
Upbound	Domestic	4	543	1487	195.0	35.0	2	9.0	1.6	0.4	119	2010	N	1							1			
Upbound	Domestic	4	710	1654	200.0	35.0	2	9.0	1.5	0.5	147	2010	N	2							2			
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2010	N	2			2							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2010		8			8							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2010		3			3							
Upbound	Domestic	4	834	1701	195.1	35.0	8	10.0	1.7	6.3	210	2010	N	1			1							
Upbound	Domestic	4	950	1500	200.0	35.0	8	9.0	1.6	6.4	149	2010	N	1			1							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2010	N	5			5							
Upbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2010	N	5			5							
Upbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2010		1					1					
Upbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2010	N	2			2							
Upbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2010	N	1			1							
Upbound	Domestic	4	705	1644	200.0	35.0	8	9.0	1.5	6.5	140	2010	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2010	N	2			2							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2010	N	4			4							
Upbound	Domestic	4	1020	1544	200.0	35.0	9	9.0	1.5	7.5	135	2010	N	1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2010	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2010	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	160	2010	N	2							2			
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2010		5		5								
Upbound	Domestic	5	2700	2500	281.0	50.0	3	9.0	2.5	0.5	230	2010		3									3	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	676	1492	195.0	35.0	2	9.0	1.8	0.2	162	2010	N	1							1			
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	15			15							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	11.0	1.8	7.2	170	2010		4			4							
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2010	N	2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2010	N	4			4							
Upbound	Domestic	4	705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2010	N	8			8							
Upbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2010	N	1			1							
Upbound	Domestic	4	1039	1623	200.0	35.0	8	9.0	1.7	6.3	146	2010	N	1			1							
Upbound	Domestic	4	696	1668	200.0	35.0	9	9.0	1.4	7.6	180	2010	N	1			1							
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2010		1									1	
Upbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	180	2010		1							1			
Upbound	Domestic	3	000219	322	120.0	35.0	8	10.0	8.0	0.0	290	2010		1		1								
Upbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	140	2010	N	2							2			
Upbound	Domestic	4	909	1442	195.0	35.0	2	9.0	1.9	0.1	203	2010	N	1							1			
Upbound	Domestic	4	690	1500	195.0	35.0	2	9.0	1.9	0.1	149	2010	N	1							1			
Upbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2010	N	4			4							
Upbound	Domestic	4	705	1651	200.0	35.0	8	9.0	2.0	6.0	196	2010	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	8	9.0	1.4	6.6	208	2010		1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	3			3							
Upbound	Domestic	4	546	1665	200.0	35.0	8	9.0	2.0	6.0	190	2010	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2010	N	2			2							
Upbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2010	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2010	N	1			1							
Upbound	Domestic	4	922	2295	200.0	35.0	8	12.0	1.5	6.5	190	2010		1			1							
Upbound	Domestic	4	000823	2792	200.0	35.0	7	12.0	1.7	5.3	250	2010	N	1			1							
Upbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	7	14.0	1.7	5.3	250	2010	N	1			1							
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2010		5									5	
Upbound	Domestic	4	687	1586	195.0	35.0	2	9.0	1.4	0.6	148	2010	N	1							1			
Upbound	Domestic	4	910	1489	195.0	35.0	2	9.0	1.7	0.3	203	2010	N	1							1			
Upbound	Domestic	4	764	1608	200.0	35.0	2	9.0	1.5	0.5	225	2010	N	1							1			
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2010	N	4			4							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	9.0	2.0	9.0	9999	2010	N	1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2010	N	2			2							
Upbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.3	7.7	213	2010	N	1			1							
Upbound	Domestic	4	182	500	110.0	32.0	2	6.0	1.5	0.5	80	2010	N	1							1			
Upbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2010	N	1			1							
Upbound	Domestic	4	000764	1625	200.0	35.0	13	9.0	3.0	10.0	9999	2010	N	1			1							
Upbound	Domestic	4	909	1485	195.0	35.0	8	9.0	1.7	6.3	203	2010	N	1			1							
Upbound	Domestic	4	1046	1904	195.0	35.0	2	11.0	1.8	0.2	191	2010		2							2			
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2010		3			3							
Upbound	Domestic	4	1065	1716	200.0	35.0	7	9.0	1.1	5.9	145	2010	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2010		2			2							
Upbound	Domestic	4	922	1842	200.0	35.0	9	10.0	1.8	7.2	210	2010	N	1			1							
Upbound	Domestic	4	823	2500	200.0	35.0	10	12.0	2.0	8.0	250	2010	N	1			1							
Upbound	Domestic	4	000764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2010	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2010	N	1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2010	N	3			3							
Upbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2010	N	1			1							
Upbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2010	N	1			1							
Upbound	Domestic	5	1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2010		8									8	
Upbound	Domestic	4	000764	2397	200.0	35.0	2	13.0	1.7	0.3	208	2010	N	1							1			
Upbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2010	N	1									1	
Upbound	Domestic	4	929	2010	200.0	35.0	2	10.6	1.3	0.7	220	2010	N	1							1			
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2010	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	7	9.0	1.6	5.4	154	2010	N	1			1							
Upbound	Domestic	4	546	1900	200.0	35.0	8	9.0	2.0	6.0	190	2010	N	1			1							
Upbound	Domestic	4	1046	1904	195.0	35.0	8	11.0	1.8	6.2	191	2010		1			1							
Upbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2010		2			2							
Upbound	Domestic	4	676	1912	195.0	35.0	8	11.0	1.8	6.2	180	2010		1			1							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2010		4			4							
Upbound	Domestic	4	764	2187	200.0	35.0	8	11.0	1.7	6.3	240	2010		1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2010	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2010	N	3			3							
Upbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.6	0.4	165	2010		2							2			
Upbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2010	N	2							2			
Upbound	Domestic	3	116	999999	75.0	26.0	5	7.0	5.0	0.0	185	2010	N	1		1								
Upbound	Domestic	4	966	1654	200.0	35.0	2	9.0	1.4	0.6	193	2010	N	1							1			
Upbound	Domestic	4	933	1662	200.0	35.0	2	9.0	1.4	0.6	194	2010	N	1							1			
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2010		7			7							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2010	N	4			4							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2010	N	3			3							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2010	N	5			5							
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2010	N	31			31							
Upbound	Domestic	4	710	1654	200.0	35.0	8	9.0	1.5	6.5	147	2010	N	1			1							
Upbound	Domestic	4	823	1643	200.0	35.0	11	11.0	1.5	9.5	9999	2010	N	1			1							
Upbound	Domestic	4	975	1489	195.0	35.0	9	9.0	1.7	7.3	145	2010	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	191	2010	N	1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	165	2010	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	147	2010	N	1			1							
Upbound	Domestic	4	688	1912	195.0	35.0	2	10.0	1.7	0.3	160	2010	N	1							1			
Upbound	Domestic	4	770	1889	200.0	35.0	2	10.0	1.5	0.5	149	2010	N	1							1			
Upbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2010	N	2							2			
Upbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2010	N	1							1			
Upbound	Domestic	4	909	1445	195.0	35.0	2	9.0	1.9	0.1	203	2010	N	1							1			
Upbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2010	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2010		4			4							
Upbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2010	N	2			2							
Upbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2010	N	5			5							
Upbound	Domestic	4	000705	2200	200.0	35.0	8	9.0	1.5	6.5	217	2010	N	1			1							
Upbound	Domestic	4	823	1641	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	2			2							
Upbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2010		1			1							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2010	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	12	10.0	3.0	9.0	9999	2010	N	1			1							
Upbound	Domestic	5	747	1750	200.0	35.0	8	9.3	2.0	6.0	190	2010	N	1					1					
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2010		24		24								
Upbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2010	N	2							2			
Upbound	Domestic	3	000102	342	110.0	32.0	8	10.3	8.6	-0.6	400	2010		1		1								
Upbound	Domestic	4	000764	1865	200.0	35.0	2	10.0	1.5	0.5	139	2010	N	3							3			
Upbound	Domestic	4	710	2485	200.0	35.0	2	10.0	2.0	0.0	147	2010	N	1							1			
Upbound	Domestic	4	000971	1668	200.1	35.1	2	8.7	1.4	0.6	182	2010	N	1							1			
Upbound	Domestic	4	1020	1644	200.0	35.0	2	9.0	1.6	0.4	166	2010	N	1							1			
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2010		2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2010	N	3			3							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2010	N	1							1			
Upbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2010	N	1			1							
Upbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2010	N	1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2010		2							2			
Upbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	180	2010		2							2			
Upbound	Domestic	4	706	1650	200.0	35.0	2	9.0	1.5	0.5	196	2010	N	1							1			
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2010	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2010	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2010	N	5			5							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2010	N	15			15							
Upbound	Domestic	4	705	1501	200.0	35.0	10	12.0	1.5	8.5	186	2010	N	1			1							
Upbound	Domestic	4	705	1653	200.0	35.0	8	9.0	1.5	6.5	218	2010	N	2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	687	1494	195.0	35.0	5	9.0	1.7	3.3	166	2010	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2010		3			3							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2010		2			2							
Upbound	Domestic	4	723	1875	200.0	35.0	8	10.0	1.7	6.3	163	2010	N	1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2010	N	2					2					
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2010		21		21								
Upbound	Domestic	4	745	2006	195.0	35.0	2	9.5	1.5	0.5	146	2010	N	1							1			
Upbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2010	N	8							8			
Upbound	Domestic	4	764	1554	200.0	35.0	2	9.0	1.5	0.5	170	2010	N	1							1			
Upbound	Domestic	4	946	1667	200.0	35.0	2	9.0	1.4	0.6	160	2010	N	1							1			
Upbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	148	2010	N	1							1			
Upbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2010	N	6			6							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2010	N	3			3							
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2010	N	2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	11	11.0	1.5	9.5	199	2010	N	2			2							
Upbound	Domestic	5	855	1490	195.0	35.0	8	9.0	2.0	6.0	170	2010		3					3					
Upbound	Domestic	4	823	1627	200.0	35.0	13	12.0	1.8	11.2	230	2010	N	1			1							
Upbound	Domestic	5	001918	3100	297.5	54.0	9	10.3	2.0	7.0	193	2010		1					1					
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2010	N	2			2							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2010	N	1					1					
Upbound	Domestic	4	546	1900	195.0	35.0	8	9.0	1.0	7.0	190	2010	N	1			1							
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2010	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2010	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2010	N	1			1							
Upbound	Domestic	5	1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2010		2									2	
Upbound	Domestic	5	2147	3400	297.5	54.0	2	10.0	2.0	0.0	180	2010		4									4	
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2010		14		14								
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2010		27		27								
Upbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2010	N	1							1			
Upbound	Domestic	4	676	1516	195.0	35.0	2	9.0	1.6	0.4	130	2010	N	1							1			
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2010	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2010	N	7			7							
Upbound	Domestic	4	848	1524	195.0	35.0	7	9.0	1.6	5.4	185	2010	N	2			2							
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2010		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2010	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2010	N	2			2							
Upbound	Domestic	4	764	1990	200.0	35.0	5	11.0	4.0	1.0	170	2010	N	1							1			
Upbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2010	N	1			1							
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2010		11		11								
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2010		8									8	
Upbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2010	N	2							2			
Upbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2010		1		1								
Upbound	Domestic	3	64	64	64.0	26.0	6	7.5	6.0	0.0	496	2010		1		1								
Upbound	Domestic	4	705	1893	200.0	35.0	2	10.0	1.4	0.6	205	2010		1							1			
Upbound	Domestic	4	764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2010	N	1							1			
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	23			23							
Upbound	Domestic	4	676	1725	195.0	35.0	9	10.0	1.6	7.4	200	2010		1			1							
Upbound	Domestic	4	888	1475	195.0	35.0	8	9.0	1.6	6.4	206	2010		1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2010	N	2			2							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2010	N	3			3							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.5	8.5	160	2010	N	1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2010	N	1			1							
Upbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2010	N	1			1							
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2010		4									4	
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2010	N	1							1			
Upbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.7	0.3	250	2010	N	2							2			
Upbound	Domestic	5	1876	3300	297.5	54.0	2	10.0	2.0	0.0	180	2010		1									1	
Upbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2010		1		1								
Upbound	Domestic	4	745	1496	195.0	35.0	2	9.0	1.6	0.4	166	2010	N	1							1			
Upbound	Domestic	4	909	1485	195.0	35.0	2	9.0	1.7	0.3	203	2010	N	1							1			
Upbound	Domestic	4	705	1727	200.0	35.0	7	9.0	1.1	5.9	146	2010	N	1			1							
Upbound	Domestic	4	834	1500	195.0	35.0	9	10.0	1.7	7.3	191	2010	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2010	N	5			5							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	165	2010		2			2							
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2010	N	3							3			
Upbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2010	N	1			1							
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2010	N	5			5							
Upbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2010		2					2					
Upbound	Domestic	4	823	1825	200.0	35.0	8	9.0	1.7	6.3	210	2010	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2010	N	4			4							
Upbound	Domestic	5	788	1488	195.0	35.0	9	9.0	2.5	6.5	140	2010	N	1					1					
Upbound	Domestic	4	000823	1530	200.0	35.0	8	9.0	1.6	6.4	180	2010	N	1			1							
Upbound	Domestic	4	688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2010	N	1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	9	11.0	1.5	7.5	200	2010	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	12	13.0	1.5	10.5	208	2010		1			1							
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2010		4									4	
Upbound	Domestic	4	764	1665	200.0	35.0	2	9.0	1.4	0.6	155	2010	N	1							1			
Upbound	Domestic	4	001020	1633	200.0	35.0	2	9.0	1.6	0.4	149	2010	N	1							1			
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2010	N	5			5							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2010		8			8							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2010	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2010	N	5			5							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2010	N	4			4							
Upbound	Domestic	4	823	2319	200.0	35.0	9	12.0	1.3	7.7	227	2010		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2010	N	3			3							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2010	N	3			3							
Upbound	Domestic	4	000764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2010	N	1			1							
Upbound	Domestic	4	688	2142	195.0	35.0	7	11.0	1.5	5.5	160	2010	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2010	N	3			3							
Upbound	Domestic	4	705	1551	200.0	35.0	7	9.0	1.5	5.5	224	2010	N	1			1							
Upbound	Domestic	5	835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2010	N	2					2					
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2010	N	3			3							
Upbound	Domestic	4	799	1893	200.0	35.0	8	10.0	1.4	6.6	149	2010	N	1			1							
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2010		28		28								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2010		7									7	
Upbound	Domestic	4	000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2010	N	2							2			
Upbound	Domestic	3	999999	999999	72.7	24.1	2	6.0	6.0	-4.0	336	2010	N	1		1								
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2010	N	3			3							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2010	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	3			3							
Upbound	Domestic	4	764	1531	200.0	35.0	9	9.0	1.6	7.4	204	2010	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2010	N	12							12			
Upbound	Domestic	4	799	1893	200.0	35.0	2	10.0	1.5	0.5	149	2010	N	1							1			
Upbound	Domestic	4	000764	1578	200.0	35.0	3	9.0	3.0	0.0	9999	2010	N	1							1			
Upbound	Domestic	4	823	2188	200.0	35.0	2	12.0	1.6	0.4	225	2010	N	1							1			
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2010	N	7			7							
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2010	N	9			9							
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2010	N	15			15							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2010	N	10			10							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	150	2010	N	1			1							
Upbound	Domestic	4	000764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2010	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2010	N	2			2							
Upbound	Domestic	4	823	2469	200.0	35.0	14	13.0	1.8	12.2	230	2010	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	155	2010	N	1							1			
Upbound	Domestic	4	950	1663	200.0	35.0	2	9.0	1.6	0.4	145	2010	N	1							1			
Upbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	216	2010	N	1							1			

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
										An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.				OK			Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2010	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2010	N	2			2							
Upbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2010		1			1							
Upbound	Domestic	4	706	1879	200.0	35.0	8	10.0	1.5	6.5	160	2010	N	1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2010	N	2			2							
Upbound	Domestic	4	706	1507	200.0	35.0	7	9.0	1.9	5.1	215	2010	N	1			1							
Upbound	Domestic	4	637	1911	195.0	35.0	8	9.0	1.0	7.0	190	2010	N	1			1							
Upbound	Domestic	4	706	1868	200.0	35.0	2	10.0	1.5	0.5	196	2010	N	1							1			
Upbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2010	N	4							4			
Upbound	Domestic	4	687	1514	195.0	35.0	2	9.0	1.5	0.5	149	2010	N	1							1			
Upbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2010	N	4							4			
Upbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2010	N	12			12							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2010		1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2010		7			7							
Upbound	Domestic	4	000687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2010		1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2010		2			2							
Upbound	Domestic	4	922	1842	200.0	35.0	8	10.0	1.8	6.2	210	2010	N	1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.6	5.4	225	2010	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2010	N	3			3							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	1869	2010	N	1			1							
Upbound	Domestic	4	764	1744	200.0	35.0	9	10.0	1.7	7.3	209	2010	N	2			2							
Upbound	Domestic	5	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2010	N	1					1					
Upbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2010	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	11	10.0	1.5	9.5	208	2010	N	1			1							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2010		6									6	
Upbound	Domestic	4	764	1422	200.0	35.0	2	8.0	1.6	0.4	165	2010		1							1			
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2010		27		27								
Upbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2010	N	9							9			
Upbound	Domestic	4	687	1722	195.0	35.0	9	10.0	1.6	7.4	205	2010		1			1							
Upbound	Domestic	4	764	1910	200.0	35.0	8	9.0	2.0	6.0	195	2010		4			4							
Upbound	Domestic	4	1006	1902	195.0	35.0	8	11.0	1.9	6.1	199	2010		1			1							
Upbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2010	N	1			1							
Upbound	Domestic	4	000764	764	200.0	35.0	9	9.0	2.0	7.0	196	2010		8			8							
Upbound	Domestic	5	891	1591	200.0	35.0	8	9.0	1.9	6.1	225	2010	N	1					1					
Upbound	Domestic	4	745	1494	195.0	35.0	7	9.0	1.6	5.4	166	2010	N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	7	9.0	1.8	5.2	225	2010	N	1			1							
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2010		9									9	
Upbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	154	2010	N	1							1			
Upbound	Domestic	4	764	1673	200.0	35.0	2	9.0	1.4	0.6	165	2010	N	1							1			
Upbound	Domestic	4	000705	1625	200.0	35.0	2	9.0	2.0	0.0	231	2010	N	1							1			
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2010	N	2							2			
Upbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2010	N	1							1			
Downbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2010		3				3						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2010		1				1						
Downbound	Domestic	5	834	2502	147.6	54.0	9	9.5	1.5	7.5	185	2010		3						3				
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2010	N	7				7						
Downbound	Domestic	4	676	1397	195.0	35.0	9	9.0	1.6	7.4	160	2010	N	1				1						
Downbound	Domestic	4	848	1524	195.0	35.0	8	9.0	1.6	6.4	185	2010	N	2				2						
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2010	N	4				4						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	16				16						
Downbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	200	2010	N	1				1						
Downbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2010	N	1										1
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2010	N	1				1						
Downbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2010		33		33								
Downbound	Domestic	5	891	1580	200.0	35.0	2	9.0	1.9	0.1	142	2010	N	3										3
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2010	N	9				9						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2010		11				11						
Downbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2010	N	2				2						
Downbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2010	N	5				5						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2010	N	1				1						
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2010	N	14				14						
Downbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	135	2010	N	1				1						
Downbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2010	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2010	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	4				4						
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2010	N	14										14
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2010	N	3								3		
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2010	N	3								3		
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2010	N	2								2		
Downbound	Domestic	4	706	1507	200.0	35.0	2	9.0	1.9	0.1	215	2010	N	1								1		
Downbound	Domestic	4	637	1911	195.0	35.0	2	9.0	1.0	1.0	190	2010	N	1								1		
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2010		2				2						
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2010		3						3				
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	149	2010	N	1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2010		1				1						
Downbound	Domestic	4	000745	1648	195.0	35.0	12	12.0	1.5	10.5	186	2010	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2010	N	5				5						
Downbound	Domestic	4	823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2010	N	2				2						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2010	N	3				3						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.6	6.4	155	2010	N	1				1						
Downbound	Domestic	4	952	1450	200.0	35.0	9	9.0	2.0	7.0	165	2010	N	1				1						
Downbound	Domestic	4	696	1648	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	1				1						
Downbound	Domestic	4	823	2500	200.0	35.0	2	12.0	2.0	0.0	250	2010	N	1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2010		6				6						
Downbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2010		6				6						
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2010		1						1				
Downbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2010	N	4				4						
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2010	N	3				3						
Downbound	Domestic	4	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	4								4		
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2010		1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	7	9.0	1.5	5.5	180	2010		1				1						
Downbound	Domestic	4	687	1586	195.0	35.0	8	10.0	2.0	6.0	148	2010	N	1				1						
Downbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2010	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	7	9.0	1.6	5.4	139	2010	N	1				1						
Downbound	Domestic	4	687	1510	195.0	35.0	9	9.0	1.6	7.4	119	2010	N	1				1						
Downbound	Domestic	4	2500	4500	192.0	37.0	5	18.0	3.0	2.0	1000	2010		2								2		
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2010		1				1						
Downbound	Domestic	4	888	1529	195.0	35.0	2	9.0	1.5	0.5	160	2010		1								1		
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2010	N	4								4		
Downbound	Domestic	4	705	1651	200.0	35.0	2	9.0	2.0	0.0	196	2010	N	1								1		
Downbound	Domestic	4	000705	1616	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	1								1		
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2010		1								1		
Downbound	Domestic	4	000724	1532	200.0	35.0	4	9.0	1.7	2.3	160	2010		1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	9	9.0	1.5	7.5	217	2010	N	1				1						
Downbound	Domestic	4	706	1868	200.0	35.0	9	10.0	1.5	7.5	196	2010	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2010	N	6				6						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2010	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2010	N	1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2010	N	5				5						
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2010	N	2				2						
Downbound	Domestic	5	855	1401	195.0	35.0	2	9.0	2.0	0.0	140	2010		1										1
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	165	2010		1								1		
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2010		9								9		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2010		5								5		
Downbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2010	N	3								3		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2010		3		3								
Downbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2010	N	3								3		
Downbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.7	0.3	250	2010	N	1								1		
Downbound	Domestic	5	805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2010	N	2										2
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2010	N	1								1		
Downbound	Domestic	5	1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2010		9						9				
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2010		3				3						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2010		4				4						
Downbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	119	2010	N	2				2						
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2010	N	1				1						
Downbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2010	N	2				2						
Downbound	Domestic	5	001918	3100	297.5	54.0	10	10.3	2.0	8.0	193	2010		10						10				
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2010	N	4				4						
Downbound	Domestic	4	745	1494	195.0	35.0	9	9.0	1.6	7.4	166	2010	N	1				1						
Downbound	Domestic	5	1861	5250	356.0	54.0	7	13.0	2.0	5.0	220	2010		0						0				
Downbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2010	N	1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2010		10								10		
Downbound	Domestic	4	000687	2061	195.0	35.0	2	12.0	1.6	0.4	9999	2010	N	1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	2	10.0	1.4	0.6	208	2010		1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	170	2010		1								1		
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	180	2010		2				2						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2010	N	7				7						
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	209	2010	N	1				1						
Downbound	Domestic	4	823	2078	200.0	35.0	10	11.0	1.6	8.4	250	2010		1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2010	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2010	N	16				16						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	2				2						
Downbound	Domestic	4	929	2010	200.0	35.0	9	10.6	1.3	7.7	220	2010	N	2				2						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2010		2				2						
Downbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2010		1				1						
Downbound	Domestic	4	764	1607	200.0	35.0	8	9.0	1.4	6.6	205	2010	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2010	N	1				1						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2010	N	2				2						
Downbound	Domestic	4	705	1644	200.0	35.0	9	9.0	1.5	7.5	140	2010	N	1				1						
Downbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2010	N	1				1						
Downbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2010	N	2				2						
Downbound	Domestic	4	696	1668	200.0	35.0	8	9.0	1.4	6.6	180	2010	N	1				1						
Downbound	Domestic	4	687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2010	N	1								1		
Downbound	Domestic	4	764	1557	200.0	35.0	2	9.0	1.5	0.5	135	2010	N	1								1		
Downbound	Domestic	4	1020	1544	200.0	35.0	2	9.0	1.5	0.5	135	2010	N	1								1		
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2010		1				1						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2010	N	3								3		
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2010	N	5				5						
Downbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2010	N	3				3						
Downbound	Domestic	5	001754	4531	297.5	54.0	7	10.0	1.9	5.1	220	2010		1						1				
Downbound	Domestic	4	601	1616	195.0	35.0	8	9.0	1.4	6.6	146	2010	N	1				1						
Downbound	Domestic	4	771	1660	200.0	35.0	9	9.0	1.4	7.6	218	2010	N	1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	1				1						
Downbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2010	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2010	N	1								1		
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2010	N	6								6		
Downbound	Domestic	4	700	1504	195.0	35.0	2	9.0	1.6	0.4	206	2010	N	1								1		
Downbound	Domestic	4	736	1884	200.0	35.0	2	10.0	1.5	0.5	176	2010	N	1								1		
Downbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.6	0.4	211	2010	N	1								1		
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	2.0	8.0	220	2010		8						8				
Downbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2010		4						4				
Downbound	Domestic	4	745	2006	195.0	35.0	7	9.5	1.8	5.2	146	2010	N	1				1						
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2010		6						6				
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2010		1				1						
Downbound	Domestic	5	2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2010	N	1										1
Downbound	Domestic	4	687	1739	195.0	35.0	9	9.6	1.4	7.6	133	2010	N	1				1						
Downbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2010	N	1				1						
Downbound	Domestic	4	000745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2010	N	1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2010		7		7								
Downbound	Domestic	4	799	1893	200.0	35.0	2	10.0	1.4	0.6	149	2010	N	2								2		
Downbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2010		4						4				
Downbound	Domestic	4	618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2010		2				2						
Downbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2010	N	1				1						
Downbound	Domestic	4	687	1515	195.0	35.0	9	9.0	1.4	7.6	150	2010	N	1				1						
Downbound	Domestic	4	705	1727	200.0	35.0	8	9.0	1.1	6.9	146	2010	N	1				1						
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2010	N	4				4						
Downbound	Domestic	5	741	1701	195.0	35.0	2	10.0	2.0	0.0	170	2010	N	1										1
Downbound	Domestic	4	710	1654	200.0	35.0	8	10.0	2.0	6.0	147	2010	N	1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2010	N	2								2		
Downbound	Domestic	5	001619	3142	297.0	54.0	7	10.0	0.6	6.4	280	2010		1						1				
Downbound	Domestic	4	000764	2528	200.0	35.0	9	13.0	1.5	7.5	186	2010		1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2010		1				1						
Downbound	Domestic	4	745	2006	195.0	35.0	7	9.5	1.5	5.5	146	2010	N	1				1						
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2010	N	4				4						
Downbound	Domestic	4	000764	1617	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	1				1						
Downbound	Domestic	4	696	1644	200.0	35.0	9	9.0	1.6	7.4	180	2010	N	1				1						
Downbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2010	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	10	12.0	1.6	8.4	250	2010	N	1				1						
Downbound	Domestic	4	774	1450	195.0	35.0	8	9.0	1.5	6.5	190	2010	N	1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2010	N	3				3						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2010		1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2010	N	1								1		
Downbound	Domestic	4	856	1856	200.0	35.1	8	10.0	1.6	6.4	210	2010	N	1				1						
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2010		23		23								
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2010	N	18								18		
Downbound	Domestic	3	108	999999	58.0	22.0	7	7.0	6.5	0.5	340	2010		1		1								
Downbound	Domestic	5	1861	5250	356.0	54.0	2	13.0	2.0	0.0	220	2010		1										1
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2010	N	7				7						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	10.0	3.0	5.0	170	2010		1				1						
Downbound	Domestic	4	745	2345	195.0	35.0	6	9.0	1.6	4.4	209	2010	N	2				2						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2010		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	13	10.0	1.5	11.5	186	2010	N	1				1						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2010	N	3				3						
Downbound	Domestic	4	823	2289	200.0	35.0	8	12.0	1.6	6.4	240	2010	N	1				1						
Downbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2010	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2010		1				1						
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2010		2		2								
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2010	N	1								1		
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2010		4								4		
Downbound	Domestic	4	823	1627	200.0	35.0	2	13.0	1.8	0.2	230	2010	N	1								1		
Downbound	Domestic	4	000764	1800	200.0	35.0	2	9.0	1.4	0.6	155	2010	N	1								1		
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2010		4				4						
Downbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2010	N	1				1						
Downbound	Domestic	4	687	1633	195.0	35.0	9	9.0	1.4	7.6	133	2010	N	3				3						
Downbound	Domestic	4	834	1701	195.1	35.0	9	10.0	1.7	7.3	210	2010	N	1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2010		1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2010	N	3				3						
Downbound	Domestic	4	764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2010	N	2				2						
Downbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2010	N	1				1						
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	8				8						
Downbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	119	2010	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2010	N	1				1						
Downbound	Domestic	4	000764	1611	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2010		3								3		
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2010		1								1		
Downbound	Domestic	4	957	1665	200.0	35.0	2	9.0	1.4	0.6	186	2010	N	1								1		
Downbound	Domestic	4	000448	150	200.0	35.0	7	7.0	2.5	4.5	400	2010		13				13						
Downbound	Domestic	4	783	1902	195.0	35.0	8	11.0	1.9	6.1	199	2010		2				2						
Downbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2010	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2010		1				1						
Downbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2010	N	1				1						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2010	N	2				2						
Downbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2010	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2010		1				1						
Downbound	Domestic	4	805	1905	200.0	40.0	2	9.0	1.5	0.5	105	2010		1								1		
Downbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2010	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2010		12								12		
Downbound	Domestic	5	788	1439	195.0	35.0	2	9.0	2.0	0.0	165	2010	N	3										3
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2010	N	1								1		
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2010		4						4				
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2010	N	4								4		
Downbound	Domestic	4	705	1885	200.0	35.0	7	9.0	1.4	5.6	208	2010		1				1						
Downbound	Domestic	4	000764	1956	200.0	35.0	9	9.0	2.0	7.0	196	2010		12				12						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	149	2010	N	1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2010		3				3						
Downbound	Domestic	4	888	1475	195.0	35.0	2	9.0	1.6	0.4	206	2010		1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2010	N	1								1		
Downbound	Domestic	4	975	1489	195.0	35.0	2	9.0	1.7	0.3	145	2010	N	1								1		
Downbound	Domestic	3	48	999999	45.5	20.1	9	8.3	8.3	0.7	430	2010		1		1								
Downbound	Domestic	5	1816	5450	356.0	54.0	2	13.0	2.0	0.0	220	2010		1										1
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2010		2						2				
Downbound	Domestic	5	1521	3600	294.5	54.0	9	10.0	2.0	7.0	170	2010		1						1				
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2010	N	3				3						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2010		1				1						
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2010	N	2				2						
Downbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2010	N	1				1						
Downbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2010	N	4										4
Downbound	Domestic	4	975	1480	195.0	35.0	8	9.0	1.6	6.4	146	2010	N	1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2010	N	2				2						
Downbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2010	N	3				3						
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2010	N	2								2		
Downbound	Domestic	5	1632	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2010	N	1										1
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.5	0.5	217	2010	N	1								1		
Downbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2010		5		5								
Downbound	Domestic	4	717	1662	200.0	35.0	2	9.0	1.4	0.6	191	2010	N	1								1		
Downbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2010	N	2								2		
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2010	N	2								2		
Downbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2010		1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	9	10.0	1.6	7.4	224	2010	N	1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2010		4				4						
Downbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2010	N	2										2
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2010	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2010	N	3				3						
Downbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2010	N	1								1		
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2010	N	1				1						
Downbound	Domestic	5	800	1701	195.0	35.0	2	10.0	2.0	0.0	170	2010	N	1										1
Downbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2010	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2010	N	1				1						
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2010		21		21								
Downbound	Domestic	4	705	1501	200.0	35.0	2	12.0	1.5	0.5	186	2010	N	1								1		
Downbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2010	N	3								3		
Downbound	Domestic	4	000745	1502	195.0	35.0	2	9.0	1.6	0.4	155	2010	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2010		8				8						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2010	N	2				2						
Downbound	Domestic	4	1020	1633	200.0	35.0	9	9.0	1.6	7.4	149	2010	N	1				1						
Downbound	Domestic	4	676	1500	195.0	35.0	9	9.0	1.6	7.4	160	2010	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2010	N	1								1		
Downbound	Domestic	4	705	1570	200.0	35.0	8	9.0	1.5	6.5	150	2010	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2010		1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2010	N	5				5						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	10.0	1.8	7.2	170	2010		1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	205	2010	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2010	N	2				2						
Downbound	Domestic	4	688	1498	195.0	35.0	2	9.0	1.9	0.1	168	2010	N	1								1		
Downbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2010		1		1								
Downbound	Domestic	4	687	1501	195.0	35.0	12	12.0	1.5	10.5	186	2010	N	5				5						
Downbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2010	N	2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2010	N	3				3						
Downbound	Domestic	4	764	1956	200.0	35.0	6	9.0	2.0	4.0	130	2010	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2010	N	5				5						
Downbound	Domestic	4	764	2400	200.0	35.0	9	9.0	1.6	7.4	225	2010	N	1				1						
Downbound	Domestic	4	823	1627	200.0	35.0	11	11.0	1.8	9.2	230	2010	N	1				1						
Downbound	Domestic	4	687	1514	195.0	35.0	4	9.0	1.5	2.5	206	2010		1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2010		1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2010	N	2								2		
Downbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2010		1		1								
Downbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2010		2		2								
Downbound	Domestic	5	1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2010		9						9				
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2010		1						1				
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2010	N	1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2010		4				4						
Downbound	Domestic	4	000181	1700	120.0	30.0	6	6.0	6.0	0.0	370	2010		6								6		
Downbound	Domestic	4	000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2010	N	1				1						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2010	N	1				1						
Downbound	Domestic	4	687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2010	N	1				1						
Downbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2010	N	1				1						
Downbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2010	N	1				1						
Downbound	Domestic	4	933	1548	200.0	35.0	9	9.0	1.6	7.4	193	2010	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	186	2010	N	2				2						
Downbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2010		1				1						
Downbound	Domestic	5	1876	3300	297.5	54.0	8	10.0	2.0	6.0	180	2010		1						1				
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2010	N	7								7		
Downbound	Domestic	3	131	999999	75.0	27.2	7	9.6	8.0	-1.0	315	2010		1		1								
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2010	N	9								9		
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2010	N	6								6		
Downbound	Domestic	4	546	1665	200.0	35.0	2	9.0	2.0	0.0	190	2010	N	1								1		
Downbound	Domestic	4	546	1900	195.0	35.0	2	9.0	1.0	1.0	190	2010	N	1								1		
Downbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2010		2				2						
Downbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2010		1				1						
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2010		5						5				
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2010		1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2010		7				7						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2010	N	4				4						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2010	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	13	12.0	1.5	11.5	186	2010	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2010	N	2				2						
Downbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2010	N	1				1						
Downbound	Domestic	4	000764	1578	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2010	N	1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	186	2010	N	2								2		
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2010	N	1								1		
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2010		9				9						
Downbound	Domestic	4	783	1937	195.0	35.0	9	11.0	1.8	7.2	210	2010		3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2010	N	19				19						
Downbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2010	N	2				2						
Downbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2010	N	1				1						
Downbound	Domestic	4	946	1667	200.0	35.0	8	9.0	1.4	6.6	160	2010	N	1				1						
Downbound	Domestic	4	764	1666	200.0	35.0	9	9.0	1.5	7.5	170	2010	N	1				1						
Downbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2010	N	1				1						
Downbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2010		1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2010		16		16								
Downbound	Domestic	4	85	401	110.0	26.0	2	6.5	1.2	0.8	70	2010	N	1								1		
Downbound	Domestic	4	000782	1990	200.0	35.0	2	9.0	1.5	0.5	170	2010	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2010	N	6				6						
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	3				3						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2010	N	3				3						
Downbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2010	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2010	N	2				2						
Downbound	Domestic	4	862	1539	195.0	35.0	9	9.0	1.5	7.5	192	2010	N	2				2						
Downbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2010	N	2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2010	N	2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.5	7.5	190	2010	N	1				1						
Downbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2010	N	1				1						
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2010		1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	1				1						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2010	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	9	12.0	2.0	7.0	180	2010		1						1				
Downbound	Domestic	4	000764	1633	200.0	35.0	2	9.0	1.6	0.4	225	2010	N	1								1		
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2010	N	1								1		
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2010	N	1										1
Downbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	3				3						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2010		2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2010	N	5				5						
Downbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2010		2				2						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2010	N	2				2						
Downbound	Domestic	4	834	1500	195.0	35.0	8	10.0	1.7	6.3	191	2010	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2010	N	12				12						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2010	N	34				34						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2010		1				1						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	2.0	10.0	9999	2010	N	1				1						
Downbound	Domestic	4	823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2010	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2010	N	3				3						
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2010		43		43								
Downbound	Domestic	4	000764	1568	200.0	35.0	2	9.0	1.6	0.4	204	2010	N	1								1		
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2010	N	4				4						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2010	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2010	N	2				2						
Downbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2010	N	1				1						
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2010	N	9				9						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2010	N	1				1						
Downbound	Domestic	4	823	1535	200.0	35.0	8	9.0	1.7	6.3	260	2010	N	1				1						
Downbound	Domestic	4	000764	1635	200.0	35.0	8	9.0	1.4	6.6	215	2010	N	1				1						
Downbound	Domestic	4	763	2290	195.0	35.0	2	12.0	1.7	0.3	235	2010	N	1								1		
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	1								1		
Downbound	Domestic	5	1619	5666	297.5	54.0	3	12.0	2.5	0.5	150	2010		1										1
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2010		1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2010		1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2010		12				12						
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2010	N	1				1						
Downbound	Domestic	4	823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2010	N	3				3						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2010	N	2				2						
Downbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2010	N	7				7						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2010	N	1				1						
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2010		4		4								
Downbound	Domestic	4	823	2750	200.0	35.0	2	14.0	1.5	0.5	215	2010	N	1								1		
Downbound	Domestic	4	783	1450	195.0	35.0	2	9.0	2.0	0.0	190	2010	N	2								2		
Downbound	Domestic	5	001633	3860	300.0	54.0	2	10.0	2.0	0.0	189	2010	N	1										1
Downbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2010		1										1
Downbound	Domestic	4	000764	1648	200.0	35.0	2	12.0	2.0	0.0	208	2010		1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2010		1								1		
Downbound	Domestic	4	000823	2187	200.0	35.0	8	12.0	1.7	6.3	240	2010		1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2010	N	2				2						
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2010		3						3				
Downbound	Domestic	4	823	2469	200.0	35.0	10	14.0	1.6	8.4	250	2010	N	1				1						
Downbound	Domestic	4	687	1465	195.0	35.0	9	9.0	1.8	7.2	175	2010	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2010	N	2				2						
Downbound	Domestic	4	1065	1658	200.0	35.0	9	9.0	1.5	7.5	190	2010	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2010	N	1								1		
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2010	N	9				9						
Downbound	Domestic	4	917	1650	200.0	35.0	8	9.0	1.5	6.5	190	2010	N	2				2						
Downbound	Domestic	4	705	1674	200.0	35.0	9	9.0	1.4	7.6	205	2010		1				1						
Downbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2010	N	1				1						
Downbound	Domestic	5	002424	2213	295.0	50.0	7	9.0	2.5	4.5	280	2010	N	1						1				
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2010	N	1				1						
Downbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2010	N	1				1						
Downbound	Domestic	4	000764	1618	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2010	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2010	N	8				8						
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2010	N	1				1						
Downbound	Domestic	4	729	1883	200.0	35.0	2	10.0	1.5	0.5	176	2010	N	1								1		
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2010	N	4								4		
Downbound	Domestic	4	000764	1615	200.0	35.0	2	12.0	1.8	0.2	170	2010		1								1		
Downbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2010		1								1		
Downbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2010	N	1								1		
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2010		3				3						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2010		5				5						
Downbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2010	N	2				2						
Downbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2010		2				2						
Downbound	Domestic	4	000764	1615	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	2				2						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2010	N	7				7						
Downbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2010	N	4				4						
Downbound	Domestic	4	705	1880	200.0	35.0	9	10.0	1.4	7.6	140	2010	N	1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.5	7.5	217	2010	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	177	2010	N	1								1		
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2010	N	3				3						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	170	2010	N	1				1						
Downbound	Domestic	4	823	2500	200.0	35.0	9	12.0	2.0	7.0	250	2010	N	2				2						
Downbound	Domestic	4	764	1673	200.0	35.0	8	9.0	1.4	6.6	165	2010	N	1				1						
Downbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	183	2010	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2010	N	1				1						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.6	7.4	190	2010	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	950	1663	200.0	35.0	8	9.0	1.6	6.4	145	2010	N	1				1						
Downbound	Domestic	4	697	1729	195.0	35.0	2	10.0	1.5	0.5	176	2010	N	1								1		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2010	N	2								2		
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2010	N	4								4		
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2010		3		3								
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2010		2				2						
Downbound	Domestic	4	950	1650	200.0	35.0	8	9.0	1.5	6.5	190	2010	N	1				1						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2010		4						4				
Downbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2010		21						21				
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2010		2				2						
Downbound	Domestic	4	696	1643	200.1	35.1	8	9.0	1.6	6.4	210	2010	N	1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2010	N	1				1						
Downbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2010	N	2				2						
Downbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2010	N	3				3						
Downbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2010	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2010	N	1				1						
Downbound	Domestic	4	706	1614	200.0	35.0	8	9.0	1.2	6.8	145	2010	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2010	N	1				1						
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2010	N	2				2						
Downbound	Domestic	4	000764	1592	200.0	35.0	9	9.0	2.0	7.0	9999	2010	N	1				1						
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2010	N	2				2						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2010	N	6				6						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2010	N	3				3						
Downbound	Domestic	5	001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2010		4						4				
Downbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2010	N	1				1						
Downbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	169	2010	N	1				1						
Downbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2010	N	1				1						
Downbound	Domestic	4	823	1536	200.0	35.0	9	9.0	1.6	7.4	175	2010	N	1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	8	10.0	1.7	6.3	163	2010	N	1				1						
Downbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2010		1				1						
Downbound	Domestic	4	764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	1				1						
Downbound	Domestic	4	1065	1716	200.0	35.0	2	9.0	1.1	0.9	145	2010	N	1								1		
Downbound	Domestic	4	891	2383	180.0	54.0	2	11.0	1.5	0.5	125	2010		1								1		
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2010	N	1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	147	2010	N	1								1		
Downbound	Domestic	4	764	2187	200.0	35.0	2	12.0	1.7	0.3	240	2010		1								1		
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2010		8				8						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2010		15						15				
Downbound	Domestic	5	1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2010		8						8				
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2010	N	2				2						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2010	N	4				4						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2010	N	4				4						
Downbound	Domestic	4	862	1736	195.0	35.0	8	10.0	1.5	6.5	192	2010	N	1				1						
Downbound	Domestic	4	690	1505	195.0	35.0	9	9.0	1.6	7.4	146	2010	N	1				1						
Downbound	Domestic	4	675	1506	195.0	35.0	7	9.0	1.5	5.5	155	2010	N	1				1						
Downbound	Domestic	5	886	1586	200.0	35.0	2	9.0	1.9	0.1	142	2010	N	1										1
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2010	N	2								2		
Downbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2010		1								1		
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2010		11						11				
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2010	N	5				5						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2010		2				2						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2010		2				2						
Downbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2010	N	2				2						
Downbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2010	N	4				4						
Downbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2010	N	7				7						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	205	2010	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	8	11.0	4.0	4.0	170	2010	N	1				1						
Downbound	Domestic	5	855	1490	195.0	35.0	2	9.0	2.0	0.0	170	2010		3										3
Downbound	Domestic	3	166	999999	95.0	28.0	7	7.0	6.5	0.5	400	2010		1		1								
Downbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2010		1								1		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2010	N	2								2		
Downbound	Domestic	4	705	1648	200.0	35.0	2	12.0	1.5	0.5	186	2010	N	1								1		
Downbound	Domestic	4	574	1526	195.0	35.0	2	9.0	1.6	0.4	140	2010	N	1								1		
Downbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2010	N	1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2010		1				1						
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2010		3				3						
Downbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2010	N	2				2						
Downbound	Domestic	4	823	2750	200.0	35.0	9	14.0	1.6	7.4	250	2010	N	1				1						
Downbound	Domestic	4	690	2415	195.0	35.0	8	10.0	2.0	6.0	146	2010	N	2				2						
Downbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2010	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2010	N	4				4						
Downbound	Domestic	4	770	1889	200.0	35.0	7	10.0	1.5	5.5	149	2010	N	1				1						
Downbound	Domestic	4	823	2289	200.0	35.0	9	12.0	1.6	7.4	240	2010	N	1				1						
Downbound	Domestic	3	204	999999	156.0	38.0	7	6.5	6.5	0.5	363	2010		1		1								
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2010	N	2								2		
Downbound	Domestic	4	698	1475	195.0	35.0	2	9.0	1.6	0.4	189	2010	N	4								4		
Downbound	Domestic	4	000764	1935	200.0	35.0	2	11.0	1.8	0.2	195	2010		1								1		
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2010		2				2						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2010	N	19				19						
Downbound	Domestic	4	688	1912	195.0	35.0	9	10.0	1.7	7.3	160	2010	N	2				2						
Downbound	Domestic	4	823	2300	200.0	35.0	9	12.0	1.6	7.4	150	2010	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	3				3						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2010		2				2						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2010	N	2				2						
Downbound	Domestic	4	687	1468	195.0	35.0	8	9.0	1.9	6.1	173	2010	N	4				4						
Downbound	Domestic	4	706	1659	200.0	35.0	8	9.0	1.5	6.5	160	2010	N	1				1						
Downbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2010	N	2				2						
Downbound	Domestic	5	001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2010		1						1				
Downbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2010	N	1				1						
Downbound	Domestic	4	764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2010	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2010	N	1				1						
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2010	N	1				1						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2010		9		9								
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2010	N	2								2		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2010	N	1								1		
Downbound	Domestic	5	001619	3100	297.6	54.0	9	10.0	2.0	7.0	220	2010		1						1				
Downbound	Domestic	4	888	1479	195.0	35.0	8	9.0	1.8	6.2	180	2010	N	1				1						
Downbound	Domestic	4	823	1536	200.0	35.0	9	9.0	1.5	7.5	175	2010	N	1				1						
Downbound	Domestic	5	1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2010		3						3				
Downbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2010	N	1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2010	N	3				3						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2010	N	3				3						
Downbound	Domestic	4	764	1552	200.0	35.0	9	9.0	1.5	7.5	163	2010	N	1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2010	N	1				1						
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2010		1		1								
Downbound	Domestic	4	687	1633	195.0	35.0	2	9.0	1.4	0.6	133	2010	N	1								1		
Downbound	Domestic	4	764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2010	N	1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2010	N	1								1		
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	1.5	0.5	192	2010	N	1								1		
Downbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2010	N	1								1		
Downbound	Domestic	3	000433	637	136.0	40.0	8	10.3	8.6	-0.6	420	2010		1		1								
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2010		4				4						
Downbound	Domestic	4	000764	2600	200.0	35.0	13	9.0	1.6	11.4	200	2010		1				1						
Downbound	Domestic	4	000705	1650	200.0	35.0	8	12.0	1.5	6.5	208	2010	N	2				2						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2010	N	5				5						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2010	N	2				2						
Downbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2010	N	1				1						
Downbound	Domestic	4	764	1554	200.0	35.0	9	9.0	1.5	7.5	170	2010	N	1				1						
Downbound	Domestic	4	000705	1625	200.0	35.0	8	9.0	2.0	6.0	231	2010	N	1				1						
Downbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2010	N	1				1						
Downbound	Domestic	4	000764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2010	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2010	N	3				3						
Downbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2010	N	2				2						
Downbound	Domestic	4	000764	1500	200.0	35.0	11	10.5	1.5	9.5	130	2010		1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2010	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2010	N	2								2		
Downbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2010		5		5								
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2010		2				2						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2010	N	1				1						
Downbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2010		2				2						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2010		5				5						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2010	N	2				2						
Downbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2010	N	5				5						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	2				2						
Downbound	Domestic	5	1960	3694	297.0	54.0	2	10.0	2.0	0.0	185	2010	N	2										2
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2010	N	1				1						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2010	N	2				2						
Downbound	Domestic	4	764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2010	N	1				1						
Downbound	Domestic	4	1020	1644	200.0	35.0	8	9.0	1.6	6.4	166	2010	N	1				1						
Downbound	Domestic	5	855	1490	195.0	35.0	2	9.5	2.0	0.0	170	2010		1										1
Downbound	Domestic	5	800	1400	195.0	35.0	2	9.0	1.8	0.2	183	2010	N	1										1
Downbound	Domestic	5	747	1750	200.0	35.0	2	9.3	2.0	0.0	190	2010	N	1										1
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2010	N	23				23						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2010		4				4						
Downbound	Domestic	4	1020	1854	200.0	35.0	8	10.0	1.6	6.4	167	2010		2				2						
Downbound	Domestic	4	747	1500	195.0	35.0	8	9.0	1.6	6.4	136	2010	N	4				4						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2010	N	3				3						
Downbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2010	N	1				1						
Downbound	Domestic	4	745	1524	195.0	35.0	8	9.0	1.5	6.5	157	2010	N	1				1						
Downbound	Domestic	4	687	1468	195.0	35.0	9	9.0	1.9	7.1	173	2010	N	1				1						
Downbound	Domestic	4	692	1465	195.0	35.0	8	9.0	1.8	6.2	175	2010	N	1				1						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2010	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2010	N	2				2						
Downbound	Domestic	4	823	2739	200.0	35.0	5	12.0	1.6	3.4	250	2010		1				1						
Downbound	Domestic	5	835	1426	195.0	35.0	2	9.0	2.1	-0.1	136	2010	N	2										2
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2010	N	5				5						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2010	N	10				10						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2010		7				7						
Downbound	Domestic	4	696	1644	200.0	35.0	8	9.0	1.6	6.4	180	2010	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2010	N	16				16						
Downbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2010	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2010	N	2				2						
Downbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2010	N	3				3						
Downbound	Domestic	4	1664	2010	200.0	35.0	9	10.6	1.3	7.7	220	2010		1				1						
Downbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2010	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	8	9.0	2.0	6.0	130	2010	N	1				1						
Downbound	Domestic	4	000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2010	N	1								1		
Downbound	Domestic	5	723	1481	195.0	35.0	3	9.2	2.5	0.5	186	2010	N	1										1
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	1.5	8.5	180	2010		4						4				
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2010	N	1				1						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2010	N	3				3						
Downbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2010	N	2				2						
Downbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2010	N	1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2010	N	3				3						
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2010		1				1						
Downbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2010	N	1				1						
Downbound	Domestic	4	823	2469	200.0	35.0	10	14.0	2.0	8.0	191	2010	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2010	N	2				2						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2010	N	1				1						
Downbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2010	N	1				1						
Downbound	Domestic	4	723	1875	200.0	35.0	9	10.0	1.7	7.3	163	2010	N	1				1						
Downbound	Domestic	4	901	1450	195.0	35.0	2	9.0	1.5	0.5	190	2010	N	3								3		
Downbound	Domestic	4	764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2010		6								6		
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2010	N	4								4		
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2010	N	1								1		
Downbound	Domestic	4	764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2010		2				2						
Downbound	Domestic	4	823	2319	200.0	35.0	3	12.0	1.3	1.7	227	2010		4								4		
Downbound	Domestic	4	687	1515	195.0	35.0	9	9.0	1.5	7.5	187	2010	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2010		2				2						
Downbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2010	N	1				1						
Downbound	Domestic	4	625	1500	195.0	35.0	8	9.0	1.6	6.4	149	2010	N	1				1						
Downbound	Domestic	4	1065	1676	200.0	35.0	8	9.0	1.3	6.7	145	2010	N	1				1						
Downbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.1	6.9	194	2010	N	2				2						
Downbound	Domestic	5	2424	2642	295.0	50.0	2	9.0	2.0	0.0	250	2010	N	1										1
Downbound	Domestic	4	696	1643	200.1	35.1	9	9.0	1.6	7.4	210	2010	N	3				3						
Downbound	Domestic	4	745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2010	N	9				9						
Downbound	Domestic	4	716	1500	195.0	35.0	9	9.0	1.5	7.5	136	2010	N	1				1						
Downbound	Domestic	5	1816	5450	356.0	54.0	7	13.0	2.0	5.0	220	2010		0						0				
Downbound	Domestic	4	823	1634	200.0	35.0	9	9.0	1.5	7.5	175	2010	N	1				1						
Downbound	Domestic	5	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2010	N	1										1
Downbound	Domestic	4	823	1542	200.0	35.0	2	9.0	1.6	0.4	170	2010	N	1								1		
Downbound	Domestic	3	402	999999	140.8	43.3	8	11.0	8.0	0.0	453	2010	N	1		1								
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2010		7				7						
Downbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2010		1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2010	N	2				2						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2010	N	4				4						
Downbound	Domestic	4	764	1610	200.0	35.0	9	9.0	1.5	7.5	165	2010	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2010	N	1				1						
Downbound	Domestic	5	2482	2500	293.0	50.0	10	9.0	2.0	8.0	220	2010		2						2				
Downbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2010		1				1						
Downbound	Domestic	4	764	1617	200.0	35.0	8	9.0	1.4	6.6	160	2010	N	1				1						
Downbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2010	N	1				1						
Downbound	Domestic	4	909	1445	195.0	35.0	8	9.0	1.9	6.1	203	2010	N	1				1						
Downbound	Domestic	4	690	1505	195.0	35.0	8	9.0	1.6	6.4	146	2010	N	1				1						
Downbound	Domestic	4	705	1645	200.0	35.0	9	9.0	1.5	7.5	210	2010	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	9999	2010	N	1				1						
Downbound	Domestic	4	000432	1296	105.0	35.0	8	10.0	2.0	6.0	9999	2010	N	1				1						
Downbound	Domestic	4	000764	1657	200.0	35.0	11	9.0	3.0	8.0	9999	2010	N	1				1						
Downbound	Domestic	4	1020	1600	200.0	35.0	9	9.0	1.4	7.6	193	2010	N	1				1						
Downbound	Domestic	4	710	2485	200.0	35.0	8	10.0	2.0	6.0	147	2010	N	1				1						
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2010	N	1										1
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2010		5				5						
Downbound	Domestic	4	950	1500	200.0	35.0	8	9.0	1.6	6.4	149	2010	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2010	N	3				3						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2010	N	1				1						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2010	N	4				4						
Downbound	Domestic	4	000764	1546	200.0	35.0	9	9.0	1.6	7.4	205	2010	N	1				1						
Downbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2010	N	2				2						
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2010		2				2						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2010		11						11				
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2010	N	1				1						
Downbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2010	N	2				2						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2010	N	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.9	7.1	220	2010	N	1				1						
Downbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2010	N	1				1						
Downbound	Domestic	4	000964	1642	200.0	35.0	9	9.0	1.5	7.5	145	2010	N	1				1						
Downbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2010		5		5								
Downbound	Domestic	4	867	1323	195.1	35.1	9	8.7	2.2	6.8	175	2010		1				1						
Downbound	Domestic	4	705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2010	N	9				9						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	11.0	1.8	7.2	170	2010		1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2010	N	19				19						
Downbound	Domestic	4	1039	1623	200.0	35.0	8	9.0	1.7	6.3	146	2010	N	2				2						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2010	N	2				2						
Downbound	Domestic	4	872	2000	200.0	35.0	7	9.0	1.4	5.6	160	2010	N	2				2						
Downbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2010	N	1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	185	2010	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2010	N	1				1						
Downbound	Domestic	5	795	1475	195.0	35.0	2	9.0	1.8	0.2	178	2010	N	1										1
Downbound	Domestic	3	000219	322	120.0	35.0	8	10.0	8.0	0.0	290	2010		1		1								
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2010		5				5						
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2010	N	2				2						
Downbound	Domestic	4	705	1651	200.0	35.0	8	9.0	2.0	6.0	196	2010	N	2				2						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	5				5						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2010	N	4				4						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2010	N	2				2						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2010	N	3				3						
Downbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2010	N	1				1						
Downbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2010	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	9.0	2.0	10.0	9999	2010	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.3	6.7	213	2010	N	2				2						
Downbound	Domestic	4	000764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2010	N	1								1		
Downbound	Domestic	4	182	500	110.0	32.0	2	6.0	1.5	0.5	80	2010	N	1								1		
Downbound	Domestic	4	909	1485	195.0	35.0	8	9.0	1.7	6.3	203	2010	N	2				2						
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2010	N	6				6						
Downbound	Domestic	4	823	1641	200.0	35.0	9	9.0	1.6	7.4	160	2010	N	2				2						
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2010	N	1				1						
Downbound	Domestic	4	000764	1625	200.0	35.0	13	9.0	3.0	10.0	9999	2010	N	1				1						
Downbound	Domestic	5	740	1687	200.0	35.0	2	9.6	2.0	0.0	150	2010		1										1
Downbound	Domestic	4	823	1627	200.0	35.0	2	12.0	1.8	0.2	230	2010		1								1		
Downbound	Domestic	4	994	1475	195.0	35.0	2	9.0	1.6	0.4	189	2010	N	2								2		
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2010		2				2						
Downbound	Domestic	4	685	1728	195.0	35.0	8	10.0	1.6	6.4	176	2010	N	1				1						
Downbound	Domestic	4	922	1842	200.0	35.0	9	10.0	1.8	7.2	210	2010	N	1				1						
Downbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2010	N	1				1						
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2010	N	2				2						
Downbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2010	N	1				1						
Downbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2010	N	1										1
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2010	N	1				1						
Downbound	Domestic	3	135	999999	81.0	30.0	7	10.6	8.6	-1.6	430	2010		1		1								
Downbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2010	N	1								1		
Downbound	Domestic	4	1046	1904	195.0	35.0	8	11.0	1.8	6.2	191	2010		1				1						
Downbound	Domestic	5	001619	3100	297.5	54.0	9	10.0	2.0	7.0	220	2010		1						1				
Downbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2010		1				1						
Downbound	Domestic	4	546	1900	200.0	35.0	8	9.0	2.0	6.0	190	2010	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2010	N	1				1						
Downbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2010	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2010	N	2				2						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2010	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2010	N	1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2010	N	2								2		
Downbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2010	N	1								1		
Downbound	Domestic	4	000764	1533	200.0	35.0	2	9.0	1.6	0.4	230	2010	N	1								1		
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2010	N	7				7						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	214	2010		1				1						
Downbound	Domestic	4	000764	2202	200.0	35.0	9	13.0	2.0	7.0	208	2010		1				1						
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2010	N	3				3						
Downbound	Domestic	4	823	1643	200.0	35.0	11	11.0	1.5	9.5	9999	2010	N	2				2						
Downbound	Domestic	4	741	2047	200.0	35.0	9	11.0	1.8	7.2	193	2010		1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2010		5				5						
Downbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	180	2010		2				2						
Downbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2010	N	2				2						
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2010	N	17				17						
Downbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2010	N	1				1						
Downbound	Domestic	4	710	1654	200.0	35.0	8	9.0	1.5	6.5	147	2010	N	3				3						
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2010	N	5								5		
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2010	N	6										6
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2010	N	1								1		
Downbound	Domestic	4	701	1519	195.0	35.0	2	9.0	1.5	0.5	192	2010	N	1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2010	N	7				7						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2010		7				7						
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2010		5				5						
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2010	N	9				9						
Downbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2010		1				1						
Downbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2010	N	3				3						
Downbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2010	N	1				1						
Downbound	Domestic	4	630	1450	195.0	35.0	8	8.0	1.5	6.5	136	2010	N	7				7						
Downbound	Domestic	4	000705	2200	200.0	35.0	8	9.0	1.5	6.5	217	2010	N	1				1						
Downbound	Domestic	4	823	1627	200.0	35.0	12	12.0	1.8	10.2	230	2010	N	1				1						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2010		1						1				
Downbound	Domestic	5	001918	3100	297.5	54.0	8	10.3	2.0	6.0	193	2010		1						1				
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2010	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2010		29		29								
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2010	N	8								8		
Downbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2010	N	1								1		
Downbound	Domestic	3	000102	342	110.0	32.0	8	10.3	8.6	-0.6	400	2010		1		1								
Downbound	Domestic	4	687	1577	195.0	35.0	2	9.0	1.8	0.2	170	2010	N	1								1		
Downbound	Domestic	4	000764	1862	200.0	35.0	3	10.0	1.5	1.5	191	2010	N	1								1		
Downbound	Domestic	4	687	1577	195.0	35.0	2	9.0	1.5	0.5	170	2010	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2010		3				3						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2010	N	1								1		
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2010	N	1				1						
Downbound	Domestic	4	000823	1530	200.0	35.0	9	9.0	1.6	7.4	180	2010	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2010	N	1				1						
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2010	N	6								6		
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2010		3				3						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2010		5				5						
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2010		1						1				
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2010	N	6				6						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2010	N	8				8						
Downbound	Domestic	4	747	1500	195.0	35.0	9	9.0	1.6	7.4	136	2010	N	6				6						
Downbound	Domestic	4	705	1653	200.0	35.0	8	9.0	1.5	6.5	218	2010	N	2				2						
Downbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2010		1				1						
Downbound	Domestic	4	676	1725	195.0	35.0	8	10.0	1.6	6.4	200	2010		1				1						
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2010		14		14								
Downbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2010	N	2				2						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2010		1				1						
Downbound	Domestic	4	764	1855	200.0	35.0	9	10.0	1.5	7.5	165	2010		1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2010	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2010	N	9				9						
Downbound	Domestic	4	952	1716	200.0	35.0	8	9.0	1.1	6.9	145	2010	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2010	N	8				8						
Downbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2010	N	2				2						
Downbound	Domestic	4	823	1627	200.0	35.0	13	12.0	1.8	11.2	230	2010	N	2				2						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2010	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2010	N	2				2						
Downbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2010	N	1				1						
Downbound	Domestic	4	688	1519	195.0	35.0	8	9.0	1.6	6.4	160	2010	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2010		1				1						
Downbound	Domestic	4	676	1912	195.0	35.0	9	11.0	1.8	7.2	180	2010		1				1						
Downbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2010	N	1				1						
Downbound	Domestic	4	705	1617	200.0	35.0	7	9.0	1.6	5.4	205	2010	N	1				1						
Downbound	Domestic	5	001619	3444	297.0	54.0	8	10.0	0.6	7.4	280	2010		1						1				
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2010		20		20								
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2010		14		14								
Downbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2010	N	2								2		
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	1.6	0.4	220	2010	N	1								1		
Downbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2010		1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2010	N	5				5						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2010	N	1				1						
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2010	N	3				3						
Downbound	Domestic	4	706	1659	200.0	35.0	9	9.0	1.5	7.5	160	2010	N	1				1						
Downbound	Domestic	4	687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2010		1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2010	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2010	N	1				1						
Downbound	Domestic	4	794	1625	200.0	35.0	8	9.0	1.6	6.4	146	2010	N	1				1						
Downbound	Domestic	4	939	1520	195.0	35.0	8	9.0	1.6	6.4	160	2010	N	1				1						
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2010		1				1						
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2010		13		13								
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2010		5		5								
Downbound	Domestic	3	64	64	64.0	26.0	6	7.5	6.0	0.0	496	2010		1		1								
Downbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2010	N	1				1						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	21				21						
Downbound	Domestic	4	676	1725	195.0	35.0	9	10.0	1.6	7.4	200	2010		1				1						
Downbound	Domestic	4	823	1627	200.0	35.0	13	13.0	1.8	11.2	230	2010	N	1				1						
Downbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2010	N	1				1						
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2010	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2010	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2010	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2010	N	5								5		
Downbound	Domestic	4	000745	2090	195.0	35.0	2	11.0	1.8	0.2	170	2010		5								5		
Downbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2010		2		2								
Downbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2010	N	1								1		
Downbound	Domestic	4	000764	2468	200.0	35.0	12	13.0	1.5	10.5	208	2010		1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2010	N	8				8						
Downbound	Domestic	4	687	2061	195.0	35.0	7	9.0	1.5	5.5	160	2010	N	4				4						
Downbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2010	N	2				2						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2010	N	4								4		
Downbound	Domestic	4	823	1825	200.0	35.0	8	9.0	1.7	6.3	210	2010	N	1				1						
Downbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2010	N	1				1						
Downbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2010	N	4				4						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2010	N	1				1						
Downbound	Domestic	4	770	1889	200.0	35.0	6	10.0	1.5	4.5	149	2010	N	1				1						
Downbound	Domestic	4	688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2010	N	2				2						
Downbound	Domestic	4	834	1500	195.0	35.0	9	10.0	1.7	7.3	191	2010	N	1				1						
Downbound	Domestic	4	1009	1636	195.0	35.0	2	9.0	1.6	0.4	193	2010	N	1								1		
Downbound	Domestic	4	774	1450	195.0	35.0	2	9.0	1.5	0.5	190	2010	N	2								2		
Downbound	Domestic	5	773	1428	195.1	35.1	2	8.7	1.7	0.3	170	2010	N	1										1
Downbound	Domestic	4	823	2469	200.0	35.0	2	13.0	1.8	0.2	230	2010	N	1								1		
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2010		6				6						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2010		2				2						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2010		2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2010	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2010	N	4				4						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2010	N	3				3						
Downbound	Domestic	4	823	2732	200.0	35.0	9	12.0	1.6	7.4	250	2010	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2010	N	3				3						
Downbound	Domestic	4	000764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2010	N	1				1						
Downbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	160	2010	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2010	N	3				3						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2010	N	4				4						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2010	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2010	N	1				1						
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	149	2010	N	1				1						
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2010	N	1				1						
Downbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2010	N	1				1						
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2010		37		37								
Downbound	Domestic	3	999999	999999	72.7	24.1	2	6.0	6.0	-4.0	336	2010	N	1		1								
Downbound	Domestic	4	764	1865	200.0	35.0	2	12.0	1.5	0.5	208	2010	N	1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	2.0	0.0	9999	2010	N	1								1		
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2010		1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2010	N	2				2						
Downbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2010	N	1				1						
Downbound	Domestic	4	705	1889	200.0	35.0	9	10.0	1.4	7.6	140	2010	N	2				2						
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2010	N	2				2						
Downbound	Domestic	5	891	1591	200.0	35.0	2	9.0	1.9	0.1	225	2010	N	2										2
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2010	N	1								1		
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2010	N	2										2
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2010	N	2								2		
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2010	N	9				9						
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2010	N	7				7						
Downbound	Domestic	4	848	1524	195.0	35.0	9	9.0	1.6	7.4	185	2010	N	3				3						
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2010	N	6				6						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2010	N	20				20						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	150	2010	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2010	N	1				1						
Downbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2010	N	2				2						
Downbound	Domestic	4	862	1725	195.0	35.0	2	10.0	2.0	0.0	192	2010	N	1								1		
Downbound	Domestic	5	716	1464	195.0	35.0	2	9.0	1.1	0.9	209	2010	N	1										1
Downbound	Domestic	4	000764	1653	200.0	35.0	2	9.0	2.0	0.0	210	2010	N	1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	13	12.0	1.5	11.5	208	2010	N	1				1						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2010	N	4				4						
Downbound	Domestic	4	933	1527	195.0	35.0	12	11.0	1.5	10.5	199	2010	N	2				2						
Downbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2010		1				1						
Downbound	Domestic	5	001754	4531	297.5	54.0	8	10.0	1.9	6.1	220	2010		2						2				
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2010	N	1				1						
Downbound	Domestic	4	000764	1800	200.0	35.0	14	10.0	3.0	11.0	9999	2010	N	1				1						
Downbound	Domestic	4	823	2469	200.0	35.0	5	14.0	1.6	3.4	250	2010		1				1						
Downbound	Domestic	4	706	1879	200.0	35.0	8	10.0	1.5	6.5	160	2010	N	1				1						
Downbound	Domestic	4	966	1600	200.0	35.0	9	9.0	1.4	7.6	193	2010	N	1				1						
Downbound	Domestic	4	001020	1633	200.0	35.0	8	9.0	1.6	6.4	149	2010	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2010		9				9						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2010		3				3						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2010		1				1						
Downbound	Domestic	4	000764	2187	200.0	35.0	8	12.0	1.7	6.3	210	2010		1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2010	N	5				5						
Downbound	Domestic	4	000706	1557	200.0	35.0	9	9.0	1.6	7.4	205	2010	N	1				1						
Downbound	Domestic	4	922	1842	200.0	35.0	8	10.0	1.8	6.2	210	2010	N	2				2						
Downbound	Domestic	4	800	1699	195.0	35.0	8	10.0	1.8	6.2	164	2010		1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2010	N	14				14						
Downbound	Domestic	5	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2010	N	1						1				
Downbound	Domestic	4	764	1744	200.0	35.0	9	10.0	1.7	7.3	209	2010	N	2				2						
Downbound	Domestic	4	000764	1865	200.0	35.0	8	10.0	1.5	6.5	139	2010	N	2				2						
Downbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2010	N	3				3						
Downbound	Domestic	4	966	1642	200.0	35.0	9	9.0	1.5	7.5	193	2010	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	11	10.0	1.5	9.5	208	2010	N	1				1						
Downbound	Domestic	4	706	1650	200.0	35.0	9	9.0	1.5	7.5	196	2010	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	155	2010	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	1869	2010	N	1				1						
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2010		22		22								
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.5	0.5	190	2010	N	1								1		
Downbound	Domestic	4	1006	1902	195.0	35.0	8	11.0	1.9	6.1	199	2010		2				2						
Downbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2010		1				1						
Downbound	Domestic	4	1046	1904	195.0	35.0	9	11.0	1.8	7.2	191	2010		3				3						
Downbound	Domestic	5	2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2010		3						3				
Downbound	Domestic	4	000764	764	200.0	35.0	9	9.0	2.0	7.0	196	2010		12				12						
Downbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2010	N	1				1						
Downbound	Domestic	4	000764	1865	200.0	35.0	9	10.0	1.5	7.5	139	2010	N	1				1						
Downbound	Domestic	4	823	2187	200.0	35.0	9	12.0	1.7	7.3	240	2010		1				1						
Downbound	Domestic	4	848	1524	195.0	35.0	2	9.0	1.6	0.4	185	2010	N	2								2		
Downbound	Domestic	4	685	1550	195.0	35.0	2	9.0	1.5	0.5	190	2010	N	1								1		
Downbound	Domestic	4	823	2300	200.0	35.0	2	12.0	1.6	0.4	150	2010	N	1								1		
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2011	N	1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2011		2			2							
Upbound	Domestic	4	000705	1618	200.0	35.0	8	9.0	1.6	6.4	210	2011	N	1			1							
Upbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	1							1			
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2011	N	3			3							
Upbound	Domestic	4	764	1537	200.0	35.0	9	9.0	1.8	7.2	225	2011	N	2			2							
Upbound	Domestic	4	000745	1497	195.0	35.0	7	9.0	1.6	5.4	139	2011	N	1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	7	9.0	1.5	5.5	225	2011	N	1			1							
Upbound	Domestic	4	675	1506	195.0	35.0	7	9.0	1.5	5.5	155	2011	N	1			1							
Upbound	Domestic	3	135	999999	81.0	30.0	7	10.6	8.6	-1.6	430	2011		1		1								
Upbound	Domestic	5	001754	4444	297.5	54.0	2	11.0	2.0	0.0	200	2011	N	3									3	
Upbound	Domestic	5	1634	2900	264.0	54.0	10	10.0	2.0	8.0	180	2011		1					1					
Upbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2011		1		1								
Upbound	Domestic	3	000262	999999	109.8	34.0	8	8.0	6.0	2.0	480	2011	N	1		1								
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.6	6.4	215	2011	N	1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2011	N	1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2011	N	14			14							
Upbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2011	N	2			2							
Upbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2011	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	177	2011	N	1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2011	N	1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2011	N	2			2							
Upbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2011	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	6	10.0	1.5	4.5	191	2011	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2011	N	1							1			
Upbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2011	N	1							1			
Upbound	Domestic	4	975	1449	195.0	35.0	2	9.0	1.9	0.1	203	2011	N	1							1			
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2011	N	2							2			
Upbound	Domestic	3	108	999999	58.0	22.0	7	7.0	6.5	0.5	340	2011		1		1								
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2011		1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2011	N	35			35							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2011	N	2			2							
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2011		7			7							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	9			9							
Upbound	Domestic	4	713	1550	200.0	35.0	8	9.0	1.2	6.8	190	2011	N	1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	5	9.0	1.3	3.7	145	2011	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2011	N	2			2							
Upbound	Domestic	4	705	1609	200.0	35.0	9	9.0	1.7	7.3	175	2011	N	1			1							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2011	N	5			5							
Upbound	Domestic	4	000764	2060	200.0	35.0	8	11.0	1.8	6.2	195	2011		1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2011	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2011	N	2							2			
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2011	N	1			1							
Upbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2011	N	3									3	
Upbound	Domestic	5	001632	3000	300.0	54.0	2	12.0	2.0	0.0	189	2011	N	4									4	
Upbound	Domestic	5	1876	3400	297.5	54.0	2	10.0	2.0	0.0	170	2011		3									3	
Upbound	Domestic	4	910	1466	195.1	35.1	2	9.0	1.9	0.1	185	2011	N	1							1			
Upbound	Domestic	4	823	1641	200.0	35.0	2	9.0	1.4	0.6	160	2011	N	1							1			
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2011		1			1							
Upbound	Domestic	4	000764	1956	200.0	35.0	9	9.0	2.0	7.0	196	2011	N	1			1							
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2011	N	14			14							
Upbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2011	N	1			1							
Upbound	Domestic	4	000764	2501	200.0	35.0	12	10.0	1.5	10.5	186	2011	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	13.0	8	15.0	3.0	5.0	9999	2011	N	2			2							
Upbound	Domestic	4	000764	1865	200.0	35.0	9	10.0	1.5	7.5	139	2011	N	1			1							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2011	N	5			5							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2011	N	3			3							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2011	N	2			2							
Upbound	Domestic	4	1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2011	N	4			4							
Upbound	Domestic	4	546	1665	200.0	35.0	8	9.0	2.0	6.0	190	2011	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2011	N	1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.5	6.5	217	2011	N	1			1							
Upbound	Domestic	4	764	2400	200.0	35.0	7	9.0	1.5	5.5	225	2011	N	1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	2	10.0	1.5	0.5	194	2011		1							1			
Upbound	Domestic	3	62	999999	85.6	27.4	7	8.0	6.5	0.5	149	2011		1		1								
Upbound	Domestic	4	848	1511	195.0	35.0	2	9.0	1.6	0.4	149	2011	N	1							1			
Upbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2011		1		1								
Upbound	Domestic	3	202	999999	80.9	29.1	7	11.2	9.7	-2.7	450	2011		1		1								
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2011		3			3							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2011	N	11			11							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2011		2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2011		3			3							
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2011	N	6			6							
Upbound	Domestic	4	687	1501	195.0	35.0	12	12.0	1.5	10.5	186	2011	N	1			1							
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	2			2							
Upbound	Domestic	4	764	2187	200.0	35.0	8	11.0	1.7	6.3	240	2011		1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2011	N	1			1							
Upbound	Domestic	5	2700	2500	281.0	50.0	3	9.0	2.5	0.5	230	2011		4									4	
Upbound	Domestic	4	942	1902	195.0	35.0	2	11.0	1.8	0.2	180	2011		1							1			
Upbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.8	0.2	189	2011	N	2							2			
Upbound	Domestic	5	1619	4048	297.5	54.0	2	11.5	2.0	0.0	190	2011		6									6	
Upbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	223	2011	N	1							1			
Upbound	Domestic	5	1659	2500	295.0	54.0	2	9.0	2.0	0.0	90	2011		1									1	
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	165	2011		1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2011		2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2011	N	15			15							
Upbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2011	N	2			2							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2011	N	2			2							
Upbound	Domestic	4	000705	1650	200.0	35.0	7	12.0	1.5	5.5	208	2011	N	1			1							
Upbound	Domestic	4	000764	1556	200.0	35.0	9	9.0	1.6	7.4	225	2011	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	155	2011	N	1			1							
Upbound	Domestic	4	705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2011	N	2			2							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2011	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	6	9.0	1.6	4.4	160	2011	N	1			1							
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2011		3		3								
Upbound	Domestic	4	1223	1651	200.0	35.0	2	8.9	1.5	0.5	190	2011	N	1							1			
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.5	0.5	190	2011	N	2							2			
Upbound	Domestic	3	414	999999	110.0	32.0	8	9.0	7.5	0.5	450	2011	N	1		1								
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2011	N	37			37							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2011	N	23			23							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2011	N	11			11							
Upbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2011	N	1			1							
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2011	N	2							2			
Upbound	Domestic	4	705	1889	200.0	35.0	7	10.0	1.4	5.6	140	2011	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2011	N	13			13							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2011	N	1			1							
Upbound	Domestic	5	835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2011	N	1					1					
Upbound	Domestic	4	705	1662	200.0	35.0	8	9.0	1.6	6.4	208	2011	N	1			1							
Upbound	Domestic	5	001754	3665	297.5	54.0	8	12.0	2.0	6.0	180	2011		1					1					
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2011	N	2			2							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2011	N	3			3							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2011	N	8			8							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2011	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2011		3			3							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2011	N	2			2							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	190	2011	N	2			2							
Upbound	Domestic	4	705	1570	200.0	35.0	8	9.0	1.5	6.5	150	2011	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2011		3			3							
Upbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2011	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2011	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2011	N	1			1							
Upbound	Domestic	3	101	999999	95.0	32.0	8	10.5	8.0	0.0	430	2011	N	1		1								
Upbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.5	0.5	225	2011	N	1							1			
Upbound	Domestic	5	001619	3891	297.5	54.0	2	10.5	1.5	0.5	175	2011		4									4	
Upbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2011	N	3			3							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2011		5			5							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2011	N	3			3							
Upbound	Domestic	4	764	1610	200.0	35.0	8	9.0	1.6	6.4	165	2011	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2011	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2011	N	1			1							
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2011	N	2			2							
Upbound	Domestic	5	1551	4750	297.5	54.0	9	9.3	2.0	7.0	224	2011	N	1					1					
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2011	N	2			2							
Upbound	Domestic	4	000764	1590	200.0	35.0	10	9.0	3.0	7.0	9999	2011	N	1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2011	N	1			1							
Upbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.0	8.0	194	2011	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2011		3			3							
Upbound	Domestic	5	716	1450	195.0	35.0	7	8.5	2.7	4.3	145	2011		1					1					
Upbound	Domestic	4	630	1450	195.0	35.0	2	8.0	1.5	0.5	136	2011	N	1							1			
Upbound	Domestic	5	1697	1800	296.7	54.0	2	9.0	1.6	0.4	90	2011		3									3	
Upbound	Domestic	5	1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2011		4									4	
Upbound	Domestic	4	1013	1520	195.0	35.0	2	8.7	1.6	0.4	211	2011	N	1							1			
Upbound	Domestic	4	705	1660	200.0	35.0	2	9.0	1.3	0.7	213	2011	N	1							1			
Upbound	Domestic	4	000687	1504	195.0	35.0	2	9.0	1.6	0.4	205	2011	N	1							1			
Upbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2011	N	1							1			
Upbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2011	N	1							1			
Upbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2011		1		1								
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2011		1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	8	12.0	1.5	6.5	208	2011	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2011		5			5							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2011	N	4			4							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2011	N	2			2							
Upbound	Domestic	5	001619	3517	297.0	54.0	10	10.0	0.6	9.4	280	2011		1					1					
Upbound	Domestic	5	795	1475	195.0	35.0	8	9.0	1.8	6.2	178	2011	N	2					2					
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2011	N	2			2							
Upbound	Domestic	4	000706	1569	200.0	35.0	7	9.0	1.6	5.4	205	2011	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	10	12.0	2.0	8.0	208	2011		1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2011	N	3			3							
Upbound	Domestic	4	676	1912	195.0	35.0	2	11.0	1.8	0.2	180	2011		1							1			
Upbound	Domestic	4	1019	1449	195.0	35.0	2	9.0	1.9	0.1	203	2011	N	1							1			
Upbound	Domestic	5	001633	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2011	N	3									3	
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2011		2			2							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2011		1			1							
Upbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2011	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2011	N	2			2							
Upbound	Domestic	4	745	1714	195.0	35.0	5	9.0	1.6	3.4	210	2011	N	1			1							
Upbound	Domestic	4	687	1605	195.0	35.0	9	9.5	0.5	8.5	146	2011	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2011	N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2011	N	2			2							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	14			14							
Upbound	Domestic	5	1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2011		7									7	
Upbound	Domestic	5	001754	3694	297.0	54.0	2	10.0	2.0	0.0	185	2011	N	1									1	
Upbound	Domestic	3	000288	999999	96.0	34.0	10	10.0	10.0	0.0	436	2011		1		1								
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2011	N	3			3							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2011		2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2011	N	6			6							
Upbound	Domestic	4	1056	2826	240.0	50.0	5	9.0	2.0	3.0	110	2011		1			1							
Upbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2011		1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	1.7	7.3	240	2011	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	13.0	1.5	9.5	208	2011	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	5	10.0	1.6	3.4	210	2011	N	1			1							
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2011		6		6								
Upbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2011	N	1							1			
Upbound	Domestic	4	986	1477	195.0	35.0	2	9.0	1.8	0.2	205	2011	N	2							2			
Upbound	Domestic	4	1063	1627	200.0	35.0	2	9.0	1.6	0.4	170	2011	N	2							2			
Upbound	Domestic	3	402	999999	140.8	43.3	8	11.0	8.0	0.0	453	2011	N	3		3								
Upbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2011	N	4							4			
Upbound	Domestic	4	909	1485	195.0	35.0	2	9.0	1.9	0.1	203	2011	N	1							1			
Upbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2011	N	2			2							
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2011	N	19			19							
Upbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2011	N	2			2							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2011	N	3			3							
Upbound	Domestic	5	001632	3526	300.0	54.0	9	10.0	2.3	6.7	189	2011	N	1					1					
Upbound	Domestic	4	764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2011	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	12.0	1.6	6.4	200	2011	N	1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2011	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2011	N	1			1							
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2011		3		3								
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2011	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	910	1449	195.0	35.0	2	9.0	1.9	0.1	203	2011	N	2							2			
Upbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2011	N	2							2			
Upbound	Domestic	4	003195	1664	200.0	35.0	2	9.0	1.4	0.6	145	2011	N	1							1			
Upbound	Domestic	4	687	1468	195.0	35.0	2	9.0	1.9	0.1	173	2011	N	1							1			
Upbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2011	N	1							1			
Upbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2011	N	1							1			
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2011	N	1							1			
Upbound	Domestic	5	001619	3000	297.5	54.0	2	9.0	2.0	0.0	230	2011		2									2	
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2011	N	2			2							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2011	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	9	9.0	1.7	7.3	206	2011		1			1							
Upbound	Domestic	4	000764	1605	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2011	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2011	N	2			2							
Upbound	Domestic	4	727	1772	200.0	35.0	5	10.0	1.5	3.5	148	2011	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2011	N	1			1							
Upbound	Domestic	4	705	1559	200.0	35.0	8	9.0	1.5	6.5	150	2011	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	6	10.0	1.4	4.6	191	2011	N	1			1							
Upbound	Domestic	4	823	1536	200.0	35.0	7	9.0	1.6	5.4	175	2011	N	1			1							
Upbound	Domestic	4	879	1455	195.0	35.0	8	9.0	1.5	6.5	172	2011	N	1			1							
Upbound	Domestic	4	000764	1548	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	1							1			
Upbound	Domestic	4	883	1496	195.0	35.0	2	9.0	1.6	0.4	180	2011	N	1							1			
Upbound	Domestic	3	000177	999999	85.8	32.0	9	9.0	9.0	0.0	416	2011		3		3								
Upbound	Domestic	5	002099	4226	356.0	54.0	1	10.0	0.6	0.4	280	2011		1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2011	N	30			30							
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2011	N	4			4							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	19			19							
Upbound	Domestic	4	574	1526	195.0	35.0	9	9.0	1.6	7.4	140	2011	N	1			1							
Upbound	Domestic	5	774	1379	195.0	35.0	9	8.6	1.6	7.4	175	2011	N	1					1					
Upbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2011	N	1			1							
Upbound	Domestic	4	802	2100	195.0	35.0	9	12.0	2.0	7.0	217	2011	N	1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2011	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2011		1			1							
Upbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2011	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2011	N	1			1							
Upbound	Domestic	5	000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2011	N	1					1					
Upbound	Domestic	4	705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2011	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	7	9.0	1.7	5.3	235	2011	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	8	13.0	1.5	6.5	208	2011	N	1			1							
Upbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2011		25		25								
Upbound	Domestic	4	687	1724	195.0	35.0	2	10.0	1.5	0.5	206	2011		1							1			
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2011		21		21								
Upbound	Domestic	4	601	1616	195.0	35.0	2	9.0	1.4	0.6	132	2011	N	1							1			
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2011	N	3			3							
Upbound	Domestic	4	705	9100	200.0	35.0	8	10.0	1.4	6.6	208	2011		2			2							
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2011	N	11					11					
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2011	N	4			4							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	210	2011	N	1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	7	9.0	1.6	5.4	160	2011	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2011	N	1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2011		4		4								
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2011		5									5	
Upbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2011	N	1							1			
Upbound	Domestic	3	201	999999	108.8	28.0	7	7.5	6.9	0.1	260	2011		2		2								
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2011		3			3							
Upbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2011	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2011	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	6	10.0	1.4	4.6	149	2011	N	2			2							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2011	N	2			2							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2011		2			2							
Upbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2011	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	6	9.0	1.4	4.6	235	2011	N	2			2							
Upbound	Domestic	4	764	1854	200.0	35.0	9	10.0	1.6	7.4	224	2011	N	1			1							
Upbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2011	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2011	N	1			1							
Upbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2011		16		16								
Upbound	Domestic	4	000971	1668	200.1	35.1	2	8.7	1.4	0.6	182	2011	N	1							1			
Upbound	Domestic	4	729	1672	200.0	35.0	2	9.0	1.4	0.6	160	2011	N	1							1			
Upbound	Domestic	4	690	2415	195.0	35.0	2	10.0	2.0	0.0	146	2011	N	3							3			
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2011		1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2011		3			3							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2011	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2011	N	3			3							
Upbound	Domestic	4	764	1554	200.0	35.0	5	9.0	1.5	3.5	170	2011	N	1			1							
Upbound	Domestic	4	000764	1858	200.0	35.0	8	10.0	1.6	6.4	191	2011	N	1			1							
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2011	N	3			3							
Upbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2011		1			1							
Upbound	Domestic	4	764	1521	200.0	35.0	9	9.0	1.9	7.1	225	2011	N	1			1							
Upbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1			1							
Upbound	Domestic	4	000764	1546	200.0	35.0	7	9.0	1.6	5.4	205	2011	N	1			1							
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2011		4									4	
Upbound	Domestic	4	945	1424	195.0	35.0	2	9.0	1.1	0.9	190	2011	N	1							1			
Upbound	Domestic	4	000764	1956	200.0	35.0	9	9.0	2.0	7.0	196	2011		1			1							
Upbound	Domestic	4	000705	1250	200.0	35.0	9	10.0	1.5	7.5	135	2011	N	2			2							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2011	N	4			4							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	130	2011	N	2			2							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	225	2011	N	2			2							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2011	N	1			1							
Upbound	Domestic	4	687	1494	195.0	35.0	9	9.0	1.7	7.3	166	2011	N	1			1							
Upbound	Domestic	4	764	1497	200.0	35.0	8	9.0	1.9	6.1	205	2011	N	2			2							
Upbound	Domestic	4	706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2011	N	1			1							
Upbound	Domestic	4	743	1640	200.0	35.0	7	9.0	2.0	5.0	165	2011		1			1							
Upbound	Domestic	4	743	2316	200.0	35.0	7	10.0	1.3	5.7	186	2011		1			1							
Upbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2011	N	1			1							
Upbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2011		4		4								
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2011		26		26								
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2011		17		17								
Upbound	Domestic	4	909	1442	195.0	35.0	2	9.0	1.9	0.1	203	2011	N	1							1			
Upbound	Domestic	4	889	1464	195.1	35.2	2	9.0	1.8	0.2	155	2011	N	1							1			
Upbound	Domestic	5	1754	4234	297.5	54.0	2	11.0	1.5	0.5	200	2011	N	1									1	
Upbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2011	N	3			3							
Upbound	Domestic	4	705	1684	250.0	54.0	9	11.0	1.5	7.5	200	2011	N	1			1							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2011	N	9			9							
Upbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2011	N	3			3							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2011	N	1			1							
Upbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.6	7.4	190	2011	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.6	5.4	149	2011	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	1.6	6.4	220	2011	N	1			1							
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2011		7									7	
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2011		4									4	
Upbound	Domestic	4	1009	1520	195.0	35.0	2	9.0	1.6	0.4	192	2011	N	1							1			
Upbound	Domestic	4	710	1620	200.0	35.0	2	9.0	1.7	0.3	175	2011	N	1							1			
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2011	N	12			12							
Upbound	Domestic	4	764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2011	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2011		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2011	N	2			2							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2011	N	2			2							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2011	N	1			1							
Upbound	Domestic	4	960	1635	200.0	35.0	8	9.0	1.6	6.4	177	2011	N	1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2011	N	6			6							
Upbound	Domestic	4	764	1528	200.0	35.0	9	9.0	1.7	7.3	163	2011	N	2			2							
Upbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2011	N	1			1							
Upbound	Domestic	4	688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2011	N	1			1							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2011	N	2			2							
Upbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2011	N	1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2011	N	1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	7	9.0	1.3	5.7	145	2011	N	1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2011	N	1							1			
Upbound	Domestic	5	1892	3000	297.0	54.0	2	8.5	2.0	0.0	100	2011		2									2	
Upbound	Domestic	5	1634	2900	264.0	54.0	2	10.0	2.0	0.0	180	2011		3									3	
Upbound	Domestic	4	910	1489	195.0	35.0	2	9.0	1.7	0.3	203	2011	N	1							1			
Upbound	Domestic	3	413	999999	138.0	35.2	9	9.0	8.2	0.8	406	2011	N	3		3								
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2011		24			24							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	10.0	1.8	7.2	170	2011		2			2							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2011	N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	5			5							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2011	N	7			7							
Upbound	Domestic	4	000764	1609	200.0	35.0	12	9.0	3.0	9.0	9999	2011	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2011	N	1			1							
Upbound	Domestic	4	623	1732	200.0	35.0	8	9.6	1.7	6.3	208	2011	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2011	N	1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2011	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2011	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2011		6		6								
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2011		3		3								
Upbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2011		8		8								
Upbound	Domestic	5	1106	1800	175.0	54.0	2	10.0	2.0	0.0	170	2011		3									3	
Upbound	Domestic	4	745	1496	195.0	35.0	2	9.0	1.6	0.4	166	2011	N	1							1			
Upbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2011	N	1							1			
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2011	N	4			4							
Upbound	Domestic	4	000687	1515	195.0	35.0	7	9.0	1.4	5.6	150	2011	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2011		3			3							
Upbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	169	2011	N	2			2							
Upbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2011	N	1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2011	N	1			1							
Upbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2011		5			5							
Upbound	Domestic	4	000746	2151	200.0	35.0	9	12.0	1.8	7.2	170	2011		1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	1.8	8.2	190	2011		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	2			2							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2011	N	2					2					
Upbound	Domestic	4	000764	1648	200.0	35.0	10	12.0	2.0	8.0	208	2011	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	6	10.0	1.4	4.6	205	2011		1			1							
Upbound	Domestic	4	823	1728	200.0	35.0	8	9.0	1.3	6.7	155	2011	N	1			1							
Upbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2011		9		9								
Upbound	Domestic	5	001841	3200	290.0	54.0	2	10.0	2.0	0.0	220	2011		5									5	
Upbound	Domestic	5	001622	2500	270.0	53.0	2	9.0	2.0	0.0	220	2011		2									2	
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2011		5									5	
Upbound	Domestic	4	695	1500	195.0	35.0	2	9.0	1.6	0.4	200	2011	N	1							1			
Upbound	Domestic	4	909	1445	195.0	35.0	2	9.0	1.9	0.1	203	2011	N	1							1			
Upbound	Domestic	4	889	1504	195.1	35.2	2	9.0	1.6	0.4	155	2011	N	1							1			
Upbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.1	0.9	194	2011	N	5							5			
Upbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2011	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2011	N	3			3							
Upbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2011	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2011	N	2			2							
Upbound	Domestic	5	001633	4744	300.0	54.0	9	11.6	2.3	6.7	189	2011	N	1					1					
Upbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2011	N	1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	185	2011	N	1			1							
Upbound	Domestic	5	914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2011		6									6	
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2011		38		38								
Upbound	Domestic	3	166	999999	95.0	28.0	7	7.0	6.5	0.5	400	2011		1		1								
Upbound	Domestic	5	001619	3444	297.0	54.0	2	10.0	0.6	1.4	280	2011		1									1	
Upbound	Domestic	4	975	1489	195.0	35.0	2	9.0	1.7	0.3	145	2011	N	1							1			
Upbound	Domestic	4	000745	1705	195.0	35.0	2	10.0	1.6	0.4	139	2011	N	1							1			
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2011		7			7							
Upbound	Domestic	4	931	1655	200.0	35.0	8	9.0	1.5	6.5	190	2011	N	3			3							
Upbound	Domestic	4	680	2680	200.0	35.0	8	11.0	1.5	6.5	208	2011	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2011	N	5			5							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	8			8							
Upbound	Domestic	4	000764	1633	200.0	35.0	12	9.0	1.6	10.4	225	2011	N	2			2							
Upbound	Domestic	5	000835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2011	N	2					2					
Upbound	Domestic	4	745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2011	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2011	N	11			11							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2011		1					1					
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2011	N	1							1			
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2011	N	1									1	
Upbound	Domestic	3	170	999999	85.0	30.0	7	7.6	7.6	-0.6	320	2011		2		2								
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2011		24			24							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2011		7			7							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2011	N	1			1							
Upbound	Domestic	4	687	1586	195.0	35.0	8	9.0	1.4	6.6	148	2011	N	1			1							
Upbound	Domestic	4	000764	1633	200.0	35.0	13	9.0	1.6	11.4	225	2011	N	3			3							
Upbound	Domestic	4	000764	1556	200.0	35.0	7	9.0	1.6	5.4	225	2011	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	7	9.0	1.5	5.5	200	2011	N	1			1							
Upbound	Domestic	4	950	1666	200.0	35.0	2	9.0	1.4	0.6	180	2011	N	2							2			
Upbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2011	N	1							1			
Upbound	Domestic	4	745	1494	195.0	35.0	2	9.0	1.6	0.4	166	2011	N	9							9			
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2011	N	2			2							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2011		4			4							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2011	N	4			4							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	11			11							
Upbound	Domestic	4	802	2100	195.0	35.0	8	12.0	2.0	6.0	217	2011	N	1			1							
Upbound	Domestic	4	764	1695	200.0	35.0	5	9.0	1.2	3.8	155	2011	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2011	N	1			1							
Upbound	Domestic	4	823	1825	200.0	35.0	8	9.0	1.7	6.3	210	2011	N	1			1							
Upbound	Domestic	4	736	1654	200.0	35.0	8	9.0	1.5	6.5	185	2011	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2011	N	1			1							
Upbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2011		1			1							
Upbound	Domestic	5	855	1512	195.0	35.0	9	9.4	2.0	7.0	168	2011	N	1					1					
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2011		5		5								
Upbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2011	N	1							1			
Upbound	Domestic	4	688	1519	195.0	35.0	2	9.0	1.6	0.4	160	2011	N	2							2			
Upbound	Domestic	4	001065	1676	200.0	35.0	2	9.0	1.3	0.7	190	2011	N	1							1			
Upbound	Domestic	4	882	1520	195.0	35.0	2	9.0	1.6	0.4	180	2011	N	2							2			
Upbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	170	2011		2							2			
Upbound	Domestic	3	000177	999999	85.8	32.0	10	10.0	8.0	2.0	480	2011		2		2								
Upbound	Domestic	5	1619	3660	297.5	54.0	8	11.0	2.0	6.0	160	2011		1					1					
Upbound	Domestic	4	705	1644	200.0	35.0	9	9.0	1.5	7.5	140	2011	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2011	N	1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	6	9.0	1.6	4.4	225	2011	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2011	N	4			4							
Upbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2011	N	1			1							
Upbound	Domestic	5	855	1490	195.0	35.0	9	9.0	2.0	7.0	170	2011		1					1					
Upbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2011	N	3							3			
Upbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2011	N	3			3							
Upbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2011	N	1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2011	N	3			3							
Upbound	Domestic	5	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1					1					
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2011		4			4							
Upbound	Domestic	4	763	2290	195.0	35.0	8	12.0	1.7	6.3	235	2011	N	3			3							
Upbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2011	N	1			1							
Upbound	Domestic	4	578	1531	195.0	35.0	8	9.0	1.6	6.4	140	2011	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2011	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	212	2011	N	1			1							
Upbound	Domestic	5	2099	4809	356.0	54.0	1	11.0	0.6	0.4	280	2011		1									1	
Upbound	Domestic	5	2099	5067	356.0	54.0	1	11.0	0.6	0.4	280	2011		1									1	
Upbound	Domestic	5	001632	3526	300.0	54.0	2	10.0	2.3	-0.3	189	2011	N	4									4	
Upbound	Domestic	4	000907	1520	195.0	35.0	2	9.0	1.6	0.4	165	2011	N	1							1			
Upbound	Domestic	5	1632	4896	300.0	54.0	2	9.0	2.0	0.0	189	2011	N	1									1	
Upbound	Domestic	5	1754	4264	297.5	54.0	2	11.0	1.5	0.5	200	2011	N	1									1	
Upbound	Domestic	5	001619	1869	297.5	54.0	2	10.0	1.7	0.3	191	2011		2									2	
Upbound	Domestic	5	1632	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2011	N	1									1	
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.5	6.5	160	2011	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2011	N	21			21							
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2011	N	5			5							
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2011	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2011		1			1							
Upbound	Domestic	4	000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2011	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2011		1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	2			2							
Upbound	Domestic	5	001619	3891	297.5	54.0	9	10.5	1.5	7.5	175	2011		2					2					
Upbound	Domestic	5	001151	3275	175.0	54.0	2	9.0	1.5	0.5	164	2011		4									4	
Upbound	Domestic	5	001754	3665	297.5	54.0	2	11.0	2.0	0.0	180	2011		2									2	
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2011	N	5			5							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2011		8			8							
Upbound	Domestic	4	764	1648	200.0	35.0	11	10.0	1.5	9.5	186	2011	N	3			3							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2011	N	6			6							
Upbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2011	N	1			1							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2011	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	8	12.0	2.0	6.0	191	2011	N	1			1							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	1			1							
Upbound	Domestic	4	705	2077	200.0	35.0	8	11.0	1.0	7.0	120	2011	N	1			1							
Upbound	Domestic	4	000764	1561	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2011	N	2			2							
Upbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2011	N	3			3							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2011	N	3			3							
Upbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2011	N	1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	191	2011	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2011	N	1			1							
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	2			2							
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2011		6									6	
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2011		16		16								
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2011		20		20								
Upbound	Domestic	4	000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2011	N	1							1			
Upbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.6	0.4	180	2011	N	2							2			
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2011	N	6							6			
Upbound	Domestic	3	533	999999	140.0	42.0	6	8.6	6.6	-0.6	430	2011		3		3								
Upbound	Domestic	3	000169	999999	88.9	30.0	9	9.0	9.0	0.0	428	2011		3		3								
Upbound	Domestic	5	001918	3100	297.5	54.0	2	10.3	2.0	0.0	193	2011		1									1	
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2011	N	3			3							
Upbound	Domestic	5	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1					1					
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2011	N	5			5							
Upbound	Domestic	4	000823	2100	200.0	35.0	6	12.0	2.0	4.0	165	2011		1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	5	9.0	1.6	3.4	139	2011	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2011	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	215	2011	N	1			1							
Upbound	Domestic	4	764	1910	200.0	35.0	4	9.0	2.0	2.0	195	2011		1							1			
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2011		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2011	N	1			1							
Upbound	Domestic	4	764	1617	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	8	14.0	2.0	6.0	191	2011	N	1			1							
Upbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2011		1			1							
Upbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2011	N	1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2011		22		22								
Upbound	Domestic	3	76	999999	85.3	28.5	8	9.0	7.5	0.5	660	2011		1		1								
Upbound	Domestic	4	856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2011	N	1							1			
Upbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2011		36		36								
Upbound	Domestic	4	823	2282	200.0	35.0	8	12.6	1.7	6.3	190	2011	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	235	2011	N	1			1							
Upbound	Domestic	5	000825	1485	195.0	35.0	9	9.0	1.8	7.2	194	2011	N	1					1					
Upbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2011		1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	7	9.0	1.5	5.5	155	2011	N	1			1							
Upbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2011		3		3								
Upbound	Domestic	5	001760	4190	298.5	54.0	2	11.0	2.0	0.0	220	2011	N	1									1	
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2011		23			23							
Upbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2011	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2011	N	14			14							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2011	N	3			3							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2011	N	8			8							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2011	N	2			2							
Upbound	Domestic	4	000706	1614	200.0	35.0	7	9.0	1.4	5.6	145	2011	N	1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2011	N	8			8							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2011	N	8			8							
Upbound	Domestic	4	964	2098	200.0	35.0	9	11.0	1.5	7.5	218	2011		1			1							
Upbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	119	2011	N	1			1							
Upbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	170	2011	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2011	N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	5	9.0	1.6	3.4	143	2011	N	1			1							
Upbound	Domestic	4	1664	2010	200.0	35.0	9	10.6	1.3	7.7	220	2011		2			2							
Upbound	Domestic	4	764	2187	200.0	35.0	9	11.0	1.7	7.3	240	2011		1			1							
Upbound	Domestic	4	764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	1			1							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2011	N	1			1							
Upbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2011	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2011		6			6							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2011	N	2			2							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	4			4							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	216	2011	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	5	10.0	1.4	3.6	191	2011	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2011	N	1			1							
Upbound	Domestic	4	710	1557	195.0	35.0	9	9.2	1.6	7.4	139	2011	N	2			2							
Upbound	Domestic	4	000706	1557	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2011		1			1							
Upbound	Domestic	5	716	1400	195.0	35.0	8	9.5	1.8	6.2	170	2011		1					1					
Upbound	Domestic	4	764	1517	200.0	35.0	6	9.0	1.9	4.1	225	2011	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	7	9.0	1.8	5.2	230	2011	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2011	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2011		1									1	
Upbound	Domestic	4	705	1651	200.0	35.0	8	9.0	2.0	6.0	196	2011	N	5			5							
Upbound	Domestic	4	933	1527	195.0	35.0	10	12.0	1.5	8.5	199	2011	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	12	11.0	1.5	10.5	199	2011	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	120	2011		2					2					
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2011	N	2			2							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2011		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	10			10							
Upbound	Domestic	5	886	1489	195.0	35.0	8	9.0	1.3	6.7	164	2011	N	1					1					
Upbound	Domestic	5	788	1481	195.0	35.0	9	9.2	2.5	6.5	186	2011	N	1					1					
Upbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2011	N	1			1							
Upbound	Domestic	4	747	1500	195.0	35.0	2	9.0	1.6	0.4	136	2011	N	1							1			
Upbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2011	N	5									5	
Upbound	Domestic	4	771	1660	200.0	35.0	2	9.0	1.4	0.6	218	2011	N	1							1			
Upbound	Domestic	3	000095	999999	76.0	34.0	7	11.0	11.0	-4.0	550	2011		1		1								
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2011	N	11			11							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2011	N	4			4							
Upbound	Domestic	4	706	1575	200.0	35.0	4	9.0	1.6	2.4	205	2011	N	1			1							
Upbound	Domestic	4	710	1654	200.0	35.0	7	9.0	1.5	5.5	147	2011	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	10	10.0	1.5	8.5	139	2011	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2011	N	1			1							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2011		1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	5	9.0	2.0	3.0	192	2011	N	1			1							
Upbound	Domestic	5	2917	2400	295.0	52.5	2	9.0	2.0	0.0	320	2011		2									2	
Upbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2011	N	5			5							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2011	N	3			3							
Upbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2011	N	7			7							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2011	N	4			4							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2011	N	6			6							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2011		2			2							
Upbound	Domestic	4	907	1733	195.0	35.0	8	10.0	1.6	6.4	200	2011		1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.5	0.5	250	2011	N	1							1			
Upbound	Domestic	4	000764	1608	200.0	35.0	7	9.0	1.7	5.3	215	2011	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2011	N	1			1							
Upbound	Domestic	4	764	1673	200.0	35.0	2	9.0	1.4	0.6	165	2011	N	1							1			
Upbound	Domestic	4	687	1629	195.0	35.0	2	9.0	1.4	0.6	146	2011	N	1							1			
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2011	N	1							1			
Upbound	Domestic	5	001619	3612	300.0	54.0	2	9.3	2.0	0.0	190	2011	N	1									1	
Upbound	Domestic	5	1961	3500	297.5	54.0	2	8.5	2.0	0.0	100	2011		2									2	
Upbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2011	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2011	N	5			5							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2011	N	8			8							
Upbound	Domestic	5	001619	3360	297.0	54.0	10	10.0	0.6	9.4	280	2011		1					1					
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2011	N	6			6							
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	8	13.0	1.6	6.4	230	2011	N	1			1							
Upbound	Domestic	5	001455	3200	295.0	54.0	2	10.0	2.0	0.0	170	2011		5									5	
Upbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2011		13		13								
Upbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2011		2									2	
Upbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2011	N	5			5							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2011	N	7			7							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2011		3			3							
Upbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2011	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2011	N	5			5							
Upbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2011	N	1			1							
Upbound	Domestic	5	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1					1					
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	234	2011		1			1							
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2011	N	2					2					
Upbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2011	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	4			4							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2011		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2011	N	2			2							
Upbound	Domestic	4	799	1893	200.0	35.0	2	10.0	1.5	0.5	149	2011	N	1							1			
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2011		6			6							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2011	N	26			26							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2011	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2011	N	2			2							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	8			8							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2011	N	1			1							
Upbound	Domestic	5	000814	1447	195.0	35.0	8	9.0	1.9	6.1	170	2011	N	3					3					
Upbound	Domestic	5	788	1439	195.0	35.0	9	9.0	2.0	7.0	165	2011	N	2					2					
Upbound	Domestic	4	823	1800	200.0	35.0	12	10.0	1.5	10.5	180	2011	N	1			1							
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2011		9									9	
Upbound	Domestic	5	1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2011		1					1					
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	165	2011	N	1							1			
Upbound	Domestic	4	696	1644	200.0	35.0	2	9.0	1.6	0.4	180	2011	N	1							1			
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2011		4			4							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2011		8			8							
Upbound	Domestic	4	000764	1548	200.0	35.0	14	9.0	3.0	11.0	9999	2011	N	1			1							
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2011	N	8			8							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2011		4			4							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2011		4			4							
Upbound	Domestic	4	764	1557	200.0	35.0	9	9.0	1.5	7.5	135	2011	N	1			1							
Upbound	Domestic	5	000891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2011	N	7					7					
Upbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2011	N	2			2							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2011	N	3			3							
Upbound	Domestic	4	690	1505	195.0	35.0	9	9.0	1.6	7.4	146	2011	N	1			1							
Upbound	Domestic	4	000745	1863	195.0	35.0	7	10.0	2.0	5.0	9999	2011		1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2011		1			1							
Upbound	Domestic	5	001619	3517	297.0	54.0	11	10.0	0.6	10.4	280	2011		2					2					
Upbound	Domestic	4	000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2011	N	2			2							
Upbound	Domestic	4	706	1614	200.0	35.0	8	9.0	1.2	6.8	145	2011	N	1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	1			1							
Upbound	Domestic	4	834	1701	195.1	35.0	9	10.0	1.7	7.3	210	2011	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2011	N	1							1			
Upbound	Domestic	4	705	1609	200.0	35.0	2	9.0	1.7	0.3	175	2011	N	2							2			
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2011		10			10							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2011	N	5			5							
Upbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2011	N	1			1							
Upbound	Domestic	4	862	1725	195.0	35.0	8	10.0	2.0	6.0	192	2011	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	7	9.0	1.6	5.4	143	2011	N	1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2011	N	1			1							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2011	N	3			3							
Upbound	Domestic	4	770	1769	200.0	35.0	7	10.0	1.5	5.5	149	2011	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2011	N	1			1							
Upbound	Domestic	4	687	1491	195.0	35.0	6	9.0	1.8	4.2	240	2011	N	1			1							
Upbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2011	N	1			1							
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2011		22		22								
Upbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2011		5		5								
Upbound	Domestic	4	1020	1644	200.0	35.0	2	9.0	1.6	0.4	166	2011	N	1							1			
Upbound	Domestic	4	952	1450	195.0	35.0	2	9.0	2.0	0.0	190	2011	N	1							1			
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2011	N	3			3							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2011		2			2							
Upbound	Domestic	4	764	1531	200.0	35.0	7	9.0	1.6	5.4	204	2011	N	1			1							
Upbound	Domestic	4	705	1877	200.0	35.0	9	10.0	1.4	7.6	146	2011	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2011	2			2							
Upbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2011 N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2011 N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2011	1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2011	29		29								
Upbound	Domestic	4	800	1699	195.0	35.0	2	10.0	1.8	0.2	164	2011	1							1			
Upbound	Domestic	5	001619	3142	297.0	54.0	2	10.0	0.6	1.4	280	2011	1									1	
Upbound	Domestic	4	1039	1623	200.0	35.0	2	9.0	1.7	0.3	146	2011 N	1							1			
Upbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2011	3		3								
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2011	1									1	
Upbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	163	2011 N	1							1			
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2011	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2011 N	2			2							
Upbound	Domestic	4	994	1475	195.0	35.0	8	9.0	1.6	6.4	189	2011 N	1			1							
Upbound	Domestic	5	805	1433	195.0	35.0	8	9.0	1.1	6.9	166	2011 N	2					2					
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2011 N	11			11							
Upbound	Domestic	4	727	1768	200.0	35.0	5	10.0	1.5	3.5	148	2011 N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2011 N	1			1							
Upbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2011 N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	4	10.0	1.4	2.6	191	2011 N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2011 N	1			1							
Upbound	Domestic	5	788	1439	195.0	35.0	8	9.0	2.0	6.0	165	2011 N	2					2					
Upbound	Domestic	4	000764	1541	200.0	35.0	4	9.0	1.6	2.4	143	2011 N	1			1							
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2011	1									1	
Upbound	Domestic	4	971	1557	200.0	35.0	2	9.0	1.7	0.3	193	2011 N	1							1			
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2011	1			1							
Upbound	Domestic	5	855	1490	195.0	35.0	9	9.5	2.0	7.0	170	2011	3					3					
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2011	3			3							
Upbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2011 N	5			5							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2011 N	3			3							
Upbound	Domestic	4	663	1892	200.0	35.0	8	10.0	1.4	6.6	140	2011 N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	8	10.0	3.0	5.0	9999	2011 N	1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	7	9.0	1.6	5.4	139	2011 N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2011	3			3							
Upbound	Domestic	4	823	2739	200.0	35.0	9	14.0	1.7	7.3	250	2011 N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2011 N	1			1							
Upbound	Domestic	4	000764	1658	200.0	35.0	2	9.0	1.6	0.4	230	2011 N	1							1			
Upbound	Domestic	5	1619	3891	297.5	54.0	2	10.5	1.5	0.5	175	2011	2									2	
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2011 N	6			6							
Upbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2011 N	4			4							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2011 N	6			6							
Upbound	Domestic	5	001619	3142	297.0	54.0	11	10.0	0.6	10.4	280	2011	1					1					
Upbound	Domestic	4	000764	2353	200.0	35.0	8	12.9	1.6	6.4	205	2011 N	1			1							
Upbound	Domestic	4	1020	1656	200.0	35.0	8	9.0	1.5	6.5	193	2011 N	1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2011	1			1							
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2011	6									6	
Upbound	Domestic	4	1006	1902	195.0	35.0	2	11.0	1.9	0.1	199	2011	1							1			
Upbound	Domestic	5	839	1800	137.0	54.0	2	9.0	1.6	0.4	90	2011	3									3	
Upbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2011 N	2							2			
Upbound	Domestic	3	453	999999	150.0	45.0	9	9.3	8.6	0.4	380	2011 N	2		2								
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2011 N	5			5							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2011 N	14							14			
Upbound	Domestic	4	687	1491	195.0	35.0	9	9.0	1.8	7.2	240	2011 N	1			1							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2011 N	2					2					
Upbound	Domestic	4	764	1559	200.0	35.0	7	9.0	1.5	5.5	170	2011 N	1			1							
Upbound	Domestic	4	764	1558	200.0	35.0	8	9.0	1.5	6.5	160	2011 N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2011	2			2							
Upbound	Domestic	4	000745	1507	195.0	35.0	6	9.0	1.6	4.4	139	2011 N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2011	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	206	2011	1			1							
Upbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2011 N	1			1							
Upbound	Domestic	4	727	1500	200.0	35.0	8	9.0	1.6	6.4	196	2011 N	2			2							
Upbound	Domestic	5	001754	4531	297.5	54.0	7	10.0	1.9	5.1	220	2011	4					4					
Upbound	Domestic	5	001754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2011	1					1					
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2011	5									5	
Upbound	Domestic	3	000334	491	140.0	38.0	9	9.6	8.6	0.4	430	2011	1		1								
Upbound	Domestic	5	1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2011	4									4	
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2011	2		2								
Upbound	Domestic	3	103	999999	72.0	24.0	8	8.5	6.0	2.0	300	2011	1		1								
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2011 N	3			3							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2011 N	4			4							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2011	2			2							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2011	2			2							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2011 N	3			3							
Upbound	Domestic	4	000764	1650	200.0	35.0	10	12.0	1.5	8.5	208	2011 N	1			1							
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2011 N	6			6							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2011 N	2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2011 N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2011 N	6			6							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2011 N	3			3							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2011	2			2							
Upbound	Domestic	4	000764	1869	200.0	35.0	6	10.0	1.7	4.3	191	2011 N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	3	13.0	3.0	0.0	170	2011	1							1			
Upbound	Domestic	5	001633	3860	300.0	54.0	2	10.0	2.0	0.0	189	2011 N	1									1	
Upbound	Domestic	3	000219	322	120.0	35.0	8	10.0	8.0	0.0	290	2011	1		1								
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2011	4			4							
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2011 N	2			2							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2011 N	4			4							
Upbound	Domestic	4	000705	1650	200.0	35.0	8	10.0	1.5	6.5	208	2011 N	1			1							
Upbound	Domestic	4	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011 N	1			1							
Upbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	186	2011	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	7	10.0	1.5	5.5	206	2011	2			2							
Upbound	Domestic	4	933	1674	200.0	35.0	6	9.0	2.0	4.0	192	2011 N	1			1							
Upbound	Domestic	5	2147	3400	297.5	54.0	2	10.0	2.0	0.0	180	2011	5									5	
Upbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2011	4		4								
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2011	1									1	
Upbound	Domestic	4	1008	1636	200.0	35.0	2	9.0	1.6	0.4	170	2011 N	1							1			
Upbound	Domestic	4	705	1674	200.0	35.0	2	9.0	1.5	0.5	223	2011 N	1							1			
Upbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2011 N	1									1	
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2011	1									1	
Upbound	Domestic	4	203	900	175.0	26.0	9	9.0	1.0	8.0	112	2011 N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2011	16			16							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2011 N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	7	9.0	1.8	5.2	225	2011 N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	6	9.0	1.8	4.2	205	2011 N	1			1							
Upbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2011 N	2			2							
Upbound	Domestic	4	000764	1536	200.0	35.0	6	9.0	1.5	4.5	160	2011 N	1			1							
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2011	11									11	
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2011	1									1	
Upbound	Domestic	4	975	1489	195.0	35.0	2	9.0	1.7	0.3	203	2011 N	2							2			
Upbound	Domestic	4	000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2011 N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2011 N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2011	1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2011 N	2			2							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2011 N	5			5							
Upbound	Domestic	4	000764	1592	200.0	35.0	13	9.0	3.0	10.0	9999	2011 N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	1			1							
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2011		5									5	
Upbound	Domestic	5	002099	4467	356.0	54.0	1	10.0	0.6	0.4	280	2011		1									1	
Upbound	Domestic	5	002800	2350	282.0	54.0	2	12.0	2.0	0.0	300	2011		1									1	
Upbound	Domestic	4	711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2011		2			2							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2011	N	11			11							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2011	N	1			1							
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	149	2011	N	3			3							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2011	N	6			6							
Upbound	Domestic	4	000764	1608	200.0	35.0	9	9.0	1.7	7.3	215	2011	N	1			1							
Upbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2011		1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2011		3			3							
Upbound	Domestic	4	000764	1615	200.0	35.0	9	11.0	1.8	7.2	170	2011		1			1							
Upbound	Domestic	4	2500	4500	192.0	37.0	5	18.0	3.0	2.0	1000	2011		1							1			
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	7	11.0	4.0	3.0	170	2011	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2011	N	1			1							
Upbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2011	N	1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2011	N	1							1			
Upbound	Domestic	4	888	1520	195.0	35.0	2	9.0	1.6	0.4	180	2011	N	1							1			
Upbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2011	N	2			2							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2011		2			2							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	3			3							
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2011	N	27			27							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2011	N	2			2							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	3			3							
Upbound	Domestic	4	960	1672	200.0	35.0	8	9.0	1.3	6.7	208	2011	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.5	5.5	148	2011	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	1			1							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2011	N	4			4							
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2011	N	2			2							
Upbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2011	N	2			2							
Upbound	Domestic	4	000329	1500	140.0	40.0	2	3.0	2.0	0.0	70	2011		1							1			
Upbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2011		1			1							
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2011	N	2			2							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2011	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2011	N	3			3							
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2011	N	1			1							
Upbound	Domestic	4	764	1531	200.0	35.0	9	9.0	1.6	7.4	204	2011	N	1			1							
Upbound	Domestic	4	848	1523	195.0	35.0	8	9.0	1.5	6.5	145	2011	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	209	2011	N	1			1							
Upbound	Domestic	4	000764	2006	200.0	35.0	11	10.0	2.0	9.0	9999	2011	N	1			1							
Upbound	Domestic	5	886	1586	200.0	35.0	8	9.0	1.9	6.1	125	2011	N	1					1					
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	160	2011	N	1			1							
Upbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2011	N	1			1							
Upbound	Domestic	4	966	1630	200.0	35.0	2	9.0	1.6	0.4	193	2011	N	1							1			
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2011		2			2							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2011		10			10							
Upbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	119	2011	N	1			1							
Upbound	Domestic	4	745	1504	195.0	35.0	9	9.0	1.6	7.4	166	2011	N	1			1							
Upbound	Domestic	5	795	1475	195.0	35.0	7	9.0	1.8	5.2	178	2011	N	1					1					
Upbound	Domestic	4	000764	1625	200.0	35.0	14	9.0	3.0	11.0	9999	2011	N	1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2011	N	3					3					
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	1			1							
Upbound	Domestic	5	001619	3142	297.0	54.0	12	10.0	0.6	11.4	280	2011		1					1					
Upbound	Domestic	4	823	2410	200.0	35.0	6	14.0	1.5	4.5	190	2011	N	1			1							
Upbound	Domestic	4	000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2011	N	1			1							
Upbound	Domestic	4	783	1902	195.0	35.0	2	11.0	1.9	0.1	199	2011		2							2			
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2011		2									2	
Upbound	Domestic	4	705	1662	200.0	35.0	2	9.0	1.6	0.4	208	2011	N	1							1			
Upbound	Domestic	5	2223	3400	297.5	54.0	2	10.0	2.0	0.0	180	2011		3									3	
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2011		2			2							
Upbound	Domestic	4	687	1626	195.0	35.0	7	9.0	1.6	5.4	146	2011	N	1			1							
Upbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2011	N	1			1							
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.1	6.9	142	2011	N	1					1					
Upbound	Domestic	4	856	2312	200.0	35.0	8	12.0	1.5	6.5	217	2011	N	1			1							
Upbound	Domestic	4	694	1743	195.0	35.0	8	10.0	1.6	6.4	176	2011	N	1			1							
Upbound	Domestic	4	705	1633	200.0	35.0	9	9.0	1.6	7.4	160	2011	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	9	9.0	1.4	7.6	165	2011		1			1							
Upbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2011		2			2							
Upbound	Domestic	4	764	1615	200.0	35.0	7	9.0	1.6	5.4	225	2011	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2011	N	2			2							
Upbound	Domestic	4	000764	1551	200.0	35.0	7	9.0	1.6	5.4	225	2011	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2011	N	1							1			
Upbound	Domestic	5	1876	3300	297.5	54.0	2	10.0	2.0	0.0	180	2011		4									4	
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2011	N	7							7			
Upbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	2			2							
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2011	N	12			12							
Upbound	Domestic	4	000764	1652	200.0	35.0	7	9.0	2.0	5.0	215	2011	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	5	9.0	1.4	3.6	160	2011	N	1			1							
Upbound	Domestic	4	543	1487	195.0	35.0	9	9.0	1.6	7.4	183	2011	N	1			1							
Upbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	200	2011	N	1			1							
Upbound	Domestic	5	835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2011	N	2					2					
Upbound	Domestic	4	764	1528	200.0	35.0	6	9.0	1.7	4.3	163	2011	N	1			1							
Upbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2011	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	3	9.0	1.6	1.4	154	2011	N	1							1			
Upbound	Domestic	4	000764	1657	200.0	35.0	10	9.0	3.0	7.0	9999	2011	N	1			1							
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2011		10		10								
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2011		3									3	
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2011	N	2			2							
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2011	N	2			2							
Upbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2011	N	2			2							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2011		1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2011	N	6			6							
Upbound	Domestic	4	745	1496	195.0	35.0	9	9.0	1.6	7.4	166	2011	N	1			1							
Upbound	Domestic	4	705	1617	200.0	35.0	9	9.0	1.6	7.4	205	2011	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2011		7			7							
Upbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.8	7.2	225	2011	N	1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	4	10.0	1.7	2.3	210	2011	N	1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2011		1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	4	9.0	2.0	2.0	130	2011	N	1							1			
Upbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2011	N	1							1			
Upbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	148	2011	N	1							1			
Upbound	Domestic	5	001637	3390	297.5	54.0	2	11.0	2.0	0.0	160	2011		2									2	
Upbound	Domestic	4	000764	2600	200.0	35.0	13	9.0	1.6	11.4	200	2011		1			1							
Upbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2011	N	9			9							
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	2			2							
Upbound	Domestic	4	000687	1535	200.0	35.0	5	9.0	1.5	3.5	217	2011	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	194	2011	N	1			1							
Upbound	Domestic	5	834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2011		6									6	
Upbound	Domestic	5	1816	5450	356.0	54.0	2	13.0	2.0	0.0	220	2011		7									7	
Upbound	Domestic	4	909	1485	195.0	35.0	2	9.0	1.7	0.3	203	2011	N	1							1			
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2011	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2011	N	5			5							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2011	N	5			5							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2011	N	2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2011	N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	7	9.0	1.7	5.3	225	2011	N	1			1							
Upbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2011	N	1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	7	14.0	1.7	5.3	231	2011	N	1			1							
Upbound	Domestic	4	705	1877	200.0	35.0	9	10.0	1.5	7.5	146	2011	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2011	N	2			2							
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2011		26		26								
Upbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2011	N	3									3	
Upbound	Domestic	5	2431	2500	280.0	50.0	2	9.0	2.5	-0.5	220	2011		1									1	
Upbound	Domestic	4	764	1990	200.0	35.0	2	9.0	1.5	0.5	170	2011	N	1							1			
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2011	N	16			16							
Upbound	Domestic	4	000823	1800	200.0	35.0	12	9.0	1.5	10.5	180	2011	N	1			1							
Upbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2011	N	1			1							
Upbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2011	N	1			1							
Upbound	Domestic	4	697	1729	195.0	35.0	8	10.0	1.5	6.5	176	2011	N	2			2							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2011	N	3			3							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	2			2							
Upbound	Domestic	4	764	1636	200.0	35.0	6	9.0	1.5	4.5	165	2011	N	1			1							
Upbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2011	N	3			3							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2011		9			9							
Upbound	Domestic	4	764	1535	200.0	35.0	4	9.0	1.5	2.5	217	2011	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	4	9.0	1.5	2.5	165	2011	N	1			1							
Upbound	Domestic	4	882	1520	195.0	35.0	8	9.0	1.6	6.4	180	2011	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2011		1			1							
Upbound	Domestic	4	000687	1474	195.0	35.0	9	9.0	1.8	7.2	145	2011	N	1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2011	N	1			1							
Upbound	Domestic	4	910	1506	195.1	35.1	2	9.0	1.7	0.3	185	2011	N	1							1			
Upbound	Domestic	4	823	1643	200.0	35.0	11	11.0	1.5	9.5	9999	2011	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	11	11.0	1.5	9.5	199	2011	N	2			2							
Upbound	Domestic	4	705	1885	200.0	35.0	7	9.0	1.4	5.6	208	2011		1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2011	N	2			2							
Upbound	Domestic	4	687	1574	195.0	35.0	7	9.0	1.3	5.7	145	2011	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2011	N	9			9							
Upbound	Domestic	4	1020	1633	200.0	35.0	9	9.0	1.6	7.4	149	2011	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	13	9.0	1.8	11.2	230	2011	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2011		1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	160	2011	N	1			1							
Upbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2011	N	1			1							
Upbound	Domestic	5	1861	5250	356.0	54.0	2	13.0	2.0	0.0	220	2011		7									7	
Upbound	Domestic	5	1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2011		1									1	
Upbound	Domestic	4	687	1633	195.0	35.0	2	9.0	1.4	0.6	133	2011	N	1							1			
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2011	N	1				1						
Downbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2011		4				4						
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2011		2				2						
Downbound	Domestic	4	690	1474	195.0	35.0	8	9.0	1.8	6.2	176	2011	N	1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	9	9.0	1.8	7.2	225	2011	N	3				3						
Downbound	Domestic	5	001754	4444	297.5	54.0	7	11.0	2.0	5.0	200	2011	N	3						3				
Downbound	Domestic	4	889	1424	195.1	35.2	8	9.0	1.1	6.9	194	2011	N	5				5						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2011	N	2				2						
Downbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	1								1		
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2011	N	2				2						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	205	2011	N	1				1						
Downbound	Domestic	5	1634	2900	264.0	54.0	10	10.0	2.0	8.0	180	2011		1						1				
Downbound	Domestic	3	135	999999	81.0	30.0	7	10.6	8.6	-1.6	430	2011		1		1								
Downbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2011		2		2								
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2011	N	2								2		
Downbound	Domestic	4	764	1648	200.0	35.0	2	13.0	1.5	0.5	208	2011	N	1								1		
Downbound	Domestic	3	000262	999999	109.8	34.0	8	8.0	6.0	2.0	480	2011	N	1		1								
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.6	6.4	215	2011	N	1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2011	N	16				16						
Downbound	Domestic	4	705	1727	200.0	35.0	9	9.0	1.1	7.9	146	2011	N	1				1						
Downbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2011	N	2				2						
Downbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	210	2011	N	1				1						
Downbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2011	N	1				1						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2011	N	2				2						
Downbound	Domestic	5	001619	3000	297.5	54.0	9	9.0	2.0	7.0	230	2011		2						2				
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	1				1						
Downbound	Domestic	4	000823	2792	200.0	35.0	2	12.0	1.7	0.3	250	2011	N	1								1		
Downbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2011	N	3								3		
Downbound	Domestic	4	931	1655	200.0	35.0	2	9.0	1.5	0.5	190	2011	N	1								1		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2011	N	3								3		
Downbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2011	N	1								1		
Downbound	Domestic	4	952	1450	195.0	35.0	2	9.0	1.6	0.4	190	2011	N	1								1		
Downbound	Domestic	3	108	999999	58.0	22.0	7	7.0	6.5	0.5	340	2011		1		1								
Downbound	Domestic	4	000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2011	N	1				1						
Downbound	Domestic	4	182	500	110.0	32.0	2	6.0	1.5	0.5	80	2011	N	1								1		
Downbound	Domestic	5	914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2011		3						3				
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2011	N	3				3						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	15				15						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2011	N	19				19						
Downbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2011	N	3										3
Downbound	Domestic	5	001632	3000	300.0	54.0	2	12.0	2.0	0.0	189	2011	N	4										4
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2011	N	3				3						
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2011		2						2				
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2011	N	1				1						
Downbound	Domestic	4	823	2319	200.0	35.0	9	12.0	1.3	7.7	227	2011		1				1						
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2011	N	3				3						
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2011		1				1						
Downbound	Domestic	4	000764	2060	200.0	35.0	8	11.0	1.8	6.2	195	2011		1				1						
Downbound	Domestic	5	001632	4662	300.0	54.0	9	11.9	2.2	6.8	189	2011	N	1						1				
Downbound	Domestic	4	710	1557	195.0	35.0	2	9.2	1.6	0.4	139	2011	N	1								1		
Downbound	Domestic	5	886	1586	200.0	35.0	2	9.0	1.9	0.1	125	2011	N	1										1
Downbound	Domestic	4	000764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2011		1								1		
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2011	N	1								1		
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2011	N	1										1
Downbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2011	N	5				5						
Downbound	Domestic	5	001619	3142	297.0	54.0	5	10.0	0.6	4.4	280	2011		1						1				
Downbound	Domestic	5	1697	1800	296.7	54.0	9	9.0	1.6	7.4	90	2011		3						3				
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2011	N	7				7						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2011	N	4				4						
Downbound	Domestic	4	000764	2501	200.0	35.0	12	10.0	1.5	10.5	186	2011	N	1				1						
Downbound	Domestic	4	000764	1865	200.0	35.0	9	10.0	1.5	7.5	139	2011	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2011	N	2				2						
Downbound	Domestic	4	848	1511	195.0	35.0	8	9.0	1.6	6.4	149	2011	N	1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.5	6.5	217	2011	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2011	N	2				2						
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2011	N	2				2						
Downbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2011	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	2	12.0	2.0	0.0	208	2011	N	1								1		
Downbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2011		1		1								
Downbound	Domestic	3	202	999999	80.9	29.1	7	11.2	9.7	-2.7	450	2011		1		1								
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2011	N	10				10						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2011		4				4						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2011		2				2						
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2011	N	4				4						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2011		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	163	2011	N	1				1						
Downbound	Domestic	4	687	1501	195.0	35.0	12	12.0	1.5	10.5	186	2011	N	4				4						
Downbound	Domestic	4	690	2415	195.0	35.0	8	10.0	2.0	6.0	146	2011	N	2				2						
Downbound	Domestic	4	000764	1608	200.0	35.0	9	9.0	1.7	7.3	130	2011	N	2				2						
Downbound	Domestic	4	000764	1561	200.0	35.0	12	9.0	3.0	9.0	9999	2011	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2011	N	1				1						
Downbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2011	N	1				1						
Downbound	Domestic	4	713	1550	200.0	35.0	2	9.0	1.2	0.8	190	2011	N	1								1		
Downbound	Domestic	5	000891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2011	N	6										6
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2011	N	3								3		
Downbound	Domestic	3	237	999999	121.0	33.0	7	10.3	8.8	-1.8	400	2011		1		1								
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2011	N	2										2
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2011		7						7				
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2011		2				2						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2011		2				2						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2011		3				3						
Downbound	Domestic	4	705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2011	N	4				4						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2011	N	4				4						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2011	N	7				7						
Downbound	Domestic	4	888	1500	195.0	35.0	8	9.0	1.7	6.3	149	2011	N	2				2						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	1.5	7.5	190	2011	N	2				2						
Downbound	Domestic	4	000329	1500	140.0	40.0	3	3.0	2.0	1.0	70	2011		2								2		
Downbound	Domestic	4	000764	1546	200.0	35.0	9	9.0	1.6	7.4	205	2011	N	1				1						
Downbound	Domestic	5	1754	4264	297.5	54.0	9	11.0	1.5	7.5	200	2011	N	1						1				
Downbound	Domestic	4	000764	1556	200.0	35.0	9	9.0	1.6	7.4	225	2011	N	1				1						
Downbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2011	N	1				1						
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2011	N	1				1						
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2011		3		3								
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2011		17								17		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2011	N	4								4		
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2011		22								22		
Downbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.8	0.2	225	2011	N	1								1		
Downbound	Domestic	3	414	999999	110.0	32.0	8	9.0	7.5	0.5	450	2011	N	1		1								
Downbound	Domestic	4	000823	1750	200.0	35.0	2	10.0	1.7	0.3	215	2011	N	1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2011	N	16				16						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2011	N	16				16						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2011	N	7				7						
Downbound	Domestic	5	001151	3275	175.0	54.0	9	9.0	1.5	7.5	164	2011		3						3				
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2011	N	2								2		
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2011	N	9				9						
Downbound	Domestic	4	729	1672	200.0	35.0	8	9.0	1.4	6.6	160	2011	N	1				1						
Downbound	Domestic	4	705	1662	200.0	35.0	8	9.0	1.6	6.4	208	2011	N	2				2						
Downbound	Domestic	4	000705	1618	200.0	35.0	9	9.0	1.6	7.4	210	2011	N	1				1						
Downbound	Domestic	4	764	2292	200.0	35.0	2	12.0	1.5	0.5	200	2011	N	1								1		
Downbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2011	N	1								1		
Downbound	Domestic	5	2917	2400	295.0	52.5	9	9.0	2.0	7.0	320	2011		2						2				
Downbound	Domestic	4	1006	1902	195.0	35.0	8	11.0	1.9	6.1	199	2011		3				3						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2011		3				3						
Downbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2011	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2011	N	2				2						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2011	N	3				3						
Downbound	Domestic	4	747	1500	195.0	35.0	9	9.0	1.6	7.4	136	2011	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2011	N	6				6						
Downbound	Domestic	5	2223	3400	297.5	54.0	10	10.0	2.0	8.0	180	2011		3						3				
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2011	N	1				1						
Downbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2011	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2011		1				1						
Downbound	Domestic	4	975	1489	195.0	35.0	9	9.0	1.7	7.3	203	2011	N	1				1						
Downbound	Domestic	4	705	1570	200.0	35.0	8	9.0	1.5	6.5	150	2011	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2011		2				2						
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2011	N	18								18		
Downbound	Domestic	3	101	999999	95.0	32.0	8	10.5	8.0	0.0	430	2011	N	1		1								
Downbound	Domestic	4	764	1635	200.0	35.0	2	9.0	1.5	0.5	165	2011	N	1								1		
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2011	N	3								3		
Downbound	Domestic	5	001619	3891	297.5	54.0	2	10.5	1.5	0.5	175	2011		2										2
Downbound	Domestic	4	1056	2826	240.0	50.0	2	9.0	2.0	0.0	110	2011		1								1		
Downbound	Domestic	4	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2011	N	1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2011		5				5						
Downbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2011	N	1				1						
Downbound	Domestic	4	942	1902	195.0	35.0	8	11.0	1.8	6.2	180	2011		1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2011	N	2				2						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2011	N	2				2						
Downbound	Domestic	5	1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2011		1						1				
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2011	N	1				1						
Downbound	Domestic	4	764	1610	200.0	35.0	8	9.0	1.6	6.4	165	2011	N	1				1						
Downbound	Domestic	4	687	1468	195.0	35.0	8	9.0	1.9	6.1	173	2011	N	1				1						
Downbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2011	N	2				2						
Downbound	Domestic	4	1063	1627	200.0	35.0	8	9.0	1.6	6.4	170	2011	N	2				2						
Downbound	Domestic	4	889	1464	195.1	35.2	8	9.0	1.8	6.2	155	2011	N	1				1						
Downbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2011	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2011		2				2						
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2011	N	2								2		
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2011	N	3								3		
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2011	N	2										2
Downbound	Domestic	4	763	2290	195.0	35.0	2	12.0	1.7	0.3	235	2011	N	1								1		
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2011	N	3								3		
Downbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2011	N	1								1		
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2011		5				5						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2011	N	5				5						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2011	N	1				1						
Downbound	Domestic	5	1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2011		4						4				
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2011	N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2011	N	2				2						
Downbound	Domestic	4	1020	1644	200.0	35.0	8	9.0	1.6	6.4	166	2011	N	1				1						
Downbound	Domestic	4	001065	1676	200.0	35.0	8	9.0	1.3	6.7	190	2011	N	1				1						
Downbound	Domestic	5	001633	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2011	N	1										1
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	212	2011	N	1								1		
Downbound	Domestic	4	921	1700	195.0	35.0	9	10.0	1.9	7.1	193	2011		1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2011		4				4						
Downbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2011	N	2				2						
Downbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2011	N	3				3						
Downbound	Domestic	4	735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2011	N	2				2						
Downbound	Domestic	5	1619	4048	297.5	54.0	9	11.5	2.0	7.0	190	2011		10						10				
Downbound	Domestic	5	001754	3694	297.0	54.0	2	10.0	2.0	0.0	185	2011	N	1										1
Downbound	Domestic	4	687	1605	195.0	35.0	9	9.5	0.5	8.5	146	2011	N	1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.5	6.5	140	2011		1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	1				1						
Downbound	Domestic	4	799	1893	200.0	35.0	8	10.0	1.5	6.5	149	2011	N	1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2011	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.6	7.4	180	2011	N	2				2						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	7				7						
Downbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2011	N	1				1						
Downbound	Domestic	5	001918	3100	297.5	54.0	9	10.3	2.0	7.0	193	2011		1						1				
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2011	N	2								2		
Downbound	Domestic	3	000212	999999	94.5	35.0	10	10.0	10.0	0.0	460	2011		2		2								
Downbound	Domestic	3	000288	999999	96.0	34.0	10	10.0	10.0	0.0	436	2011		1		1								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2011	N	1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2011	N	6				6						
Downbound	Domestic	4	543	1487	195.0	35.0	9	9.0	1.6	7.4	119	2011	N	1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	8	9.0	1.4	6.6	146	2011	N	1				1						
Downbound	Domestic	4	764	1608	200.0	35.0	9	9.0	1.5	7.5	225	2011	N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2011	N	5				5						
Downbound	Domestic	4	000705	2070	200.0	35.0	9	12.0	2.0	7.0	21	2011	N	1				1						
Downbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2011		1				1						
Downbound	Domestic	4	705	1559	200.0	35.0	9	9.0	1.5	7.5	150	2011	N	1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2011		1				1						
Downbound	Domestic	4	764	2187	200.0	35.0	8	11.0	1.7	6.3	240	2011	N	1				1						
Downbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2011		6		6								
Downbound	Domestic	4	000764	2600	200.0	35.0	2	9.0	1.6	0.4	200	2011		1								1		
Downbound	Domestic	3	402	999999	140.8	43.3	8	11.0	8.0	0.0	453	2011	N	3		3								
Downbound	Domestic	4	687	1586	195.0	35.0	2	9.0	1.4	0.6	148	2011	N	1								1		
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2011	N	4								4		
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2011	N	4								4		
Downbound	Domestic	4	000764	1910	200.0	35.0	3	13.0	3.0	0.0	206	2011		1								1		
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2011	N	9				9						
Downbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2011	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2011	N	1				1						
Downbound	Domestic	4	1065	1659	200.0	35.0	8	9.0	1.5	6.5	185	2011	N	1				1						
Downbound	Domestic	4	888	1520	195.0	35.0	8	9.0	1.6	6.4	180	2011	N	3				3						
Downbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2011	N	5				5						
Downbound	Domestic	5	001632	3526	300.0	54.0	9	10.0	2.3	6.7	189	2011	N	3						3				
Downbound	Domestic	4	975	1489	195.0	35.0	8	9.0	1.7	6.3	203	2011	N	1				1						
Downbound	Domestic	4	764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2011	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2011	N	2				2						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2011	N	1				1						
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2011		4		4								
Downbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2011	N	1								1		
Downbound	Domestic	5	812	1432	195.0	35.0	2	9.0	1.1	0.9	142	2011	N	2										2
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2011	N	9								9		
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2011	N	1								1		
Downbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2011	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2011	N	1								1		
Downbound	Domestic	4	823	2279	200.0	35.0	2	12.0	1.7	0.3	223	2011	N	1								1		
Downbound	Domestic	5	1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2011		6						6				
Downbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2011	N	3				3						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2011	N	3				3						
Downbound	Domestic	4	000764	1857	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	1								1		
Downbound	Domestic	4	000764	1605	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2011	N	1				1						
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	2.0	8.0	220	2011		2						2				
Downbound	Domestic	5	1106	1800	175.0	54.0	9	10.0	2.0	7.0	170	2011		3						3				
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2011	N	1				1						
Downbound	Domestic	5	002099	4467	356.0	54.0	8	10.0	0.6	7.4	280	2011		1						1				
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2011	N	1				1						
Downbound	Domestic	3	203	999999	100.0	30.0	9	8.4	8.4	0.6	420	2011		1		1								
Downbound	Domestic	3	000177	999999	85.8	32.0	9	9.0	9.0	0.0	416	2011		7		7								
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2011	N	1								1		
Downbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2011		1		1								
Downbound	Domestic	4	000745	1863	195.0	35.0	2	10.0	2.0	0.0	9999	2011	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2011		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2011	N	14				14						
Downbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2011	N	1				1						
Downbound	Domestic	4	000971	1668	200.1	35.1	9	8.7	1.4	7.6	182	2011	N	1				1						
Downbound	Domestic	4	687	1534	195.0	35.0	8	9.0	1.5	6.5	146	2011	N	1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	15				15						
Downbound	Domestic	4	687	1626	195.0	35.0	8	9.0	1.6	6.4	146	2011	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2011	N	1				1						
Downbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2011	N	1				1						
Downbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	1				1						
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2011	N	1				1						
Downbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2011		30		30								
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2011		20		20								
Downbound	Domestic	5	855	1490	195.0	35.0	2	9.5	2.0	0.0	170	2011		3										3
Downbound	Domestic	4	764	1645	200.0	35.0	2	9.0	1.9	0.1	220	2011	N	1								1		
Downbound	Domestic	4	717	1662	200.0	35.0	2	9.0	1.4	0.6	191	2011	N	1								1		
Downbound	Domestic	4	000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2011	N	1								1		
Downbound	Domestic	4	1020	1854	200.0	35.0	8	10.0	1.6	6.4	167	2011		1				1						
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2011	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2011	N	1				1						
Downbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2011		1										1
Downbound	Domestic	5	839	1800	137.0	54.0	9	9.0	1.6	7.4	90	2011		3						3				
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2011	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2011	N	1				1						
Downbound	Domestic	4	000764	1657	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1				1						
Downbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2011		2		2								
Downbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2011		3		3								
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2011	N	1								1		
Downbound	Domestic	4	000745	2292	195.0	35.0	2	15.0	3.0	-1.0	9999	2011	N	1								1		
Downbound	Domestic	3	201	999999	108.8	28.0	7	7.5	6.9	0.1	260	2011		1		1								
Downbound	Domestic	4	663	1892	200.0	35.0	2	10.0	1.4	0.6	140	2011	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2011		7				7						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2011	N	1				1						
Downbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2011	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2011	N	2				2						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2011	N	4				4						
Downbound	Domestic	4	705	2002	200.0	35.0	7	9.0	1.5	5.5	190	2011	N	1				1						
Downbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2011	N	1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2011	N	1				1						
Downbound	Domestic	4	933	1662	200.0	35.0	9	9.0	1.4	7.6	194	2011	N	1				1						
Downbound	Domestic	4	950	1666	200.0	35.0	8	9.0	1.4	6.6	180	2011	N	1				1						
Downbound	Domestic	4	971	1557	200.0	35.0	8	9.0	1.7	6.3	193	2011	N	1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2011	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2011		2				2						
Downbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2011		16		16								
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2011	N	2								2		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2011	N	4								4		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2011	N	1								1		
Downbound	Domestic	4	764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2011	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2011		1								1		
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2011		1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2011	N	2				2						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2011	N	1				1						
Downbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2011	N	4				4						
Downbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1				1						
Downbound	Domestic	4	966	1630	200.0	35.0	9	9.0	1.6	7.4	193	2011	N	1				1						
Downbound	Domestic	4	000687	1474	195.0	35.0	8	9.0	1.8	6.2	145	2011	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2011		2				2						
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	120	2011		2										2
Downbound	Domestic	5	001760	4190	298.5	54.0	9	11.0	2.0	7.0	220	2011	N	1						1				
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	145	2011	N	1				1						
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2011		1						1				
Downbound	Domestic	4	1019	1449	195.0	35.0	9	9.0	1.9	7.1	203	2011	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	225	2011	N	2				2						
Downbound	Domestic	4	986	1477	195.0	35.0	8	9.0	1.8	6.2	205	2011	N	2				2						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2011	N	1				1						
Downbound	Domestic	4	764	1497	200.0	35.0	8	9.0	1.9	6.1	205	2011	N	1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2011	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2011	N	1				1						
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2011		4		4								
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2011		12		12								
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2011		33		33								
Downbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2011	N	5				5						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2011	N	7				7						
Downbound	Domestic	5	001619	3142	297.0	54.0	7	10.0	0.6	6.4	280	2011		0						0				
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2011		1						1				
Downbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2011	N	3				3						
Downbound	Domestic	4	687	1919	195.0	35.0	8	11.0	1.6	6.4	180	2011	N	1				1						
Downbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2011	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2011	N	1				1						
Downbound	Domestic	4	700	1504	195.0	35.0	2	9.0	1.6	0.4	206	2011	N	1								1		
Downbound	Domestic	3	000199	293	87.0	28.0	7	8.5	7.0	0.0	420	2011		1		1								
Downbound	Domestic	4	764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2011	N	2				2						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2011	N	21				21						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2011		5						5				
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2011		5				5						
Downbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2011	N	1				1						
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2011	N	1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	9	9.0	1.7	7.3	163	2011	N	3				3						
Downbound	Domestic	5	1634	2900	264.0	54.0	2	10.0	2.0	0.0	180	2011		1										1
Downbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2011	N	1				1						
Downbound	Domestic	4	960	1635	200.0	35.0	8	9.0	1.6	6.4	177	2011	N	1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2011	N	4				4						
Downbound	Domestic	4	764	1648	200.0	35.0	13	10.0	1.5	11.5	186	2011	N	1				1						
Downbound	Domestic	4	1008	1636	200.0	35.0	8	9.0	1.6	6.4	170	2011	N	1				1						
Downbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2011	N	2				2						
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2011	N	5								5		
Downbound	Domestic	4	578	1531	195.0	35.0	2	9.0	1.6	0.4	140	2011	N	1								1		
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2011	N	6										6
Downbound	Domestic	3	413	999999	138.0	35.2	9	9.0	8.2	0.8	406	2011	N	3		3								
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2011	N	1								1		
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2011	N	4								4		
Downbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2011		3				3						
Downbound	Domestic	5	1861	5250	356.0	54.0	11	13.0	2.0	9.0	220	2011		7						7				
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2011		1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	10.0	1.8	7.2	170	2011		2				2						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2011	N	3				3						
Downbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2011	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	9	12.0	1.5	7.5	208	2011	N	1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2011	N	1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2011	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	4				4						
Downbound	Domestic	4	909	1485	195.0	35.0	9	9.0	1.9	7.1	203	2011	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2011	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2011	N	3				3						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2011	N	1				1						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2011		6		6								
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2011		3		3								
Downbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2011		8		8								
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2011	N	10								10		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2011	N	16								16		
Downbound	Domestic	5	1551	4750	297.5	54.0	2	9.3	2.0	0.0	224	2011	N	1										1
Downbound	Domestic	4	687	1577	195.0	35.0	2	9.0	1.8	0.2	170	2011	N	1								1		
Downbound	Domestic	4	764	1517	200.0	35.0	2	9.0	1.9	0.1	225	2011	N	2								2		
Downbound	Domestic	4	000745	1863	195.0	35.0	2	10.0	2.0	0.0	9999	2011		3								3		
Downbound	Domestic	4	000764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2011	N	1								1		
Downbound	Domestic	4	000764	2528	200.0	35.0	2	13.0	1.5	0.5	186	2011		1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2011		5				5						
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2011	N	7				7						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	3				3						
Downbound	Domestic	4	000764	1578	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1				1						
Downbound	Domestic	5	1892	3000	297.0	54.0	10	8.5	2.0	8.0	100	2011		2						2				
Downbound	Domestic	4	1039	1623	200.0	35.0	9	9.0	1.7	7.3	146	2011	N	1				1						
Downbound	Domestic	4	710	1620	200.0	35.0	8	9.0	1.7	6.3	175	2011	N	1				1						
Downbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2011		2				2						
Downbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2011	N	1				1						
Downbound	Domestic	4	000746	2151	200.0	35.0	9	12.0	1.8	7.2	170	2011		1				1						
Downbound	Domestic	4	823	1728	200.0	35.0	8	9.0	1.3	6.7	155	2011	N	1				1						
Downbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2011		9		9								
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2011	N	4								4		
Downbound	Domestic	4	889	1424	195.1	35.2	2	9.0	1.1	0.9	194	2011	N	1								1		
Downbound	Domestic	4	623	1732	200.0	35.0	2	9.6	1.7	0.3	208	2011	N	1								1		
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	139	2011	N	1								1		
Downbound	Domestic	5	001622	2500	270.0	53.0	8	9.0	2.0	6.0	220	2011		2						2				
Downbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2011	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2011	N	2				2						
Downbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2011	N	1				1						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	130	2011	N	1				1						
Downbound	Domestic	4	909	1445	195.0	35.0	8	9.0	1.9	6.1	203	2011	N	1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2011	N	2				2						
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2011	N	1				1						
Downbound	Domestic	4	003195	1664	200.0	35.0	8	9.0	1.4	6.6	145	2011	N	1				1						
Downbound	Domestic	4	834	1701	195.1	35.0	8	10.0	1.7	6.3	210	2011	N	1				1						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	185	2011	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2011	N	1				1						
Downbound	Domestic	5	001633	4744	300.0	54.0	9	11.6	2.3	6.7	189	2011	N	1						1				
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2011		30		30								
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2011	N	1								1		
Downbound	Domestic	3	166	999999	95.0	28.0	7	7.0	6.5	0.5	400	2011		1		1								
Downbound	Domestic	4	697	1729	195.0	35.0	2	10.0	1.5	0.5	176	2011	N	2								2		
Downbound	Domestic	4	764	1558	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	1								1		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	196	2011	N	2								2		
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2011	N	1								1		
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2011		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2011		4				4						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2011	N	1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2011	N	5				5						
Downbound	Domestic	4	764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2011	N	1				1						
Downbound	Domestic	4	931	1655	200.0	35.0	8	9.0	1.5	6.5	190	2011	N	2				2						
Downbound	Domestic	4	000764	1633	200.0	35.0	12	9.0	1.6	10.4	225	2011	N	2				2						
Downbound	Domestic	4	680	2680	200.0	35.0	8	11.0	1.5	6.5	208	2011	N	1				1						
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2011		1						1				
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2011		3						3				
Downbound	Domestic	4	745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2011	N	10				10						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	7				7						
Downbound	Domestic	4	696	1644	200.0	35.0	9	9.0	1.6	7.4	180	2011	N	1				1						
Downbound	Domestic	5	1619	3891	297.5	54.0	10	10.5	1.5	8.5	175	2011		1						1				
Downbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2011	N	1										1
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2011		3						3				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2011	N	2								2		
Downbound	Domestic	4	823	2410	200.0	35.0	2	14.0	1.5	0.5	190	2011	N	1								1		
Downbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2011		1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2011		5				5						
Downbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2011	N	1				1						
Downbound	Domestic	4	000764	1633	200.0	35.0	13	9.0	1.6	11.4	225	2011	N	5				5						
Downbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.5	7.5	160	2011	N	1				1						
Downbound	Domestic	4	000764	1858	200.0	35.0	9	10.0	1.6	7.4	191	2011	N	1				1						
Downbound	Domestic	5	001633	4744	300.0	54.0	8	11.6	2.3	5.7	189	2011	N	1						1				
Downbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.6	0.4	250	2011	N	1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2011	N	2								2		
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2011	N	2								2		
Downbound	Domestic	4	000764	2300	200.0	35.0	2	12.0	1.6	0.4	200	2011	N	1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	1								1		
Downbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2011	N	1				1						
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2011		6						6				
Downbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2011		2				2						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2011		3				3						
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2011	N	1				1						
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	6				6						
Downbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2011	N	1				1						
Downbound	Domestic	4	909	1442	195.0	35.0	8	9.0	1.9	6.1	203	2011	N	1				1						
Downbound	Domestic	4	000971	1668	200.1	35.1	8	8.7	1.4	6.6	182	2011	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2011	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2011	N	1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2011		5		5								
Downbound	Domestic	4	745	1915	195.0	35.0	2	11.0	1.7	0.3	224	2011		1								1		
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2011	N	2								2		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2011	N	3								3		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	170	2011		3								3		
Downbound	Domestic	3	000177	999999	85.8	32.0	10	10.0	8.0	2.0	480	2011		1		1								
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2011		7						7				
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2011		7						7				
Downbound	Domestic	4	000764	1619	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2011	N	2				2						
Downbound	Domestic	4	705	1644	200.0	35.0	9	9.0	1.5	7.5	140	2011	N	1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2011	N	1				1						
Downbound	Domestic	4	710	1654	200.0	35.0	8	9.0	1.5	6.5	147	2011	N	1				1						
Downbound	Domestic	4	000764	1609	200.0	35.0	11	9.0	3.0	8.0	9999	2011	N	1				1						
Downbound	Domestic	5	1659	2500	295.0	54.0	9	9.0	2.0	7.0	90	2011		1						1				
Downbound	Domestic	4	823	2750	200.0	35.0	2	14.0	1.5	0.5	215	2011	N	1								1		
Downbound	Domestic	4	823	1536	200.0	35.0	2	9.0	1.6	0.4	175	2011	N	1								1		
Downbound	Domestic	3	251	999999	95.3	32.1	9	8.6	7.6	1.4	405	2011		1		1								
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2011	N	1								1		
Downbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2011	N	2				2						
Downbound	Domestic	5	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1						1				
Downbound	Domestic	4	763	2290	195.0	35.0	8	12.0	1.7	6.3	235	2011	N	1				1						
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2011	N	3				3						
Downbound	Domestic	4	764	1673	200.0	35.0	8	9.0	1.4	6.6	165	2011	N	1				1						
Downbound	Domestic	5	1943	3500	295.0	54.0	9	10.0	2.0	7.0	220	2011		3						3				
Downbound	Domestic	4	1009	1683	200.0	35.0	8	9.0	1.2	6.8	193	2011	N	1				1						
Downbound	Domestic	4	578	1531	195.0	35.0	8	9.0	1.6	6.4	140	2011	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2011	N	3				3						
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2011		1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	8	9.0	1.5	6.5	170	2011	N	1				1						
Downbound	Domestic	4	823	2282	200.0	35.0	10	12.6	1.7	8.3	190	2011	N	1				1						
Downbound	Domestic	4	1009	1520	195.0	35.0	8	9.0	1.6	6.4	192	2011	N	1				1						
Downbound	Domestic	4	601	1616	195.0	35.0	8	9.0	1.4	6.6	132	2011	N	1				1						
Downbound	Domestic	5	1632	4896	300.0	54.0	2	9.0	2.0	0.0	189	2011	N	1										1
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2011	N	1				1						
Downbound	Domestic	5	001637	3390	297.5	54.0	9	11.0	2.0	7.0	160	2011		1						1				
Downbound	Domestic	5	001632	3526	300.0	54.0	2	10.0	2.3	-0.3	189	2011	N	1										1
Downbound	Domestic	4	1065	1659	200.0	35.0	2	9.0	1.5	0.5	185	2011	N	1								1		
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2011	N	1										1
Downbound	Domestic	4	687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2011		1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2011	N	11				11						
Downbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.5	6.5	160	2011	N	1				1						
Downbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2011	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2011	N	2				2						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	2				2						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2011		1				1						
Downbound	Domestic	4	000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2011	N	1				1						
Downbound	Domestic	5	001619	3891	297.5	54.0	9	10.5	1.5	7.5	175	2011		7						7				
Downbound	Domestic	4	823	1825	200.0	35.0	2	9.0	1.7	0.3	210	2011	N	1								1		
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2011	N	4				4						
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2011		8				8						
Downbound	Domestic	4	764	1648	200.0	35.0	11	10.0	1.5	9.5	186	2011	N	2				2						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2011	N	3				3						
Downbound	Domestic	5	001619	3444	297.0	54.0	5	10.0	0.6	4.4	280	2011		1						1				
Downbound	Domestic	5	1721	3300	297.6	54.1	10	10.0	2.0	8.0	180	2011		3						3				
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2011	N	2				2						
Downbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2011	N	1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	1				1						
Downbound	Domestic	4	823	2469	200.0	35.0	8	12.0	2.0	6.0	191	2011	N	1				1						
Downbound	Domestic	4	823	1641	200.0	35.0	9	9.0	1.4	7.6	160	2011	N	1				1						
Downbound	Domestic	4	909	1485	195.0	35.0	9	9.0	1.7	7.3	203	2011	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2011	N	3				3						
Downbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2011	N	2				2						
Downbound	Domestic	4	000706	1614	200.0	35.0	8	9.0	1.4	6.6	145	2011	N	2				2						
Downbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2011	N	1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2011	N	2				2						
Downbound	Domestic	4	705	2077	200.0	35.0	8	11.0	1.0	7.0	120	2011	N	1				1						
Downbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	191	2011	N	1				1						
Downbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2011	N	1				1						
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2011		15		15								
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2011		13		13								
Downbound	Domestic	3	000169	999999	88.9	30.0	9	9.0	9.0	0.0	428	2011		6		6								
Downbound	Domestic	3	533	999999	140.0	42.0	6	8.6	6.6	-0.6	430	2011		3		3								
Downbound	Domestic	5	001918	3100	297.5	54.0	2	10.3	2.0	0.0	193	2011		1										1
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2011		1								1		
Downbound	Domestic	5	000814	1447	195.0	35.0	2	9.0	1.9	0.1	170	2011	N	3										3
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2011	N	3								3		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2011	N	5								5		
Downbound	Domestic	5	914	2800	147.5	52.5	12	13.0	2.0	10.0	180	2011		2						2				
Downbound	Domestic	4	000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2011	N	1				1						
Downbound	Domestic	4	000687	1515	195.0	35.0	8	9.0	1.4	6.6	150	2011	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2011	N	1				1						
Downbound	Domestic	5	1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2011		4						4				
Downbound	Domestic	5	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1						1				
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2011	N	6				6						
Downbound	Domestic	4	909	1442	195.0	35.0	9	9.0	1.9	7.1	203	2011	N	1				1						
Downbound	Domestic	4	000764	2528	200.0	35.0	9	13.0	1.5	7.5	186	2011		1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2011	N	2				2						
Downbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2011	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2011		32		32								
Downbound	Domestic	4	688	1912	195.0	35.0	2	10.0	1.7	0.3	160	2011	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2011	N	10								10		
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2011	N	2								2		
Downbound	Domestic	4	736	1884	200.0	35.0	2	10.0	1.5	0.5	176	2011	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	15.0	3.0	-1.0	9999	2011	N	1								1		
Downbound	Domestic	5	716	1450	195.0	35.0	3	8.5	2.7	0.3	145	2011		1										1
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2011		1				1						
Downbound	Domestic	4	800	1699	195.0	35.0	8	10.0	1.8	6.2	164	2011		1				1						
Downbound	Domestic	4	694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2011	N	1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	235	2011	N	2				2						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2011	N	2				2						
Downbound	Domestic	5	001619	3891	297.5	54.0	10	10.5	1.5	8.5	175	2011		2						2				
Downbound	Domestic	3	185	999999	56.0	28.0	8	7.0	6.0	2.0	320	2011		1		1								
Downbound	Domestic	5	000745	2292	195.0	35.0	2	15.0	3.0	-1.0	9999	2011	N	1										1
Downbound	Domestic	4	823	1662	200.0	35.0	2	13.0	1.6	0.4	230	2011	N	1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	13.0	1.8	0.2	190	2011	N	2								2		
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2011		10				10						
Downbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2011	N	4				4						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2011	N	15				15						
Downbound	Domestic	4	975	1489	195.0	35.0	8	9.0	1.7	6.3	145	2011	N	1				1						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2011	N	17				17						
Downbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.5	7.5	215	2011	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2011	N	3				3						
Downbound	Domestic	4	945	1424	195.0	35.0	8	9.0	1.1	6.9	190	2011	N	1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	224	2011	N	1				1						
Downbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2011	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2011		4								4		
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2011	N	9								9		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2011	N	2								2		
Downbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.5	0.5	155	2011	N	2								2		
Downbound	Domestic	4	764	2187	200.0	35.0	2	11.0	1.7	0.3	240	2011		1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	1.6	0.4	220	2011	N	1								1		
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2011	N	6				6						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2011	N	11				11						
Downbound	Domestic	4	000705	1650	200.0	35.0	8	12.0	1.5	6.5	208	2011	N	1				1						
Downbound	Domestic	4	711	1527	195.0	35.0	9	9.0	1.4	7.6	145	2011	N	1				1						
Downbound	Domestic	4	705	1648	200.0	35.0	12	12.0	1.5	10.5	186	2011	N	1				1						
Downbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2011	N	3				3						
Downbound	Domestic	4	745	1494	195.0	35.0	9	9.0	1.6	7.4	166	2011	N	4				4						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	170	2011	N	1				1						
Downbound	Domestic	4	964	2098	200.0	35.0	9	11.0	1.5	7.5	218	2011		1				1						
Downbound	Domestic	4	910	1489	195.0	35.0	8	9.0	1.7	6.3	203	2011	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	9	9.0	1.6	7.4	205	2011	N	1				1						
Downbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	170	2011	N	1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2011		1				1						
Downbound	Domestic	4	764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	1				1						
Downbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2011	N	1				1						
Downbound	Domestic	4	675	1506	195.0	35.0	2	9.0	1.5	0.5	155	2011	N	1								1		
Downbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	160	2011	N	2								2		
Downbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2011	N	2								2		
Downbound	Domestic	5	788	1481	195.0	35.0	3	9.2	2.5	0.5	186	2011	N	1										1
Downbound	Domestic	4	764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2011		1								1		
Downbound	Domestic	4	000764	1800	200.0	35.0	2	9.0	1.4	0.6	155	2011	N	1								1		
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2011		3				3						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2011	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2011	N	2				2						
Downbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2011		4						4				
Downbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	216	2011	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2011	N	1				1						
Downbound	Domestic	4	000764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2011	N	1				1						
Downbound	Domestic	4	975	1449	195.0	35.0	9	9.0	1.9	7.1	203	2011	N	1				1						
Downbound	Domestic	4	676	1516	195.0	35.0	8	9.0	1.6	6.4	130	2011	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	3				3						
Downbound	Domestic	4	000705	1645	200.0	35.0	7	9.0	1.5	5.5	205	2011	N	1				1						
Downbound	Domestic	4	000706	1557	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2011		1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	148	2011	N	1				1						
Downbound	Domestic	4	700	1511	195.0	35.0	2	9.0	1.6	0.4	190	2011	N	1								1		
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2011	N	4								4		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	170	2011	N	2								2		
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2011		12						12				
Downbound	Domestic	4	921	1700	195.0	35.0	8	10.0	1.9	6.1	193	2011		2				2						
Downbound	Domestic	4	705	1651	200.0	35.0	8	9.0	2.0	6.0	196	2011	N	5				5						
Downbound	Domestic	4	933	1527	195.0	35.0	12	11.0	1.5	10.5	199	2011	N	2				2						
Downbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2011	N	2										2
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2011	N	2				2						
Downbound	Domestic	4	695	1500	195.0	35.0	8	9.0	1.6	6.4	200	2011	N	1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	8				8						
Downbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2011	N	1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2011		1				1						
Downbound	Domestic	3	000255	375	110.0	34.0	8	8.0	7.5	0.5	380	2011		1		1								
Downbound	Domestic	3	000095	999999	76.0	34.0	7	11.0	11.0	-4.0	550	2011		1		1								
Downbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	169	2011	N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2011	N	2				2						
Downbound	Domestic	5	1619	3660	297.5	54.0	2	11.0	2.0	0.0	160	2011		1										1
Downbound	Domestic	4	834	1701	195.0	35.0	2	10.0	1.7	0.3	210	2011	N	1								1		
Downbound	Domestic	4	687	1577	195.0	35.0	2	9.0	1.8	0.2	169	2011	N	1								1		
Downbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2011	N	3				3						
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2011		7				7						
Downbound	Domestic	4	907	1733	195.0	35.0	8	10.0	1.6	6.4	200	2011		2				2						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2011	N	4				4						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2011	N	3				3						
Downbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2011	N	1				1						
Downbound	Domestic	4	705	1687	200.0	35.0	8	9.0	1.3	6.7	146	2011	N	1				1						
Downbound	Domestic	4	889	1464	195.1	35.2	9	9.0	1.8	7.2	194	2011	N	1				1						
Downbound	Domestic	4	1024	1423	195.0	35.0	8	9.0	1.9	6.1	212	2011	N	1				1						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2011	N	3				3						
Downbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2011	N	2				2						
Downbound	Domestic	4	676	1725	195.0	35.0	8	10.0	1.6	6.4	200	2011		1				1						
Downbound	Domestic	5	001619	3517	297.0	54.0	12	10.0	0.6	11.4	280	2011		1						1				
Downbound	Domestic	5	001619	3612	300.0	54.0	2	9.3	2.0	0.0	190	2011	N	1										1
Downbound	Domestic	4	000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2011	N	3								3		
Downbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2011	N	4								4		
Downbound	Domestic	4	000764	1534	200.0	35.0	5	9.0	1.7	3.3	199	2011	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2011	N	1								1		
Downbound	Domestic	5	2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2011		4						4				
Downbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2011	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2011	N	7				7						
Downbound	Domestic	4	000764	1574	200.0	35.0	12	9.0	3.0	9.0	9999	2011	N	1				1						
Downbound	Domestic	5	001619	3656	297.5	54.0	9	9.0	1.5	7.5	150	2011		3						3				
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2011	N	2				2						
Downbound	Domestic	4	1039	1623	200.0	35.0	8	9.0	1.7	6.3	146	2011	N	2				2						
Downbound	Domestic	5	1724	3300	297.6	54.1	11	10.0	2.0	9.0	180	2011		1						1				
Downbound	Domestic	5	1634	2900	264.0	54.0	9	10.0	2.0	7.0	180	2011		1						1				
Downbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2011	N	1				1						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	2				2						
Downbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2011		13		13								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	000764	1862	200.0	35.0	3	10.0	1.5	1.5	191	2011	N	1								1		
Downbound	Domestic	4	736	1654	200.0	35.0	2	9.0	1.5	0.5	185	2011	N	1								1		
Downbound	Domestic	5	886	1489	195.0	35.0	2	9.0	1.3	0.7	164	2011	N	1										1
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2011	N	2				2						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2011	N	6				6						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2011	N	5				5						
Downbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2011	N	3				3						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2011		1				1						
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2011	N	6				6						
Downbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2011	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	234	2011		1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	1				1						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	190	2011	N	1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2011		2						2				
Downbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	9	10.0	1.6	7.4	210	2011	N	1				1						
Downbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2011	N	1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2011	N	1				1						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2011	N	1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2011	N	2								2		
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2011	N	2								2		
Downbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2011	N	2								2		
Downbound	Domestic	4	764	1617	200.0	35.0	2	9.0	1.6	0.4	225	2011	N	1								1		
Downbound	Domestic	5	1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2011		7						7				
Downbound	Domestic	4	000764	2187	200.0	35.0	8	12.0	1.7	6.3	210	2011		1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2011		3				3						
Downbound	Domestic	5	001455	3200	295.0	54.0	9	10.0	2.0	7.0	170	2011		4						4				
Downbound	Domestic	4	687	1491	195.0	35.0	8	9.0	1.8	6.2	240	2011	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2011	N	29				29						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	6				6						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2011	N	3				3						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2011	N	2				2						
Downbound	Domestic	4	909	1445	195.0	35.0	9	9.0	1.9	7.1	203	2011	N	1				1						
Downbound	Domestic	4	000764	1536	200.0	35.0	9	9.0	1.8	7.2	225	2011	N	1				1						
Downbound	Domestic	5	001637	3390	297.5	54.0	10	11.0	2.0	8.0	160	2011		2						2				
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2011	N	5								5		
Downbound	Domestic	4	000764	2500	200.0	35.0	2	9.0	1.7	0.3	206	2011		1								1		
Downbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2011		16								16		
Downbound	Domestic	4	000764	1615	200.0	35.0	2	11.0	1.8	0.2	170	2011		1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2011		6				6						
Downbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2011		2				2						
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2011	N	1				1						
Downbound	Domestic	4	000695	1520	195.0	35.0	8	9.0	1.6	6.4	179	2011	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2011	N	1				1						
Downbound	Domestic	4	690	1505	195.0	35.0	9	9.0	1.6	7.4	146	2011	N	1				1						
Downbound	Domestic	4	000764	1548	200.0	35.0	14	9.0	3.0	11.0	9999	2011	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2011		1				1						
Downbound	Domestic	5	002099	4226	356.0	54.0	8	10.0	0.6	7.4	280	2011		1						1				
Downbound	Domestic	4	706	1614	200.0	35.0	8	9.0	1.2	6.8	145	2011	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2011	N	2				2						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2011	N	1				1						
Downbound	Domestic	4	705	1609	200.0	35.0	2	9.0	1.7	0.3	175	2011	N	1								1		
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2011	N	4								4		
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2011	N	1								1		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.7	0.3	215	2011	N	1								1		
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2011		6				6						
Downbound	Domestic	4	676	1912	195.0	35.0	8	11.0	1.8	6.2	180	2011		1				1						
Downbound	Domestic	4	783	1902	195.0	35.0	8	11.0	1.9	6.1	199	2011		3				3						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2011	N	3				3						
Downbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.6	7.4	143	2011	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2011	N	3				3						
Downbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	2				2						
Downbound	Domestic	4	771	1660	200.0	35.0	8	9.0	1.4	6.6	218	2011	N	1				1						
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2011	N	1				1						
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2011	N	4				4						
Downbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2011	N	1				1						
Downbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2011		28		28								
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2011		4		4								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2011	N	8								8		
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2011	N	4								4		
Downbound	Domestic	4	743	1640	200.0	35.0	2	9.0	2.0	0.0	165	2011		1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	8	9.0	1.4	6.6	208	2011		1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2011	N	2				2						
Downbound	Domestic	4	950	1658	200.0	35.0	8	9.0	1.5	6.5	180	2011	N	1				1						
Downbound	Domestic	4	705	1877	200.0	35.0	9	10.0	1.4	7.6	146	2011	N	1				1						
Downbound	Domestic	4	705	1609	200.0	35.0	8	9.0	1.7	6.3	175	2011	N	2				2						
Downbound	Domestic	4	000907	1520	195.0	35.0	8	9.0	1.6	6.4	165	2011	N	1				1						
Downbound	Domestic	4	1223	1651	200.0	35.0	7	8.9	1.5	5.5	190	2011	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2011		1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2011		1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2011	N	2				2						
Downbound	Domestic	4	910	1449	195.0	35.0	9	9.0	1.9	7.1	203	2011	N	1				1						
Downbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2011	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2011		2				2						
Downbound	Domestic	5	1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2011		1						1				
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2011		22		22								
Downbound	Domestic	4	957	1665	200.0	35.0	2	9.0	1.4	0.6	186	2011	N	1								1		
Downbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2011		3		3								
Downbound	Domestic	4	546	1665	200.0	35.0	2	9.0	2.0	0.0	190	2011	N	1								1		
Downbound	Domestic	4	694	1743	195.0	35.0	2	10.0	1.6	0.4	176	2011	N	1								1		
Downbound	Domestic	4	000260	1075	172.0	54.0	6	12.0	6.0	0.0	550	2011	N	1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2011		2				2						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2011		1				1						
Downbound	Domestic	4	000823	1800	200.0	35.0	13	9.0	1.5	11.5	180	2011	N	1				1						
Downbound	Domestic	4	688	1519	195.0	35.0	8	9.0	1.6	6.4	160	2011	N	2				2						
Downbound	Domestic	4	690	1500	195.0	35.0	8	9.0	1.9	6.1	149	2011	N	1				1						
Downbound	Domestic	4	909	1485	195.0	35.0	8	9.0	1.7	6.3	203	2011	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2011	N	2				2						
Downbound	Domestic	5	1876	3300	297.5	54.0	9	10.0	2.0	7.0	180	2011		3						3				
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2011	N	7				7						
Downbound	Domestic	4	705	1889	200.0	35.0	9	10.0	1.4	7.6	140	2011	N	1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2011	N	8				8						
Downbound	Domestic	4	745	1504	195.0	35.0	8	9.0	1.6	6.4	166	2011	N	1				1						
Downbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2011	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	155	2011		1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2011		1								1		
Downbound	Domestic	4	000745	2235	195.0	13.0	2	15.0	3.0	-1.0	9999	2011	N	2								2		
Downbound	Domestic	4	748	1642	200.0	35.0	2	9.0	1.6	0.4	196	2011	N	1								1		
Downbound	Domestic	4	705	1660	200.0	35.0	2	9.0	1.4	0.6	218	2011	N	1								1		
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2011		3				3						
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2011		4				4						
Downbound	Domestic	5	001619	3444	297.0	54.0	7	10.0	0.6	6.4	280	2011		0						0				
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2011	N	3				3						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2011	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2011		1				1						
Downbound	Domestic	4	950	1666	200.0	35.0	9	9.0	1.4	7.6	180	2011	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2011	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.7	6.3	240	2011		1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	9	11.0	2.0	7.0	180	2011		1						1				
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2011		4								4		
Downbound	Domestic	5	774	1379	195.0	35.0	2	8.6	1.6	0.4	175	2011	N	1										1
Downbound	Domestic	4	1664	2010	200.0	35.0	2	10.6	1.3	0.7	220	2011		1								1		
Downbound	Domestic	5	855	1490	195.0	35.0	2	9.0	2.0	0.0	170	2011		1										1
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2011	N	5				5						
Downbound	Domestic	5	1816	5450	356.0	54.0	11	13.0	2.0	9.0	220	2011		7						7				
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2011	N	5				5						
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2011	N	5				5						
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2011		4						4				
Downbound	Domestic	5	1419	3000	230.0	54.0	9	10.0	2.0	7.0	170	2011		3						3				
Downbound	Domestic	5	1619	4048	297.5	54.0	8	11.5	2.0	6.0	190	2011		2						2				
Downbound	Domestic	4	000705	1250	200.0	35.0	2	10.0	1.5	0.5	135	2011	N	2								2		
Downbound	Domestic	3	453	999999	150.0	45.0	9	9.3	8.6	0.4	380	2011	N	2		2								
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2011	N	2								2		
Downbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2011	N	1								1		
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2011		4				4						
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	13								13		
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2011	N	3				3						
Downbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2011	N	1				1						
Downbound	Domestic	4	764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2011	N	1				1						
Downbound	Domestic	4	1013	1520	195.0	35.0	8	8.7	1.6	6.4	211	2011	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2011		2				2						
Downbound	Domestic	4	764	1559	200.0	35.0	7	9.0	1.5	5.5	170	2011	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2011	N	1				1						
Downbound	Domestic	3	000334	491	140.0	38.0	9	9.6	8.6	0.4	430	2011		1		1								
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2011		2		2								
Downbound	Domestic	5	001841	3200	290.0	54.0	10	10.0	2.0	8.0	220	2011		6						6				
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2011		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2011	N	4				4						
Downbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2011	N	8				8						
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2011		3				3						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2011		3				3						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2011	N	1				1						
Downbound	Domestic	5	2099	5067	356.0	54.0	8	11.0	0.6	7.4	280	2011		1						1				
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2011	N	3				3						
Downbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2011	N	3				3						
Downbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2011	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2011	N	6				6						
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2011		1				1						
Downbound	Domestic	4	910	1466	195.1	35.1	8	9.0	1.9	6.1	185	2011	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2011	N	4				4						
Downbound	Domestic	5	001633	3860	300.0	54.0	2	10.0	2.0	0.0	189	2011	N	1										1
Downbound	Domestic	4	000764	1650	200.0	35.0	10	12.0	1.5	8.5	208	2011	N	1				1						
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2011	N	11								11		
Downbound	Domestic	4	000823	1536	200.0	35.0	2	9.0	1.7	0.3	140	2011		1								1		
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2011	N	1								1		
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2011	N	4								4		
Downbound	Domestic	3	000219	322	120.0	35.0	8	10.0	8.0	0.0	290	2011		1		1								
Downbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2011		2				2						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2011		3				3						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2011	N	3				3						
Downbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2011	N	2				2						
Downbound	Domestic	4	000705	1650	200.0	35.0	8	10.0	1.5	6.5	208	2011	N	1				1						
Downbound	Domestic	4	630	1450	195.0	35.0	8	8.0	1.5	6.5	136	2011	N	1				1						
Downbound	Domestic	4	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2011	N	1				1						
Downbound	Domestic	5	1632	4744	300.0	54.0	9	11.6	2.3	6.7	189	2011	N	1						1				
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2011		4		4								
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2011	N	4										4
Downbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2011	N	3								3		
Downbound	Domestic	4	705	1633	200.0	35.0	2	9.0	1.6	0.4	160	2011	N	2								2		
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2011	N	1								1		
Downbound	Domestic	5	2099	4809	356.0	54.0	8	11.0	0.6	7.4	280	2011		1						1				
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2011	N	2				2						
Downbound	Domestic	4	975	1449	195.0	35.0	8	9.0	1.9	6.1	203	2011	N	1				1						
Downbound	Domestic	4	687	1633	195.0	35.0	8	9.0	1.4	6.6	133	2011	N	1				1						
Downbound	Domestic	5	001619	1869	297.5	54.0	10	10.0	1.7	8.3	191	2011		2						2				
Downbound	Domestic	4	543	1497	195.0	35.0	2	9.0	1.6	0.4	119	2011	N	1								1		
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	190	2011	N	1								1		
Downbound	Domestic	4	000764	2187	200.0	35.0	9	12.0	1.7	7.3	210	2011		1				1						
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2011	N	3				3						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2011	N	2				2						
Downbound	Domestic	4	723	1875	200.0	35.0	9	10.0	1.7	7.3	163	2011	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2011	N	1				1						
Downbound	Domestic	4	543	1487	195.0	35.0	8	9.0	1.6	6.4	183	2011	N	1				1						
Downbound	Domestic	4	745	1496	195.0	35.0	8	9.0	1.6	6.4	166	2011	N	2				2						
Downbound	Domestic	4	676	1492	195.0	35.0	8	9.0	1.8	6.2	162	2011	N	1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	1				1						
Downbound	Domestic	4	688	2142	195.0	35.0	7	11.0	1.5	5.5	160	2011	N	1				1						
Downbound	Domestic	5	805	1433	195.0	35.0	2	9.0	1.1	0.9	166	2011	N	2										2
Downbound	Domestic	4	000764	1935	200.0	35.0	2	11.0	1.8	0.2	195	2011	N	3								3		
Downbound	Domestic	4	711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2011		1				1						
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2011	N	5				5						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2011	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2011	N	2				2						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2011	N	4				4						
Downbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2011	N	1				1						
Downbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2011		2				2						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2011		2				2						
Downbound	Domestic	4	705	1617	200.0	35.0	9	9.0	1.6	7.4	160	2011	N	2				2						
Downbound	Domestic	4	000764	1608	200.0	35.0	9	9.0	1.7	7.3	215	2011	N	2				2						
Downbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2011		1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2011		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2011	N	17								17		
Downbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2011	N	2								2		
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	189	2011	N	1								1		
Downbound	Domestic	4	823	2469	200.0	35.0	14	13.0	1.8	12.2	230	2011	N	1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2011	N	1				1						
Downbound	Domestic	4	700	1511	195.0	35.0	8	9.0	1.6	6.4	190	2011	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2011	N	2				2						
Downbound	Domestic	4	848	1523	195.0	35.0	8	9.0	1.5	6.5	145	2011	N	1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2011	N	1				1						
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2011	N	17				17						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	2				2						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2011	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2011		1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2011	N	2				2						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2011	N	1				1						
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2011	N	2				2						
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2011	N	2				2						
Downbound	Domestic	5	795	1475	195.0	35.0	2	9.0	1.8	0.2	178	2011	N	4										4
Downbound	Domestic	4	960	1672	200.0	35.0	2	9.0	1.3	0.7	208	2011	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2011	N	1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	13.0	1.8	0.2	190	2011		2								2		
Downbound	Domestic	4	705	9100	200.0	35.0	9	10.0	1.4	7.6	208	2011		1				1						
Downbound	Domestic	4	000764	2006	200.0	35.0	11	10.0	2.0	9.0	9999	2011	N	1				1						
Downbound	Domestic	4	889	1424	195.1	35.2	9	9.0	1.1	7.9	194	2011	N	4				4						
Downbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2011	N	3				3						
Downbound	Domestic	4	952	1450	195.0	35.0	9	9.0	2.0	7.0	165	2011	N	1				1						
Downbound	Domestic	4	000687	1535	200.0	35.0	9	9.0	1.5	7.5	217	2011	N	1				1						
Downbound	Domestic	5	1961	3500	297.5	54.0	10	8.5	2.0	8.0	100	2011		1						1				
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2011	N	1				1						
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2011	N	2								2		
Downbound	Domestic	4	764	1557	200.0	35.0	2	9.0	1.5	0.5	135	2011	N	1								1		
Downbound	Domestic	4	902	1643	200.0	35.0	9	9.6	1.5	7.5	194	2011		1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2011		5				5						
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2011		2				2						
Downbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2011	N	1				1						
Downbound	Domestic	5	716	1450	195.0	35.0	9	9.0	1.5	7.5	168	2011	N	2						2				
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2011	N	1				1						
Downbound	Domestic	4	000764	1625	200.0	35.0	14	9.0	3.0	11.0	9999	2011	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2011		6								6		
Downbound	Domestic	4	710	1654	200.0	35.0	2	9.0	1.5	0.5	147	2011	N	1								1		
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2011		3				3						
Downbound	Domestic	4	574	1526	195.0	35.0	8	9.0	1.6	6.4	140	2011	N	1				1						
Downbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2011	N	1				1						
Downbound	Domestic	4	910	1546	195.1	35.1	8	9.0	1.5	6.5	145	2011	N	1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	9	10.0	1.6	7.4	192	2011		1				1						
Downbound	Domestic	4	000764	1592	200.0	35.0	12	9.0	3.0	9.0	9999	2011	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2011	N	1				1						
Downbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2011	N	2								2		
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2011	N	10								10		
Downbound	Domestic	4	705	1617	200.0	35.0	2	9.0	1.6	0.4	160	2011	N	1								1		
Downbound	Domestic	4	000764	2202	200.0	35.0	2	13.0	2.0	0.0	208	2011	N	1								1		
Downbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2011	N	5								5		
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2011	N	6				6						
Downbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2011	N	1				1						
Downbound	Domestic	4	000764	1616	200.0	35.0	8	9.0	1.6	6.4	205	2011	N	2				2						
Downbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	149	2011	N	3				3						
Downbound	Domestic	4	889	1504	195.1	35.2	8	9.0	1.6	6.4	155	2011	N	1				1						
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2011		15		15								
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2011		21								21		
Downbound	Domestic	4	85	401	110.0	26.0	2	6.5	1.2	0.8	70	2011	N	1								1		
Downbound	Domestic	4	994	1475	195.0	35.0	2	9.0	1.6	0.4	189	2011	N	1								1		
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.5	0.5	160	2011	N	1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2011	N	1								1		
Downbound	Domestic	5	716	1400	195.0	35.0	2	9.5	1.8	0.2	170	2011		1										1
Downbound	Domestic	4	705	1653	200.0	35.0	8	9.0	1.6	6.4	160	2011	N	1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2011	N	1				1						
Downbound	Domestic	4	747	1500	195.0	35.0	8	9.0	1.6	6.4	136	2011	N	3				3						
Downbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2011	N	2				2						
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2011		1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2011	N	2				2						
Downbound	Domestic	4	745	1496	195.0	35.0	9	9.0	1.6	7.4	166	2011	N	1				1						
Downbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2011	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2011	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2011		7				7						
Downbound	Domestic	4	764	1527	200.0	35.0	7	9.0	1.8	5.2	205	2011	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.8	7.2	225	2011	N	1				1						
Downbound	Domestic	4	823	1800	200.0	35.0	2	10.0	1.5	0.5	180	2011	N	1								1		
Downbound	Domestic	4	000764	1935	200.0	35.0	2	11.0	1.8	0.2	195	2011		1								1		
Downbound	Domestic	5	1876	3400	297.5	54.0	9	10.0	2.0	7.0	170	2011		3						3				
Downbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2011	N	3				3						
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2011	N	1				1						
Downbound	Domestic	4	883	1496	195.0	35.0	8	9.0	1.6	6.4	180	2011	N	1				1						
Downbound	Domestic	4	000764	1590	200.0	35.0	12	9.0	3.0	9.0	9999	2011	N	1				1						
Downbound	Domestic	5	1754	4234	297.5	54.0	9	11.0	1.5	7.5	200	2011	N	1						1				
Downbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2011	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2011		1						1				
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2011		8								8		
Downbound	Domestic	5	788	1439	195.0	35.0	2	9.0	2.0	0.0	165	2011	N	3										3
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2011	N	2								2		
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2011	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2011	N	6				6						
Downbound	Domestic	4	717	1662	200.0	35.0	8	9.0	1.4	6.6	191	2011	N	1				1						
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2011	N	4				4						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.5	8.5	160	2011	N	1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2011	N	1				1						
Downbound	Domestic	5	001771	3694	297.0	54.0	2	9.0	2.0	0.0	185	2011	N	3										3
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2011	N	2				2						
Downbound	Domestic	4	966	1654	200.0	35.0	8	9.0	1.4	6.6	193	2011	N	1				1						
Downbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2011	N	1				1						
Downbound	Domestic	4	882	1520	195.0	35.0	9	9.0	1.6	7.4	180	2011	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2011	N	1				1						
Downbound	Domestic	4	705	1877	200.0	35.0	9	10.0	1.5	7.5	146	2011	N	1				1						
Downbound	Domestic	5	1876	3300	297.5	54.0	8	10.0	2.0	6.0	180	2011		1						1				
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2011		1						1				
Downbound	Domestic	5	1619	3891	297.5	54.0	9	10.5	1.5	7.5	175	2011		1						1				
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2011		24		24								
Downbound	Domestic	3	999999	999999	72.7	24.1	2	6.0	6.0	-4.0	336	2011	N	1		1								
Downbound	Domestic	4	783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2011	N	1								1		
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2011	N	1								1		
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2011	N	8				8						
Downbound	Domestic	4	764	1626	200.0	35.0	9	9.0	1.5	7.5	165	2011	N	1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2011	N	4				4						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2011	N	2				2						
Downbound	Domestic	4	882	1520	195.0	35.0	8	9.0	1.6	6.4	180	2011	N	2				2						
Downbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2011	N	2				2						
Downbound	Domestic	4	1019	1449	195.0	35.0	8	9.0	1.9	6.1	203	2011	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2011		6				6						
Downbound	Domestic	4	000764	2202	200.0	35.0	9	13.0	2.0	7.0	208	2011		1				1						
Downbound	Domestic	4	1056	2000	200.0	35.0	8	9.0	1.3	6.7	160	2011	N	1				1						
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2011	N	11										11
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2011	N	2										2
Downbound	Domestic	4	764	1521	200.0	35.0	2	9.0	1.9	0.1	225	2011	N	1								1		
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2011	N	2								2		
Downbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2011	N	2								2		
Downbound	Domestic	4	764	1615	200.0	35.0	2	9.0	1.6	0.4	225	2011	N	1								1		
Downbound	Domestic	5	001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2011		9						9				
Downbound	Domestic	4	000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2011	N	1				1						
Downbound	Domestic	4	823	1643	200.0	35.0	11	11.0	1.5	9.5	9999	2011	N	1				1						
Downbound	Domestic	4	823	1536	200.0	35.0	9	9.0	1.6	7.4	175	2011	N	1				1						
Downbound	Domestic	4	687	1515	195.0	35.0	9	9.0	1.5	7.5	187	2011	N	1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2011	N	3				3						
Downbound	Domestic	4	910	1506	195.1	35.1	9	9.0	1.7	7.3	185	2011	N	1				1						
Downbound	Domestic	4	910	1449	195.0	35.0	7	9.0	1.9	5.1	203	2011	N	1				1						
Downbound	Domestic	4	823	1627	200.0	35.0	13	9.0	1.8	11.2	230	2011	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	1020	1633	200.0	35.0	9	9.0	1.6	7.4	149	2011	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	11	11.0	1.5	9.5	199	2011	N	1				1						
Downbound	Domestic	5	002800	2350	282.0	54.0	9	12.0	2.0	7.0	300	2011		1						1				
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2011	N	1				1						
Downbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2011	N	1								1		
Downbound	Domestic	4	823	1634	200.0	35.0	2	9.0	1.5	0.5	175	2011	N	1								1		
Downbound	Domestic	4	1664	2010	200.0	35.0	2	10.6	1.3	0.7	220	2011	N	1								1		
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2012		4			4							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2012	N	2			2							
Upbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2012	N	2			2							
Upbound	Domestic	4	000764	1653	200.0	35.0	11	9.0	3.0	8.0	9999	2012	N	1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	9	9.0	1.5	7.5	163	2012	N	1			1							
Upbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	170	2012	N	1			1							
Upbound	Domestic	4	000764	1700	200.0	35.0	4	9.0	1.9	2.1	206	2012		1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	12	13.0	2.0	10.0	165	2012	N	2			2							
Upbound	Domestic	5	001151	3275	175.0	54.0	2	9.0	1.5	0.5	164	2012		7									7	
Upbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2012		7		7								
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2012		1							1			
Upbound	Domestic	3	232	999999	110.0	32.0	7	8.6	7.5	-0.5	350	2012		2		2								
Upbound	Domestic	5	001619	3612	300.0	54.0	2	9.3	2.0	0.0	190	2012	N	1									1	
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.7	6.3	235	2012	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2012	N	21			21							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2012	N	2			2							
Upbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2012	N	2			2							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2012	N	2			2							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2012	N	2			2							
Upbound	Domestic	4	763	2290	200.0	35.0	8	12.0	1.6	6.4	236	2012	N	1			1							
Upbound	Domestic	4	705	1647	200.0	35.0	8	9.0	1.4	6.6	205	2012	N	1			1							
Upbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2012	N	1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	160	2012	N	1			1							
Upbound	Domestic	5	1754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2012		1									1	
Upbound	Domestic	4	000764	1530	200.0	35.0	7	9.0	1.7	5.3	209	2012	N	1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2012	N	2			2							
Upbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2012	N	1			1							
Upbound	Domestic	5	001619	3891	297.5	54.0	10	10.5	1.5	8.5	175	2012		2					2					
Upbound	Domestic	4	933	1658	200.0	35.0	7	9.0	1.6	5.4	177	2012	N	2			2							
Upbound	Domestic	4	764	1658	200.0	35.0	7	9.0	1.5	5.5	225	2012	N	1			1							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2012	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	10	10.0	1.6	8.4	149	2012	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	7	9.0	1.6	5.4	165	2012		1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2012		1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	213	2012		1			1							
Upbound	Domestic	4	618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2012		1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2012	N	1			1							
Upbound	Domestic	4	000764	1537	200.0	35.0	6	9.0	1.8	4.2	225	2012	N	1			1							
Upbound	Domestic	5	834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2012		5									5	
Upbound	Domestic	5	1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2012		4									4	
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2012		5									5	
Upbound	Domestic	5	001632	3000	300.0	54.0	2	12.0	2.0	0.0	225	2012	N	1									1	
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2012	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2012		18			18							
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2012	N	13			13							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2012	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2012	N	3			3							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2012		3			3							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2012		3			3							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	12.0	1.5	7.5	208	2012	N	1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2012		2			2							
Upbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	170	2012	N	1			1							
Upbound	Domestic	5	1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2012		7									7	
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2012		5									5	
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2012		8		8								
Upbound	Domestic	5	1619	3891	297.5	54.0	2	10.5	1.5	0.5	175	2012		4									4	
Upbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2012	N	2							2			
Upbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2012		2		2								
Upbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.6	0.4	225	2012	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2012	N	33			33							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2012		22			22							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2012		9			9							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2012	N	6			6							
Upbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	186	2012	N	2			2							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2012	N	1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2012	N	4			4							
Upbound	Domestic	4	764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2012	N	1			1							
Upbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2012	N	1			1							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	190	2012	N	1			1							
Upbound	Domestic	4	698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2012	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2012		1			1							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2012		4			4							
Upbound	Domestic	4	856	2312	200.0	35.0	8	12.0	1.5	6.5	217	2012	N	1			1							
Upbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2012	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2012	N	1							1			
Upbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2012	N	1							1			
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2012		2			2							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2012	N	15			15							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2012	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2012	N	3			3							
Upbound	Domestic	4	000764	1615	200.0	35.0	9	11.0	1.8	7.2	170	2012		1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2012	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2012	N	4			4							
Upbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2012	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	7	12.0	2.0	5.0	165	2012		1			1							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2012	N	2			2							
Upbound	Domestic	4	345	1450	195.0	35.0	11	10.6	2.0	9.0	120	2012	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2012	N	4			4							
Upbound	Domestic	4	001051	1600	200.0	35.0	10	10.0	3.0	7.0	9999	2012	N	1			1							
Upbound	Domestic	4	764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2012	N	2			2							
Upbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2012	N	1			1							
Upbound	Domestic	4	000764	1607	200.0	35.0	3	9.0	3.0	0.0	9999	2012	N	1							1			
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2012	N	1			1							
Upbound	Domestic	5	855	1490	195.0	35.0	9	9.5	2.0	7.0	170	2012		1					1					
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2012	N	5			5							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2012	N	3			3							
Upbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2012	N	1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2012	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2012	N	2			2							
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2012	N	2			2							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2012	N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	9	10.0	2.0	7.0	110	2012		15			15							
Upbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2012	N	2			2							
Upbound	Domestic	4	687	1724	195.0	35.0	7	10.0	1.5	5.5	206	2012		1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	1869	2012	N	1							1			
Upbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2012	N	1							1			
Upbound	Domestic	3	349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2012		2		2								
Upbound	Domestic	4	000687	1476	195.0	35.0	2	9.0	1.7	0.3	205	2012	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	687	1577	195.0	35.0	2	9.0	1.8	0.2	170	2012	N	1							1			
Upbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2012	N	20			20							
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2012	N	3			3							
Upbound	Domestic	5	000814	1447	195.0	35.0	8	9.0	1.9	6.1	170	2012	N	2					2					
Upbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2012	N	2			2							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2012		3			3							
Upbound	Domestic	4	764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2012	N	1			1							
Upbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2012	N	1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2012		2			2							
Upbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2012		1			1							
Upbound	Domestic	4	000764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2012	N	2							2			
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2012	N	7			7							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2012	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	13	12.0	1.5	11.5	186	2012	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2012		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2012	N	2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2012		7			7							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2012	N	4			4							
Upbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2012	N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	7	10.0	2.0	5.0	110	2012		22			22							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2012	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	13.0	1.8	6.2	190	2012	N	1			1							
Upbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2012	N	5									5	
Upbound	Domestic	4	834	1701	195.0	35.0	2	10.0	1.7	0.3	210	2012	N	1							1			
Upbound	Domestic	4	190	500	110.0	30.0	7	6.6	1.6	5.4	70	2012	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	13.0	2.0	9.0	208	2012	N	1			1							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2012	N	6			6							
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2012	N	6			6							
Upbound	Domestic	4	933	1527	195.0	35.0	8	9.0	1.5	6.5	199	2012	N	3			3							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.6	6.4	180	2012	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	149	2012	N	1			1							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2012	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2012	N	3			3							
Upbound	Domestic	4	823	1751	200.0	35.0	9	10.0	1.7	7.3	190	2012	N	1			1							
Upbound	Domestic	4	000764	1551	200.0	35.0	12	9.0	1.6	10.4	225	2012	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2012		1			1							
Upbound	Domestic	5	002800	2350	282.0	54.0	2	12.0	2.0	0.0	300	2012		4									4	
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2012		1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2012	N	18			18							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2012	N	2			2							
Upbound	Domestic	4	764	1608	200.0	35.0	9	9.0	1.5	7.5	225	2012	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2012	N	1			1							
Upbound	Domestic	4	000764	1615	200.0	35.0	8	12.0	1.8	6.2	170	2012		1			1							
Upbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2012		6		6								
Upbound	Domestic	5	1092	2100	175.0	54.0	3	8.5	1.3	1.7	180	2012		1									1	
Upbound	Domestic	4	000764	1568	200.0	35.0	2	9.0	1.6	0.4	204	2012	N	1							1			
Upbound	Domestic	4	000823	1750	200.0	35.0	2	10.0	1.7	0.3	215	2012	N	1							1			
Upbound	Domestic	4	706	1507	200.0	35.0	2	9.0	1.9	0.1	215	2012	N	1							1			
Upbound	Domestic	4	000823	1750	200.0	35.0	7	10.0	1.7	5.3	140	2012		1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2012	N	3			3							
Upbound	Domestic	4	823	1627	200.0	35.0	6	9.0	1.8	4.2	230	2012	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2012	N	14			14							
Upbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2012		1			1							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2012	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	7	9.0	1.7	5.3	164	2012	N	1			1							
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	11	11.0	1.5	9.5	149	2012	N	3			3							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2012	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	6	10.0	1.6	4.4	204	2012		1			1							
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2012		3									3	
Upbound	Domestic	3	000177	999999	85.8	32.0	8	10.0	8.0	0.0	480	2012		3		3								
Upbound	Domestic	3	000177	999999	85.8	32.0	7	7.0	7.0	0.0	416	2012		5		5								
Upbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2012	N	1							1			
Upbound	Domestic	4	000705	1650	200.0	35.0	2	12.0	1.5	0.5	208	2012	N	1							1			
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2012		4			4							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2012		17			17							
Upbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2012	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2012	N	13			13							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2012		1			1							
Upbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2012	N	1			1							
Upbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2012	N	1			1							
Upbound	Domestic	4	764	1865	200.0	35.0	12	12.0	1.5	10.5	208	2012	N	1			1							
Upbound	Domestic	4	745	1494	195.0	35.0	9	9.0	1.6	7.4	166	2012	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	148	2012	N	1			1							
Upbound	Domestic	4	710	1654	200.0	35.0	9	9.0	1.5	7.5	147	2012	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	216	2012	N	1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2012	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	10	14.0	1.5	8.5	165	2012		1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2012	N	1							1			
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2012	N	4			4							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2012	N	5			5							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2012	N	7			7							
Upbound	Domestic	5	835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2012	N	4					4					
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	2			2							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2012		2			2							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2012		1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	5	9.0	1.6	3.4	160	2012	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2012	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2012	N	2			2							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2012	N	1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2012	N	1			1							
Upbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2012	N	1			1							
Upbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2012		1			1							
Upbound	Domestic	5	839	1800	137.0	54.0	2	9.0	1.6	0.4	90	2012		5									5	
Upbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2012	N	1							1			
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2012	N	4							4			
Upbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2012	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2012	N	21			21							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2012	N	3			3							
Upbound	Domestic	4	705	2002	200.0	35.0	7	9.0	2.0	5.0	190	2012	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	6	10.0	1.5	4.5	9999	2012	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	7	9.0	1.7	5.3	170	2012	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	7	10.0	1.5	5.5	206	2012		2			2							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2012	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	10	9.0	1.7	8.3	225	2012	N	1			1							
Upbound	Domestic	4	000823	2058	200.0	35.0	11	14.0	2.0	9.0	9999	2012	N	2			2							
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2012		13		13								
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2012		2									2	
Upbound	Domestic	3	000202	999999	83.5	32.0	7	11.5	11.5	-4.5	412	2012		2		2								
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2012		5			5							
Upbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2012	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2012	N	2			2							
Upbound	Domestic	4	705	1684	250.0	54.0	8	11.0	1.5	6.5	200	2012	N	1			1							
Upbound	Domestic	4	000764	1546	200.0	35.0	9	9.0	1.6	7.4	205	2012	N	1			1							
Upbound	Domestic	4	745	1458	195.0	35.0	8	9.0	1.9	6.1	205	2012	N	1			1							
Upbound	Domestic	4	687	1501	195.0	35.0	12	12.0	1.5	10.5	186	2012	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	000745	1865	200.0	35.0	10	10.0	1.5	8.5	139	2012	N	5			5							
Upbound	Domestic	4	000764	1619	200.0	35.0	11	9.0	3.0	8.0	9999	2012	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2012	N	2			2							
Upbound	Domestic	4	682	1722	195.0	35.0	7	10.0	1.6	5.4	204	2012		1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2012		1			1							
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2012		35		35								
Upbound	Domestic	4	000823	2200	200.0	35.0	2	12.0	2.0	0.0	213	2012	N	1							1			
Upbound	Domestic	4	000764	2202	200.0	35.0	9	13.0	2.0	7.0	208	2012	N	3			3							
Upbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2012	N	2			2							
Upbound	Domestic	4	000764	1568	200.0	35.0	7	9.0	1.6	5.4	204	2012	N	2			2							
Upbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2012	N	8			8							
Upbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2012	N	1			1							
Upbound	Domestic	4	705	1667	200.0	35.0	8	9.0	1.7	6.3	168	2012	N	1			1							
Upbound	Domestic	5	788	1488	195.0	35.0	9	9.0	2.5	6.5	140	2012	N	1					1					
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2012		2			2							
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2012	N	5							5			
Upbound	Domestic	3	000223	999999	76.0	35.0	7	10.0	10.0	-3.0	499	2012		1		1								
Upbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2012	N	2							2			
Upbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2012	N	1							1			
Upbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2012	N	4							4			
Upbound	Domestic	5	001632	4680	300.0	54.0	2	11.9	2.2	-0.2	219	2012	N	1									1	
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2012	N	1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2012	N	2			2							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2012	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2012	N	3			3							
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2012	N	4			4							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2012	N	3			3							
Upbound	Domestic	4	000764	1935	200.0	35.0	12	11.0	1.8	10.2	9999	2012	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2012	N	1			1							
Upbound	Domestic	4	601	1400	195.0	35.0	7	10.0	2.0	5.0	110	2012		24			24							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2012		2			2							
Upbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2012		1		1								
Upbound	Domestic	5	001619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2012		7									7	
Upbound	Domestic	5	1754	4254	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	1									1	
Upbound	Domestic	4	688	1912	195.0	35.0	9	10.0	1.7	7.3	160	2012	N	3			3							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2012	N	9			9							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2012	N	1			1							
Upbound	Domestic	5	001632	3900	300.0	54.0	8	10.0	2.0	6.0	205	2012	N	2					2					
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2012	N	5			5							
Upbound	Domestic	3	67	25	89.9	24.0	8	8.0	6.0	2.0	180	2012	N	1		1								
Upbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2012	N	1			1							
Upbound	Domestic	5	766	1485	195.0	35.0	8	8.5	2.0	6.0	133	2012	N	1					1					
Upbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2012		1			1							
Upbound	Domestic	5	1619	4048	297.5	54.0	2	11.5	2.0	0.0	190	2012		25									25	
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2012	N	7			7							
Upbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2012	N	3			3							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2012	N	1			1							
Upbound	Domestic	4	000745	1800	200.0	35.0	10	10.0	3.0	7.0	9999	2012	N	1			1							
Upbound	Domestic	5	788	1439	195.0	35.0	8	9.0	2.0	6.0	165	2012	N	2					2					
Upbound	Domestic	4	000764	2007	200.0	35.0	9	14.0	3.0	6.0	9999	2012	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2012		1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2012	N	1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	10	13.0	1.5	8.5	9999	2012	N	1			1							
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2012		10		10								
Upbound	Domestic	5	1632	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2012	N	1									1	
Upbound	Domestic	5	2099	5067	356.0	54.0	1	11.0	0.6	0.4	280	2012		1									1	
Upbound	Domestic	5	1754	4240	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	1									1	
Upbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	9999	2012	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2012	N	1			1							
Upbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2012		1			1							
Upbound	Domestic	4	748	1642	200.0	35.0	8	9.0	1.6	6.4	196	2012	N	1			1							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2012	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2012	N	4			4							
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2012	N	2			2							
Upbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2012		5			5							
Upbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2012	N	2			2							
Upbound	Domestic	4	823	2295	200.0	35.0	9	12.0	1.4	7.6	227	2012	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2012	N	1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	7	9.0	1.5	5.5	180	2012		1			1							
Upbound	Domestic	5	1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2012		7									7	
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2012		2		2								
Upbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.4	0.6	215	2012	N	2							2			
Upbound	Domestic	4	823	2410	200.0	35.0	2	14.0	1.5	0.5	190	2012	N	1							1			
Upbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2012	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	210	2012		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2012	N	5			5							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2012		6			6							
Upbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	210	2012	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2012	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2012		3			3							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2012		1			1							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2012	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2012	N	3			3							
Upbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	169	2012	N	2			2							
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	3			3							
Upbound	Domestic	4	823	2739	200.0	35.0	12	14.0	1.6	10.4	250	2012	N	1			1							
Upbound	Domestic	4	772	2197	200.0	35.0	10	12.0	1.6	8.4	130	2012	N	1			1							
Upbound	Domestic	4	687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2012		1			1							
Upbound	Domestic	5	914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2012		3									3	
Upbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2012	N	4							4			
Upbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2012	N	1							1			
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2012		6			6							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2012	N	10			10							
Upbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2012	N	4			4							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2012	N	5			5							
Upbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2012	N	1			1							
Upbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2012	N	1			1							
Upbound	Domestic	4	000802	2500	105.0	35.0	8	10.0	2.0	6.0	9999	2012	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	11.0	1.5	9.5	208	2012	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	6	10.0	1.7	4.3	190	2012	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2012		1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	9	9.0	1.6	7.4	205	2012	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2012		6		6								
Upbound	Domestic	5	1961	3500	297.5	54.0	2	8.5	2.0	0.0	100	2012		6									6	
Upbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2012		41		41								
Upbound	Domestic	4	862	1539	195.0	35.0	2	9.0	1.5	0.5	192	2012	N	1							1			
Upbound	Domestic	4	000601	1450	195.0	35.0	2	10.5	2.0	0.0	120	2012	N	1							1			
Upbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2012		5		5								
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2012	N	1							1			
Upbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2012	N	3							3			
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2012		2			2							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2012		7			7							
Upbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2012		2			2							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2012	N	2			2							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2012	N	2			2							
Upbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2012	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	687	1501	195.0	35.0	11	10.0	1.5	9.5	186	2012	N	2			2							
Upbound	Domestic	4	601	1400	195.0	35.0	10	10.0	2.0	8.0	110	2012		2			2							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2012	N	3			3							
Upbound	Domestic	3	170	999999	85.0	30.0	7	7.6	7.6	-0.6	320	2012		1		1								
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2012		3		3								
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2012	N	1							1			
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2012		16			16							
Upbound	Domestic	4	696	2297	200.0	35.0	7	10.0	1.4	5.6	185	2012	N	2			2							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2012	N	7			7							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2012	N	3			3							
Upbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	154	2012	N	1			1							
Upbound	Domestic	4	764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2012	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2012		1			1							
Upbound	Domestic	4	950	1666	200.0	35.0	8	9.0	1.4	6.6	180	2012	N	1			1							
Upbound	Domestic	4	000745	1705	195.0	35.0	2	10.0	1.6	0.4	139	2012	N	1							1			
Upbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	154	2012	N	1							1			
Upbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2012	N	2							2			
Upbound	Domestic	4	000823	2410	200.0	35.0	2	14.0	1.5	0.5	120	2012	N	1							1			
Upbound	Domestic	5	001619	3270	297.0	54.0	1	10.0	0.6	0.4	280	2012		1									1	
Upbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.5	0.5	160	2012	N	1							1			
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2012		9			9							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	125	2012		1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	13.0	1.6	7.4	230	2012	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2012	N	4			4							
Upbound	Domestic	4	531	1530	200.0	35.0	8	9.0	1.5	6.5	217	2012	N	2			2							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2012	N	1					1					
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2012	N	9					9					
Upbound	Domestic	4	000687	1462	195.0	35.0	5	9.0	1.9	3.1	205	2012	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2012	N	1			1							
Upbound	Domestic	4	000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2012		1			1							
Upbound	Domestic	4	000705	1650	200.0	35.0	12	12.0	1.5	10.5	208	2012	N	1			1							
Upbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2012		4		4								
Upbound	Domestic	4	000764	1650	200.0	35.0	2	11.0	1.5	0.5	208	2012	N	1							1			
Upbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2012		1		1								
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2012		2			2							
Upbound	Domestic	4	823	2310	200.0	35.0	7	12.0	1.5	5.5	225	2012		1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2012		5			5							
Upbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2012	N	3			3							
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2012	N	1			1							
Upbound	Domestic	4	687	1501	195.0	35.0	10	12.0	1.5	8.5	186	2012	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	2			2							
Upbound	Domestic	4	688	1540	200.0	35.0	9	9.0	1.5	7.5	210	2012	N	1			1							
Upbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2012	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2012		3			3							
Upbound	Domestic	4	000823	2739	200.0	35.0	12	14.0	1.6	10.4	140	2012	N	3			3							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2012	N	1			1							
Upbound	Domestic	4	764	1521	200.0	35.0	7	9.0	1.9	5.1	225	2012	N	1			1							
Upbound	Domestic	4	706	1507	200.0	35.0	7	9.0	1.9	5.1	215	2012	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2012		1			1							
Upbound	Domestic	5	002099	5853	356.0	54.0	2	22.1	2.0	0.0	310	2012		2									2	
Upbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	160	2012	N	1							1			
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	130	2012	N	1							1			
Upbound	Domestic	4	688	1677	200.0	35.0	2	9.0	1.5	0.5	210	2012	N	1							1			
Upbound	Domestic	5	001616	5304	297.0	54.0	2	12.0	2.0	0.0	260	2012		1									1	
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2012		9			9							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2012	N	37			37							
Upbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2012	N	1			1							
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2012	N	10			10							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2012		1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2012	N	1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	8	10.0	1.7	6.3	163	2012	N	1			1							
Upbound	Domestic	4	000823	2304	200.0	35.0	8	12.0	1.5	6.5	180	2012	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2012	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	7	9.0	1.9	5.1	205	2012	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2012	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2012	N	1			1							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	10.0	2.0	0.0	180	2012		6									6	
Upbound	Domestic	5	1754	4253	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	2									2	
Upbound	Domestic	5	001754	4150	297.0	54.0	1	11.0	0.6	0.4	280	2012		1									1	
Upbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	200	2012	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2012		3			3							
Upbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2012	N	2			2							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2012		3			3							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2012	N	2			2							
Upbound	Domestic	5	812	1388	195.0	35.0	8	9.0	2.1	5.9	140	2012	N	3					3					
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.2	6.8	217	2012	N	1			1							
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2012		4									4	
Upbound	Domestic	3	119	999999	76.0	28.0	9	10.5	9.0	0.0	400	2012	N	1		1								
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2012		8									8	
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2012	N	5							5			
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2012		3		3								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2012		1									1	
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2012		2									2	
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2012	N	2							2			
Upbound	Domestic	5	000891	1591	200.0	35.0	8	9.0	1.9	6.1	142	2012	N	1					1					
Upbound	Domestic	4	000764	1611	200.0	35.0	11	9.0	3.0	8.0	9999	2012	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	8	10.0	3.0	5.0	9999	2012	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2012	N	3			3							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2012	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	9	9.0	1.7	7.3	215	2012	N	1			1							
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2012	N	1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	9	11.0	1.5	7.5	200	2012	N	2			2							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2012	N	2			2							
Upbound	Domestic	5	001619	3891	297.5	54.0	2	10.5	1.5	0.5	175	2012		11									11	
Upbound	Domestic	4	862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2012	N	1							1			
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2012		2									2	
Upbound	Domestic	5	001619	3500	297.6	54.0	2	9.0	1.0	1.0	220	2012		1									1	
Upbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2012	N	1							1			
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2012	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	7	9.0	1.6	5.4	154	2012	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2012	N	5			5							
Upbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2012	N	1			1							
Upbound	Domestic	4	687	1574	195.0	35.0	4	9.0	1.3	2.7	145	2012	N	1			1							
Upbound	Domestic	5	795	1475	195.0	35.0	8	9.0	1.8	6.2	178	2012	N	2					2					
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2012	N	1			1							
Upbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2012	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	13	12.0	1.5	11.5	215	2012	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	10	11.0	1.5	8.5	199	2012	N	1			1							
Upbound	Domestic	4	345	1450	195.0	35.0	2	10.5	2.0	0.0	120	2012	N	1							1			
Upbound	Domestic	3	166	999999	95.0	28.0	7	7.0	6.5	0.5	400	2012		1		1								
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2012	N	4			4							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	12.0	2.0	9.0	208	2012	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2012		3			3							
Upbound	Domestic	4	000764	1561	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	11.0	2.0	6.0	9999	2012	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	9	9.0	1.8	7.2	205	2012	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	1020	1854	200.0	35.0	8	10.0	1.6	6.4	167	2012		1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	155	2012		1			1							
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2012		22		22								
Upbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2012	N	1							1			
Upbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2012		4		4								
Upbound	Domestic	4	000764	1635	200.0	35.0	2	9.0	1.4	0.6	215	2012	N	1							1			
Upbound	Domestic	5	860	1800	195.0	35.0	9	10.7	2.0	7.0	150	2012		2					2					
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2012	N	20			20							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2012		1			1							
Upbound	Domestic	4	000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2012	N	1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2012		9			9							
Upbound	Domestic	4	000745	1705	195.0	35.0	10	10.0	1.6	8.4	139	2012	N	5			5							
Upbound	Domestic	4	764	1517	200.0	35.0	7	9.0	1.9	5.1	225	2012	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2012		3			3							
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2012		26		26								
Upbound	Domestic	3	000169	999999	88.9	30.0	9	9.0	9.0	0.0	428	2012		13		13								
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2012	N	1			1							
Upbound	Domestic	4	764	1557	200.0	35.0	9	9.0	1.5	7.5	135	2012	N	2			2							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	2			2							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	5			5							
Upbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2012	N	2			2							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2012	N	5			5							
Upbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2012	N	2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2012	N	2			2							
Upbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2012	N	2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2012	N	2			2							
Upbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2012	N	10			10							
Upbound	Domestic	4	705	1653	200.0	35.0	9	9.0	1.5	7.5	218	2012	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2012	N	3			3							
Upbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2012	N	1			1							
Upbound	Domestic	5	001455	3200	295.0	54.0	2	10.0	2.0	0.0	170	2012		4									4	
Upbound	Domestic	5	1106	1800	175.0	54.0	2	10.0	2.0	0.0	170	2012		7									7	
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2012		2		2								
Upbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2012	N	1							1			
Upbound	Domestic	3	79	999999	95.0	30.0	8	10.5	8.0	0.0	490	2012	N	2		2								
Upbound	Domestic	4	764	1666	200.0	35.0	2	9.0	1.5	0.5	170	2012	N	1							1			
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	206	2012		2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2012	N	2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2012	N	1			1							
Upbound	Domestic	5	788	1481	195.0	35.0	9	9.2	2.5	6.5	186	2012	N	1					1					
Upbound	Domestic	4	764	1744	200.0	35.0	9	10.0	1.7	7.3	209	2012	N	2			2							
Upbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2012	N	1			1							
Upbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2012	N	2			2							
Upbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2012		6									6	
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2012	N	20			20							
Upbound	Domestic	5	1754	4240	297.5	54.0	9	11.0	1.5	7.5	200	2012	N	1					1					
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2012		5			5							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2012		1			1							
Upbound	Domestic	4	000764	1560	200.0	35.0	10	9.0	3.0	7.0	9999	2012	N	1			1							
Upbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2012	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2012	N	2			2							
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2012		1									1	
Upbound	Domestic	4	000764	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2012	N	4							4			
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2012	N	2			2							
Upbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2012	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2012	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	10	12.0	1.5	8.5	208	2012	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	5	9.0	1.5	3.5	189	2012	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	7	9.0	1.5	5.5	165	2012	N	1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2012	N	8			8							
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2012	N	1			1							
Upbound	Domestic	4	688	2142	195.0	35.0	7	11.0	1.5	5.5	160	2012	N	2			2							
Upbound	Domestic	4	000764	1850	200.0	35.0	9	10.0	1.5	7.5	191	2012	N	1			1							
Upbound	Domestic	5	1754	3665	297.5	54.0	2	12.0	2.0	0.0	180	2012		1									1	
Upbound	Domestic	4	764	2187	200.0	35.0	8	11.0	1.7	6.3	240	2012	N	1			1							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2012	N	4			4							
Upbound	Domestic	4	799	1893	200.0	35.0	8	10.0	1.5	6.5	149	2012	N	1			1							
Upbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2012	N	1			1							
Upbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2012	N	1			1							
Upbound	Domestic	4	500	1450	195.0	35.0	11	10.6	2.0	9.0	120	2012	N	1			1							
Upbound	Domestic	4	823	1843	200.0	35.0	8	13.0	1.6	6.4	230	2012	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	2.0	7.0	170	2012	N	1			1							
Upbound	Domestic	4	000782	1990	200.0	35.0	9	9.0	1.5	7.5	170	2012	N	1			1							
Upbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2012		1			1							
Upbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2012		23		23								
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2012		5									5	
Upbound	Domestic	5	773	1600	195.0	35.0	2	9.5	1.8	0.2	186	2012		2									2	
Upbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2012	N	1							1			
Upbound	Domestic	5	001633	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2012	N	2									2	
Upbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2012	N	3							3			
Upbound	Domestic	5	001616	5304	297.0	54.0	2	12.0	2.0	0.0	450	2012		1									1	
Upbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2012	N	4			4							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2012		6			6							
Upbound	Domestic	4	705	1648	200.0	35.0	10	12.0	1.5	8.5	186	2012	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2012	N	3			3							
Upbound	Domestic	5	833	1309	195.0	35.0	9	8.6	2.0	7.0	172	2012	N	2					2					
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2012	N	7			7							
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2012	N	5			5							
Upbound	Domestic	5	723	1481	195.0	35.0	9	9.2	2.5	6.5	186	2012	N	1					1					
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2012	N	1			1							
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2012		3			3							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	1			1							
Upbound	Domestic	4	000823	2058	200.0	35.0	10	14.0	2.0	8.0	9999	2012	N	1			1							
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2012		4									4	
Upbound	Domestic	5	001841	3200	290.0	54.0	2	10.0	2.0	0.0	220	2012		2									2	
Upbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2012	N	1							1			
Upbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.6	0.4	191	2012	N	1							1			
Upbound	Domestic	3	000466	686	140.0	38.0	8	11.0	8.0	0.0	490	2012		1		1								
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2012	N	7			7							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2012	N	2			2							
Upbound	Domestic	4	000823	1677	200.0	35.0	8	9.0	1.4	6.6	190	2012	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2012	N	5			5							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2012		2			2							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2012	N	3			3							
Upbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2012	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2012	N	3			3							
Upbound	Domestic	4	000764	2468	200.0	35.0	4	13.0	1.5	2.5	208	2012	N	1			1							
Upbound	Domestic	4	000705	1612	200.0	35.0	8	9.0	1.6	6.4	205	2012	N	1			1							
Upbound	Domestic	5	837	1600	195.0	35.0	8	10.0	1.8	6.2	160	2012		1					1					
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2012	N	2			2							
Upbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2012	N	1			1							
Upbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2012		1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.5	6.5	217	2012	N	1			1							
Upbound	Domestic	5	001632	3000	300.0	54.0	2	12.0	2.0	0.0	226	2012	N	1									1	
Upbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2012	N	2			2							
Upbound	Domestic	4	856	2312	200.0	35.0	7	12.0	1.5	5.5	217	2012	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2012	N	8			8							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2012	N	7			7							
Upbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2012	N	1			1							
Upbound	Domestic	5	886	1489	195.0	35.0	9	9.0	1.3	7.7	164	2012	N	1					1					
Upbound	Domestic	4	764	1548	200.0	35.0	9	9.0	1.7	7.3	212	2012	N	2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	6	12.0	1.5	4.5	199	2012	N	1			1							
Upbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	2			2							
Upbound	Domestic	4	802	2110	195.0	35.0	7	12.0	1.8	5.2	234	2012		1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2012	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	208	2012	N	1			1							
Upbound	Domestic	5	1634	4400	264.0	54.0	2	12.0	1.5	0.5	200	2012		1									1	
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2012		9			9							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2012		5			5							
Upbound	Domestic	4	743	2316	200.0	35.0	7	10.0	1.3	5.7	186	2012		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2012		1			1							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2012	N	3			3							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2012	N	22			22							
Upbound	Domestic	5	886	1489	195.0	35.0	7	9.0	1.3	5.7	164	2012	N	1					1					
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2012	N	7			7							
Upbound	Domestic	4	705	2002	200.0	35.0	7	9.0	1.5	5.5	190	2012	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2012	N	2			2							
Upbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2012	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2012	N	14			14							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2012	N	28			28							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2012	N	7			7							
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2012		1			1							
Upbound	Domestic	4	834	1701	195.1	35.0	8	10.0	1.7	6.3	210	2012	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2012	N	2			2							
Upbound	Domestic	4	1072	1870	200.0	35.0	8	10.0	1.5	6.5	169	2012		1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2012	N	8			8							
Upbound	Domestic	4	764	1662	200.0	35.0	8	9.0	1.5	6.5	210	2012	N	1			1							
Upbound	Domestic	4	862	1725	195.0	35.0	9	10.0	2.0	7.0	192	2012	N	2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2012	N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2012		6			6							
Upbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2012	N	2							2			
Upbound	Domestic	5	002099	5853	356.0	54.0	2	13.0	2.0	0.0	310	2012		2									2	
Upbound	Domestic	5	1876	3400	297.5	54.0	2	10.0	2.0	0.0	170	2012		2									2	
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2012		2									2	
Upbound	Domestic	5	1455	3200	290.0	54.0	2	10.0	2.0	0.0	170	2012		3									3	
Upbound	Domestic	3	000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2012		2		2								
Upbound	Domestic	3	200	999999	95.0	30.0	7	8.5	7.0	0.0	300	2012	N	1		1								
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2012		1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2012	N	3			3							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2012	N	10			10							
Upbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2012	N	2			2							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2012	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2012	N	4			4							
Upbound	Domestic	5	716	1400	195.0	35.0	8	9.5	1.8	6.2	170	2012		1					1					
Upbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2012	N	2			2							
Upbound	Domestic	4	688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2012	N	1			1							
Upbound	Domestic	4	823	2732	200.0	35.0	8	14.0	2.0	6.0	191	2012	N	1			1							
Upbound	Domestic	5	3084	2874	298.0	54.0	4	8.6	4.0	0.0	260	2012		1									1	
Upbound	Domestic	3	27	999999	50.0	22.0	6	5.5	4.0	2.0	270	2012		1		1								
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2012	N	4			4							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	165	2012		3			3							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2012	N	4			4							
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2012	N	6			6							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2012		1			1							
Upbound	Domestic	4	000764	1865	200.0	35.0	8	10.0	1.5	6.5	139	2012	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2012	N	2			2							
Upbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2012	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2012	N	5			5							
Upbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2012	N	1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2012	N	1			1							
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2012	N	3									3	
Upbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2012		1									1	
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2012		6			6							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	120	2012	N	2			2							
Upbound	Domestic	4	764	1865	200.0	35.0	9	11.0	1.5	7.5	208	2012	N	1			1							
Upbound	Domestic	4	764	2200	200.0	35.0	5	8.0	2.0	3.0	165	2012		1			1							
Upbound	Domestic	4	000764	1605	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2012	N	1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	7	9.0	1.5	5.5	225	2012	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2012	N	3			3							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	10.0	2.0	7.0	9999	2012	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2012		3			3							
Upbound	Domestic	4	675	1506	195.0	35.0	7	9.0	1.5	5.5	155	2012	N	1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	180	2012		1			1							
Upbound	Domestic	5	2223	3400	297.5	54.0	2	10.0	2.0	0.0	180	2012		5									5	
Upbound	Domestic	5	1892	3000	297.0	54.0	2	8.5	2.0	0.0	100	2012		3									3	
Upbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2012	N	3							3			
Upbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2012	N	1							1			
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2012		21			21							
Upbound	Domestic	4	000764	1592	200.0	35.0	9	9.0	2.0	7.0	9999	2012	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2012	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2012	N	7			7							
Upbound	Domestic	4	000764	1869	200.0	35.0	7	10.0	1.7	5.3	191	2012	N	2			2							
Upbound	Domestic	4	862	1539	195.0	35.0	7	9.0	1.5	5.5	192	2012	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2012	N	2			2							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	1.6	6.4	220	2012	N	2			2							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2012	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2012	N	1			1							
Upbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2012	N	2			2							
Upbound	Domestic	4	000764	1633	200.0	35.0	11	9.0	1.6	9.4	225	2012	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	7	9.0	1.8	5.2	225	2012	N	1			1							
Upbound	Domestic	4	000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2012		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2012	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	12.0	1.8	6.2	170	2012		1			1							
Upbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2012		14		14								
Upbound	Domestic	5	1659	2500	295.0	54.0	2	9.0	2.0	0.0	90	2012		1									1	
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2012		2		2								
Upbound	Domestic	4	933	1527	195.0	35.0	2	11.0	1.5	0.5	199	2012	N	1							1			
Upbound	Domestic	5	001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2012		1									1	
Upbound	Domestic	4	345	1450	195.0	35.0	2	10.6	2.0	0.0	120	2012	N	1							1			
Upbound	Domestic	5	716	1400	195.0	35.0	2	9.5	1.8	0.2	170	2012		1									1	
Upbound	Domestic	3	000038	999999	50.0	22.0	6	7.0	6.0	0.0	300	2012	N	1		1								
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2012	N	9			9							
Upbound	Domestic	4	000705	1650	200.0	35.0	8	12.0	1.5	6.5	208	2012	N	4			4							
Upbound	Domestic	5	001619	3444	297.0	54.0	9	10.0	0.6	8.4	280	2012		1					1					
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2012	N	2			2							
Upbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2012	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2012	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2012	N	2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2012	N	1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2012	N	2			2							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2012	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2012	N	2			2							
Upbound	Domestic	4	000823	2739	200.0	35.0	11	14.0	1.6	9.4	140	2012	N	1			1							
Upbound	Domestic	5	1634	2900	264.0	54.0	2	10.0	2.0	0.0	180	2012		3									3	
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2012		21		21								
Upbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2012		35		35								
Upbound	Domestic	5	001754	4400	297.0	54.0	1	11.0	0.6	0.4	280	2012		1									1	
Upbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2012	N	1							1			
Upbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2012		1			1							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2012	N	3			3							
Upbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2012	N	2			2							
Upbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	148	2012	N	1			1							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2012	N	1			1							
Upbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2012	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	7	10.0	1.4	5.6	190	2012	N	1			1							
Upbound	Domestic	4	676	1725	195.0	35.0	8	10.0	1.6	6.4	200	2012		1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2012		1			1							
Upbound	Domestic	5	2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2012		1									1	
Upbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2012	N	1							1			
Upbound	Domestic	5	001632	3526	300.0	54.0	2	10.0	2.3	-0.3	189	2012	N	2									2	
Upbound	Domestic	5	001619	4048	297.5	54.0	3	12.0	3.0	0.0	250	2012		10									10	
Upbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2012	N	1							1			
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2012	N	16			16							
Upbound	Domestic	4	706	1600	200.0	35.0	4	9.0	1.4	2.6	155	2012	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2012	N	1			1							
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2012	N	1					1					
Upbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2012	N	1			1							
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2012		3			3							
Upbound	Domestic	4	856	1856	200.0	35.0	7	10.0	1.6	5.4	210	2012	N	1			1							
Upbound	Domestic	5	761	1400	195.0	35.0	9	9.0	1.8	7.2	183	2012	N	1					1					
Upbound	Domestic	4	000764	1572	200.0	35.0	12	9.0	2.0	10.0	9999	2012	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	10	12.0	1.5	8.5	199	2012	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2012		2			2							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2012	N	1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2012		10			10							
Upbound	Domestic	4	000823	1536	200.0	35.0	8	9.0	1.7	6.3	140	2012		1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2012	N	4			4							
Upbound	Domestic	4	000823	1635	200.0	35.0	5	9.0	1.5	3.5	175	2012	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2012		4			4							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	3			3							
Upbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2012	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2012	N	2			2							
Upbound	Domestic	4	823	1800	200.0	35.0	11	10.0	1.5	9.5	180	2012	N	1			1							
Upbound	Domestic	5	1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2012		4									4	
Upbound	Domestic	5	001754	4444	297.5	54.0	2	11.0	2.0	0.0	200	2012	N	2									2	
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2012		2									2	
Upbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2012	N	2							2			
Upbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2012	N	1							1			
Upbound	Domestic	3	000250	999999	84.9	30.0	5	8.5	5.0	0.0	470	2012	N	2		2								
Upbound	Domestic	5	000677	2234	192.0	42.0	2	11.0	2.0	0.0	150	2012	N	1									1	
Upbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2012	N	1							1			
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2012		2			2							
Upbound	Domestic	4	000764	2488	200.0	35.0	8	12.0	1.6	6.4	9999	2012	N	1			1							
Upbound	Domestic	4	000764	1514	200.0	35.0	9	9.0	1.8	7.2	190	2012	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2012	N	9			9							
Upbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2012	N	6			6							
Upbound	Domestic	4	705	1877	200.0	35.0	8	10.0	1.4	6.6	146	2012	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	2	9.0	1.5	0.5	160	2012	N	2							2			
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2012		1			1							
Upbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2012	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	140	2012		1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	10	11.0	1.5	8.5	215	2012	N	1			1							
Upbound	Domestic	4	901	1450	195.0	35.0	8	9.0	1.5	6.5	190	2012	N	1			1							
Upbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2012		2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2012	N	1			1							
Upbound	Domestic	4	000764	1560	200.0	35.0	11	9.0	3.0	8.0	9999	2012	N	3			3							
Upbound	Domestic	5	001619	3142	297.0	54.0	9	10.0	0.6	8.4	280	2012		1					1					
Upbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2012	N	1			1							
Upbound	Domestic	4	908	1654	200.0	35.0	8	9.0	1.4	6.6	204	2012	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	7	9.0	1.8	5.2	205	2012	N	1			1							
Upbound	Domestic	4	907	1733	195.0	35.0	8	10.0	1.6	6.4	200	2012		1			1							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2012	N	6			6							
Upbound	Domestic	5	1754	4528	297.5	54.0	8	11.0	1.5	6.5	200	2012	N	1					1					
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2012	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2012	N	15			15							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2012		9			9							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2012		5			5							
Upbound	Domestic	4	000764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2012	N	1			1							
Upbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2012	N	2			2							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2012	N	3			3							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2012	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2012	N	1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2012	N	1			1							
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2012		7		7								
Upbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2012	N	2							2			
Upbound	Domestic	4	705	1648	200.0	35.0	2	12.0	1.5	0.5	186	2012	N	2							2			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2012	N	13			13							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2012		1			1							
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2012	N	2			2							
Upbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2012	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	11.0	2.0	7.0	165	2012		1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	9	9.0	2.0	7.0	215	2012	N	1			1							
Upbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.6	7.4	149	2012	N	1			1							
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2012		7									7	
Upbound	Domestic	4	764	1619	200.0	35.0	2	9.0	1.3	0.7	165	2012	N	1							1			
Upbound	Domestic	4	681	1450	195.0	35.0	8	9.0	2.0	6.0	190	2012	N	1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2012	N	3			3							
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2012	N	9					9					
Upbound	Domestic	5	812	1432	195.0	35.0	8	9.0	1.1	6.9	142	2012	N	6					6					
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2012	N	23							23			
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2012	N	2			2							
Upbound	Domestic	4	764	1555	200.0	35.0	8	9.0	1.5	6.5	170	2012	N	1			1							
Upbound	Domestic	5	000825	1422	195.0	35.0	8	9.0	1.1	6.9	194	2012	N	4					4					
Upbound	Domestic	4	688	1662	200.0	35.0	8	9.0	1.5	6.5	210	2012	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2012		1			1							
Upbound	Domestic	5	1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2012		8									8	
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2012		4									4	
Upbound	Domestic	5	1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2012		3									3	
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2012		4									4	
Upbound	Domestic	5	001619	3360	297.0	54.0	1	10.0	0.6	0.4	280	2012		1									1	
Upbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2012	N	1							1			
Upbound	Domestic	3	000067	999999	68.9	30.0	10	10.0	10.0	0.0	440	2012		10		10								
Upbound	Domestic	4	000802	1705	195.0	35.0	2	10.0	1.5	0.5	140	2012	N	1							1			
Upbound	Domestic	4	823	2398	200.0	35.0	2	13.0	2.0	0.0	165	2012	N	2							2			
Upbound	Domestic	4	000764	1648	200.0	35.0	11	13.0	1.5	9.5	208	2012	N	3			3							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2012	N	7			7							
Upbound	Domestic	4	834	1701	195.0	35.0	6	10.0	1.7	4.3	210	2012	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2012	N	1			1							
Upbound	Domestic		4 000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2012	N	14			14							
Upbound	Domestic		4 000764	1541	200.0	35.0	7	9.0	1.6	5.4	143	2012	N	1			1							
Upbound	Domestic		4 862	1736	195.0	35.0	8	10.0	1.5	6.5	192	2012	N	2			2							
Upbound	Domestic		4 823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2012		1			1							
Upbound	Domestic		4 000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2012	N	4			4							
Upbound	Domestic		4 823	1662	200.0	35.0	7	9.0	1.4	5.6	235	2012	N	1			1							
Upbound	Domestic		4 000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2012		1			1							
Upbound	Domestic		4 916	1000	198.0	46.0	13	12.5	2.0	11.0	530	2012	N	1			1							
Upbound	Domestic		4 000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2012	N	1			1							
Upbound	Domestic		5 1861	5250	356.0	54.0	2	13.0	2.0	0.0	220	2012		7									7	
Upbound	Domestic		4 764	1552	200.0	35.0	2	9.0	1.5	0.5	163	2012	N	1							1			
Upbound	Domestic		5 1619	3390	297.5	54.0	2	11.0	2.0	0.0	120	2012		1									1	
Upbound	Domestic		4 000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2012	N	1							1			
Upbound	Domestic		4 705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2012	N	4							4			
Upbound	Domestic		4 764	2292	200.0	35.0	8	12.0	1.5	6.5	170	2012	N	1			1							
Upbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2012		9			9							
Upbound	Domestic		4 000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2012	N	2			2							
Upbound	Domestic		4 000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2012		2			2							
Upbound	Domestic		4 687	1723	195.0	35.0	7	10.0	1.6	5.4	207	2012		1			1							
Upbound	Domestic		4 000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2012	N	4			4							
Upbound	Domestic		4 706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2012	N	1			1							
Upbound	Domestic		5 1754	4253	297.5	54.0	9	11.0	1.5	7.5	200	2012	N	1					1					
Upbound	Domestic		4 000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2012	N	5			5							
Upbound	Domestic		4 705	1644	200.0	35.0	9	9.0	1.5	7.5	140	2012	N	1			1							
Upbound	Domestic		4 705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2012	N	2			2							
Upbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2012		2			2							
Upbound	Domestic		3 000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2012		27		27								
Upbound	Domestic		3 000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2012		26		26								
Upbound	Domestic		3 157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2012		7		7								
Upbound	Domestic		5 1754	4566	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	1									1	
Upbound	Domestic		5 1754	42440	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	1									1	
Upbound	Domestic		4 000705	1659	200.0	35.0	2	9.0	1.4	0.6	205	2012	N	1							1			
Upbound	Domestic		4 000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2012		11			11							
Upbound	Domestic		4 823	2733	200.0	35.0	5	14.0	1.6	3.4	211	2012	N	1			1							
Upbound	Domestic		4 764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	3			3							
Upbound	Domestic		4 764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2012	N	4			4							
Upbound	Domestic		4 764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2012	N	7			7							
Upbound	Domestic		4 564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2012	N	3			3							
Upbound	Domestic		4 000764	1610	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1			1							
Upbound	Domestic		5 886	1489	195.0	35.0	8	9.0	1.3	6.7	164	2012	N	1					1					
Upbound	Domestic		4 705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2012	N	1			1							
Upbound	Domestic		4 000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2012		1			1							
Upbound	Domestic		4 711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2012		2			2							
Upbound	Domestic		4 000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2012	N	1			1							
Upbound	Domestic		3 232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2012		30		30								
Upbound	Domestic		3 390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2012		21		21								
Upbound	Domestic		4 000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2012	N	1							1			
Upbound	Domestic		4 000764	1653	200.0	35.0	2	9.0	2.0	0.0	210	2012	N	1							1			
Upbound	Domestic		5 750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2012	N	2									2	
Upbound	Domestic		4 764	2528	200.0	35.0	2	13.0	1.5	0.5	155	2012	N	4							4			
Upbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2012	N	6			6							
Upbound	Domestic		4 000764	1750	200.0	35.0	6	10.0	1.5	4.5	191	2012	N	1			1							
Upbound	Domestic		4 000764	1750	200.0	35.0	7	10.0	1.5	5.5	191	2012	N	1			1							
Upbound	Domestic		5 000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2012	N	4					4					
Upbound	Domestic		4 764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2012	N	4			4							
Upbound	Domestic		4 745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2012	N	2			2							
Upbound	Domestic		4 345	1450	195.0	35.0	9	9.0	1.5	7.5	105	2012	N	2			2							
Upbound	Domestic		4 823	2733	200.0	35.0	8	14.0	1.5	6.5	241	2012	N	1			1							
Upbound	Domestic		4 000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2012	N	1			1							
Upbound	Domestic		3 533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2012		5		5								
Upbound	Domestic		5 1697	1800	296.7	54.0	2	9.0	1.6	0.4	90	2012		2									2	
Upbound	Domestic		3 000133	444	110.0	32.0	11	10.3	8.6	2.4	456	2012		1		1								
Upbound	Domestic		5 001632	3608	300.0	54.0	2	10.0	1.8	0.2	226	2012	N	1									1	
Upbound	Domestic		4 823	2100	200.0	35.0	2	12.0	1.6	0.4	165	2012	N	1							1			
Upbound	Domestic		4 000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2012	N	3			3							
Upbound	Domestic		4 000329	1500	140.0	40.0	2	3.0	2.0	0.0	70	2012	N	1							1			
Upbound	Domestic		4 000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2012	N	20							20			
Upbound	Domestic		4 000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2012	N	1			1							
Upbound	Domestic		4 764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2012		2			2							
Upbound	Domestic		4 933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2012	N	2			2							
Upbound	Domestic		4 705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2012	N	3			3							
Upbound	Domestic		4 770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2012	N	3			3							
Upbound	Domestic		4 311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2012	N	1			1							
Upbound	Domestic		4 000764	1677	200.0	35.0	5	9.0	1.4	3.6	165	2012		1			1							
Upbound	Domestic		4 802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2012		1			1							
Upbound	Domestic		4 705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2012	N	1			1							
Upbound	Domestic		4 000719	1553	200.0	35.0	7	9.0	2.0	5.0	130	2012		1			1							
Upbound	Domestic		5 1816	5450	356.0	54.0	2	13.0	2.0	0.0	220	2012		7									7	
Upbound	Domestic		5 001619	1869	297.5	54.0	2	10.0	1.7	0.3	191	2012		3									3	
Upbound	Domestic		4 000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2012	N	1							1			
Upbound	Domestic		4 764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2012	N	1							1			
Upbound	Domestic		3 251	999999	95.3	32.1	8	8.6	7.6	0.4	405	2012		1		1								
Upbound	Domestic		4 000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2012	N	5			5							
Upbound	Domestic		4 000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2012	N	1			1							
Upbound	Domestic		5 001632	3000	300.0	54.0	8	12.0	2.0	6.0	189	2012	N	2					2					
Upbound	Domestic		4 000764	1578	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1			1							
Upbound	Domestic		4 764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2012	N	5			5							
Upbound	Domestic		4 933	1527	195.0	35.0	12	10.0	1.5	10.5	199	2012	N	1			1							
Upbound	Domestic		4 763	2290	195.0	35.0	8	12.0	1.7	6.3	235	2012	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2012	N	1			1							
Upbound	Domestic		4 000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2012		1			1							
Upbound	Domestic		4 000784	1800	200.0	35.0	6	9.0	2.0	4.0	130	2012	N	1			1							
Upbound	Domestic		4 705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2012	N	1			1							
Upbound	Domestic		5 001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2012		4									4	
Upbound	Domestic		5 1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2012		1									1	
Upbound	Domestic		3 000095	999999	76.0	34.0	7	11.0	11.0	-4.0	550	2012		4		4								
Upbound	Domestic		4 764	1647	200.0	35.0	2	9.0	1.2	0.8	165	2012	N	2							2			
Upbound	Domestic		4 000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2012	N	1							1			
Upbound	Domestic		4 764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2012	N	3							3			
Upbound	Domestic		4 764	1648	200.0	35.0	2	13.0	1.5	0.5	255	2012	N	3							3			
Upbound	Domestic		4 000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2012	N	2			2							
Upbound	Domestic		4 764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2012	N	1			1							
Upbound	Domestic		4 705	1674	200.0	35.0	9	9.0	1.4	7.6	205	2012		1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2012	N	3			3							
Upbound	Domestic		4 727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2012	N	5			5							
Upbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2012		1			1							
Upbound	Domestic		4 600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2012	N	1			1							
Upbound	Domestic		4 862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2012	N	2			2							
Upbound	Domestic		4 764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2012	N	1			1							
Upbound	Domestic		4 764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2012		2			2							
Upbound	Domestic		4 764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2012	N	5							5			
Upbound	Domestic		5 2482	2500	293.0	50.0	3	9.0	2.0	1.0	220	2012		1									1	
Upbound	Domestic		4 764	1608	200.0	35.0	2	9.0	1.5	0.5	225	2012	N	2							2			
Upbound	Domestic		5 001619	3142	297.0	54.0	1	10.0	0.6	0.4	280	2012		1									1	
Upbound	Domestic		4 823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2012	N	11			11							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	000784	1800	200.0	35.0	5	9.0	2.0	3.0	130	2012	N	1			1							
Upbound	Domestic	5	000835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2012	N	1					1					
Upbound	Domestic	5	773	1489	195.1	35.1	8	9.0	1.8	6.2	166	2012	N	2					2					
Upbound	Domestic	4	000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2012	N	2			2							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2012	N	2			2							
Upbound	Domestic	4	705	1559	200.0	35.0	8	9.0	1.5	6.5	150	2012	N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	10	10.0	2.0	8.0	110	2012		5			5							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2012		1			1							
Upbound	Domestic	3	000177	999999	85.8	32.0	9	9.0	9.0	0.0	416	2012		6		6								
Upbound	Domestic	5	001619	3517	297.0	54.0	1	10.0	0.6	0.4	280	2012		1									1	
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2012		2				2						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2012	N	3				3						
Downbound	Domestic	5	766	1500	200.0	35.0	9	9.0	2.0	7.0	170	2012	N	2						2				
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	3				3						
Downbound	Domestic	4	000764	1653	200.0	35.0	11	9.0	3.0	8.0	9999	2012	N	1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2012	N	1				1						
Downbound	Domestic	4	823	1800	200.0	35.0	12	10.0	1.5	10.5	180	2012	N	1				1						
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2012	N	2								2		
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2012	N	6								6		
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2012		7		7								
Downbound	Domestic	3	000199	293	87.0	28.0	7	8.5	7.0	0.0	420	2012		1		1								
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2012		4								4		
Downbound	Domestic	4	000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2012	N	12								12		
Downbound	Domestic	3	232	999999	110.0	32.0	7	8.6	7.5	-0.5	350	2012		1		1								
Downbound	Domestic	5	766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2012	N	1										1
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2012	N	4				4						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2012	N	18				18						
Downbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2012	N	4				4						
Downbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2012	N	1				1						
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2012	N	3				3						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	130	2012	N	1				1						
Downbound	Domestic	4	705	1647	200.0	35.0	8	9.0	1.4	6.6	205	2012	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2012		10								10		
Downbound	Domestic	4	000687	2061	195.0	35.0	2	12.0	1.6	0.4	9999	2012	N	3								3		
Downbound	Domestic	4	763	2290	200.0	35.0	2	12.0	1.6	0.4	236	2012	N	1								1		
Downbound	Domestic	5	1961	3500	297.5	54.0	10	8.5	2.0	8.0	100	2012		7						7				
Downbound	Domestic	5	001619	3891	297.5	54.0	10	10.5	1.5	8.5	175	2012		12						12				
Downbound	Domestic	4	745	2077	195.0	35.0	9	9.0	1.5	7.5	215	2012	N	2				2						
Downbound	Domestic	5	1892	3000	297.0	54.0	10	8.5	2.0	8.0	100	2012		3						3				
Downbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2012	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	10	10.0	1.6	8.4	149	2012	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2012		1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2012	N	1				1						
Downbound	Domestic	5	860	1800	195.0	35.0	2	10.7	2.0	0.0	150	2012		2										2
Downbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2012		1								1		
Downbound	Domestic	4	764	1695	200.0	35.0	2	9.0	1.2	0.8	155	2012	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2012		1								1		
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2012	N	1				1						
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2012		6						6				
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2012		5						5				
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2012		9				9						
Downbound	Domestic	5	1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2012		7						7				
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2012	N	6				6						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.5	6.5	250	2012	N	1				1						
Downbound	Domestic	5	1816	5450	356.0	54.0	11	13.0	2.0	9.0	220	2012		7						7				
Downbound	Domestic	4	000784	1800	200.0	35.0	8	9.0	2.0	6.0	130	2012	N	3				3						
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2012		6				6						
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2012		4				4						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2012	N	2				2						
Downbound	Domestic	5	1754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2012		1						1				
Downbound	Domestic	4	705	1559	200.0	35.0	9	9.0	1.5	7.5	150	2012	N	2				2						
Downbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2012	N	1				1						
Downbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	170	2012	N	2				2						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2012		4				4						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2012		1				1						
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2012	N	3								3		
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2012		13		13								
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2012	N	1										1
Downbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2012		2		2								
Downbound	Domestic	4	000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2012	N	1								1		
Downbound	Domestic	5	837	1600	195.0	35.0	2	10.0	1.8	0.2	160	2012		2										2
Downbound	Domestic	5	001841	3200	290.0	54.0	10	10.0	2.0	8.0	220	2012		2						2				
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2012		9				9						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2012	N	13				13						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2012	N	3				3						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2012	N	4				4						
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2012		4				4						
Downbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2012	N	1				1						
Downbound	Domestic	4	834	1701	195.1	35.0	9	10.0	1.7	7.3	210	2012	N	1				1						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2012	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	186	2012	N	2				2						
Downbound	Domestic	5	001619	3891	297.5	54.0	7	10.5	1.5	5.5	175	2012		1						1				
Downbound	Domestic	4	764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2012	N	2				2						
Downbound	Domestic	5	2099	5067	356.0	54.0	8	11.0	0.6	7.4	280	2012		1						1				
Downbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	163	2012	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2012	N	1				1						
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.7	0.3	235	2012	N	1								1		
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2012		3		3								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2012	N	8								8		
Downbound	Domestic	4	687	1577	195.0	35.0	2	9.0	1.8	0.2	169	2012	N	1								1		
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2012	N	1								1		
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2012		4						4				
Downbound	Domestic	4	823	2469	200.0	35.0	8	14.0	2.0	6.0	191	2012	N	1				1						
Downbound	Domestic	5	1697	1800	296.7	54.0	9	9.0	1.6	7.4	90	2012		2						2				
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2012		1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2012	N	14				14						
Downbound	Domestic	4	705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2012	N	1				1						
Downbound	Domestic	4	000764	1615	200.0	35.0	9	11.0	1.8	7.2	170	2012		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2012	N	2				2						
Downbound	Domestic	4	1020	1656	200.0	35.0	8	9.0	1.5	6.5	193	2012	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2012	N	3				3						
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	165	2012	N	1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2012	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2012	N	2				2						
Downbound	Domestic	5	001619	4048	297.5	54.0	11	12.0	3.0	8.0	250	2012		7						7				
Downbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2012	N	1				1						
Downbound	Domestic	4	001051	1600	200.0	35.0	10	10.0	3.0	7.0	9999	2012	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2012		2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2012	N	1				1						
Downbound	Domestic	4	764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2012	N	1				1						
Downbound	Domestic	4	743	2316	200.0	35.0	2	10.0	1.3	0.7	186	2012		1								1		
Downbound	Domestic	4	771	1541	200.0	35.0	2	9.0	1.6	0.4	212	2012	N	1								1		
Downbound	Domestic	3	000212	999999	94.5	35.0	10	10.0	10.0	0.0	460	2012		1		1								
Downbound	Domestic	4	908	1654	200.0	35.0	2	9.0	1.4	0.6	204	2012	N	1								1		
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2012	N	4				4						
Downbound	Domestic	5	3084	2874	298.0	54.0	9	8.6	4.0	5.0	260	2012		1						1				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2012	1						1				
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2012 N	3				3						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2012 N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2012 N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2012 N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2012 N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	3.0	5.0	9999	2012 N	2				2						
Downbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2012 N	2				2						
Downbound	Domestic	5	750	1490	195.0	35.0	9	9.0	2.0	7.0	170	2012 N	2						2				
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2012 N	2				2						
Downbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	180	2012	1				1						
Downbound	Domestic	4	783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2012 N	1								1		
Downbound	Domestic	3	349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2012	2		2								
Downbound	Domestic	4	000764	1935	200.0	35.0	6	11.0	1.8	4.2	9999	2012 N	1				1						
Downbound	Domestic	5	001151	3275	175.0	54.0	9	9.0	1.5	7.5	164	2012	8						8				
Downbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2012 N	5				5						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	192	2012 N	1				1						
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2012	2				2						
Downbound	Domestic	4	531	1530	200.0	35.0	9	9.0	1.5	7.5	217	2012 N	2				2						
Downbound	Domestic	4	862	1539	195.0	35.0	9	9.0	1.5	7.5	192	2012 N	2				2						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	149	2012 N	1				1						
Downbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2012 N	4				4						
Downbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2012 N	1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2012	1				1						
Downbound	Domestic	5	001754	4150	297.0	54.0	9	11.0	0.6	8.4	280	2012	1						1				
Downbound	Domestic	4	681	1450	195.0	35.0	2	9.0	2.0	0.0	190	2012 N	1								1		
Downbound	Domestic	5	833	1309	195.0	35.0	2	8.6	2.0	0.0	172	2012 N	2										2
Downbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2012 N	1								1		
Downbound	Domestic	4	000764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2012 N	1								1		
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2012 N	2				2						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2012 N	4				4						
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2012	5						5				
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2012	7				7						
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2012 N	1				1						
Downbound	Domestic	4	1072	1870	200.0	35.0	9	10.0	1.5	7.5	169	2012	1				1						
Downbound	Domestic	5	001619	3656	297.5	54.0	6	9.0	1.5	4.5	150	2012	2						2				
Downbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2012	2				2						
Downbound	Domestic	4	764	1555	200.0	35.0	9	9.0	1.5	7.5	170	2012 N	1				1						
Downbound	Domestic	4	000823	2410	200.0	35.0	10	14.0	1.5	8.5	120	2012 N	1				1						
Downbound	Domestic	4	764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2012 N	4				4						
Downbound	Domestic	4	764	1648	200.0	35.0	13	12.0	1.5	11.5	186	2012 N	1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2012 N	1								1		
Downbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	168	2012 N	1								1		
Downbound	Domestic	4	000764	1619	200.0	35.0	3	9.0	3.0	0.0	9999	2012 N	1								1		
Downbound	Domestic	3	189	999999	147.0	37.7	7	8.6	7.0	0.0	170	2012	1		1								
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2012 N	4				4						
Downbound	Domestic	4	190	500	110.0	30.0	7	6.6	1.6	5.4	70	2012 N	1				1						
Downbound	Domestic	5	1724	3300	297.6	54.1	11	10.0	2.0	9.0	180	2012	2						2				
Downbound	Domestic	5	1724	3300	297.6	54.1	10	10.0	2.0	8.0	180	2012	2						2				
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2012 N	3				3						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2012	1				1						
Downbound	Domestic	4	764	1662	200.0	35.0	9	9.0	1.5	7.5	210	2012 N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	8	9.0	1.5	6.5	199	2012 N	2				2						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2012 N	6				6						
Downbound	Domestic	5	914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2012	2						2				
Downbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2012 N	1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	8	14.0	1.6	6.4	211	2012 N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2012	3				3						
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2012	3				3						
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2012 N	9										9
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2012 N	2										2
Downbound	Domestic	3	000433	637	136.0	40.0	8	10.3	8.6	-0.6	420	2012	1		1								
Downbound	Domestic	4	823	2750	200.0	35.0	2	14.0	1.5	0.5	215	2012 N	1								1		
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	139	2012 N	1								1		
Downbound	Domestic	5	1634	2900	264.0	54.0	10	10.0	2.0	8.0	180	2012	4						4				
Downbound	Domestic	5	001455	3200	295.0	54.0	9	10.0	2.0	7.0	170	2012	5						5				
Downbound	Domestic	4	764	1969	200.0	35.0	7	10.5	1.7	5.3	180	2012 N	1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2012 N	3				3						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2012 N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2012 N	9				9						
Downbound	Domestic	5	1632	4744	300.0	54.0	9	11.6	2.3	6.7	189	2012 N	1						1				
Downbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2012 N	1				1						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2012 N	2				2						
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2012	1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	9	9.0	1.5	7.5	225	2012 N	1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2012	1						1				
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2012	7		7								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2012 N	19								19		
Downbound	Domestic	4	000764	1568	200.0	35.0	2	9.0	1.6	0.4	204	2012 N	1								1		
Downbound	Domestic	4	698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2012 N	1								1		
Downbound	Domestic	5	1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2012	2						2				
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2012	2				2						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2012 N	3				3						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2012 N	5				5						
Downbound	Domestic	5	1876	3300	297.5	54.0	9	10.0	2.0	7.0	180	2012	6						6				
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2012 N	3				3						
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2012 N	13				13						
Downbound	Domestic	5	1455	3200	290.0	54.0	7	10.0	2.0	5.0	170	2012	0						0				
Downbound	Domestic	4	727	1500	200.0	35.0	2	9.0	1.6	0.4	190	2012 N	1								1		
Downbound	Domestic	3	000177	999999	85.8	32.0	7	7.0	7.0	0.0	416	2012	10		10								
Downbound	Domestic	3	000177	999999	85.8	32.0	8	10.0	8.0	0.0	480	2012	2		2								
Downbound	Domestic	4	687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2012 N	1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2012 N	2								2		
Downbound	Domestic	5	1619	3200	297.5	54.0	10	9.0	2.0	8.0	180	2012	8						8				
Downbound	Domestic	5	002099	5853	356.0	54.0	8	22.1	2.0	6.0	310	2012	2						2				
Downbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2012 N	2				2						
Downbound	Domestic	4	710	1654	200.0	35.0	9	9.0	1.5	7.5	147	2012 N	1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2012	3				3						
Downbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2012	15				15						
Downbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	216	2012 N	2				2						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2012 N	10				10						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2012	1				1						
Downbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2012 N	3				3						
Downbound	Domestic	4	745	1494	195.0	35.0	9	9.0	1.6	7.4	166	2012 N	1				1						
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2012	2				2						
Downbound	Domestic	4	901	1450	195.0	35.0	2	9.0	1.5	0.5	190	2012 N	1								1		
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2012 N	11				11						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2012	5				5						
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2012 N	3				3						
Downbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2012 N	1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2012 N	1				1						
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2012 N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	7	12.0	1.5	5.5	208	2012 N	2				2						
Downbound	Domestic	5	001632	4680	300.0	54.0	9	11.9	2.2	6.8	219	2012 N	1						1				
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2012 N	2				2						
Downbound	Domestic	4	000745	2292	195.0	35.0	2	15.0	3.0	-1.0	9999	2012 N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		5 000814	1447	195.0	35.0	2	9.0	1.9	0.1	170	2012	N	2										2
Downbound	Domestic		4 573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2012		57								57		
Downbound	Domestic		5 788	1439	195.0	35.0	2	9.0	2.0	0.0	165	2012	N	2										2
Downbound	Domestic		4 933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2012	N	3								3		
Downbound	Domestic		4 705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2012	N	1								1		
Downbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2012	N	7				7						
Downbound	Domestic		5 001619	3200	297.5	54.0	9	9.0	2.0	7.0	180	2012		7						7				
Downbound	Domestic		5 1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2012		14						14				
Downbound	Domestic		4 000764	2300	200.0	35.0	10	13.0	1.6	8.4	165	2012		3				3						
Downbound	Domestic		4 000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2012	N	2				2						
Downbound	Domestic		4 802	2110	195.0	35.0	8	12.0	1.8	6.2	234	2012		1				1						
Downbound	Domestic		4 705	2002	200.0	35.0	7	9.0	2.0	5.0	190	2012	N	1				1						
Downbound	Domestic		4 000764	2007	200.0	35.0	6	10.0	1.5	4.5	9999	2012	N	1				1						
Downbound	Domestic		4 764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2012	N	2				2						
Downbound	Domestic		5 000677	2234	192.0	42.0	6	11.0	2.0	4.0	150	2012	N	0						0				
Downbound	Domestic		4 000823	2739	200.0	35.0	14	14.0	1.5	12.5	250	2012		1				1						
Downbound	Domestic		5 1892	3000	297.0	54.0	8	8.5	2.0	6.0	100	2012		0						0				
Downbound	Domestic		4 764	2077	200.0	35.0	13	12.0	1.5	11.5	215	2012	N	1				1						
Downbound	Domestic		3 258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2012		14		14								
Downbound	Domestic		4 000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2012	N	1								1		
Downbound	Domestic		4 823	1542	200.0	35.0	2	9.0	1.6	0.4	225	2012	N	1								1		
Downbound	Domestic		3 000202	999999	83.5	32.0	7	11.5	11.5	-4.5	412	2012		1		1								
Downbound	Domestic		4 764	1521	200.0	35.0	2	9.0	1.9	0.1	225	2012	N	1								1		
Downbound	Domestic		4 000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2012	N	2				2						
Downbound	Domestic		4 745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2012		2				2						
Downbound	Domestic		4 764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2012	N	5				5						
Downbound	Domestic		4 000764	1546	200.0	35.0	9	9.0	1.6	7.4	205	2012	N	2				2						
Downbound	Domestic		4 705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2012	N	1				1						
Downbound	Domestic		4 705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2012	N	1				1						
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2012		1				1						
Downbound	Domestic		4 000764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2012	N	1				1						
Downbound	Domestic		4 764	1535	200.0	35.0	9	9.0	1.8	7.2	225	2012	N	1				1						
Downbound	Domestic		4 745	1458	195.0	35.0	8	9.0	1.9	6.1	205	2012	N	1				1						
Downbound	Domestic		4 706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2012	N	1				1						
Downbound	Domestic		4 000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2012	N	1				1						
Downbound	Domestic		4 000745	1865	200.0	35.0	10	10.0	1.5	8.5	139	2012	N	1				1						
Downbound	Domestic		4 764	1855	200.0	35.0	9	10.0	1.5	7.5	165	2012		1				1						
Downbound	Domestic		4 823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2012	N	1				1						
Downbound	Domestic		3 000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2012		37		37								
Downbound	Domestic		5 855	1490	195.0	35.0	2	9.5	2.0	0.0	170	2012		1										1
Downbound	Domestic		4 000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2012	N	1								1		
Downbound	Domestic		5 1754	4528	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	1										1
Downbound	Domestic		5 001619	1869	297.5	54.0	10	10.0	1.7	8.3	191	2012		8						8				
Downbound	Domestic		4 000764	2202	200.0	35.0	9	13.0	2.0	7.0	208	2012	N	3				3						
Downbound	Domestic		4 764	1875	200.0	35.0	7	10.0	1.7	5.3	154	2012	N	1				1						
Downbound	Domestic		4 705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2012	N	3				3						
Downbound	Domestic		5 001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2012		7						7				
Downbound	Domestic		5 001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2012		1						1				
Downbound	Domestic		4 764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2012	N	6				6						
Downbound	Domestic		4 764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2012	N	1				1						
Downbound	Domestic		4 000745	1863	195.0	35.0	2	10.0	2.0	0.0	9999	2012	N	1								1		
Downbound	Domestic		4 763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2012	N	5								5		
Downbound	Domestic		4 748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2012	N	7								7		
Downbound	Domestic		4 764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2012	N	1								1		
Downbound	Domestic		4 000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2012	N	7								7		
Downbound	Domestic		4 000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2012	N	3								3		
Downbound	Domestic		3 000223	999999	76.0	35.0	7	10.0	10.0	-3.0	499	2012		1		1								
Downbound	Domestic		4 000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2012	N	3								3		
Downbound	Domestic		5 1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2012		5						5				
Downbound	Domestic		4 856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2012	N	3				3						
Downbound	Domestic		4 687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2012	N	5				5						
Downbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2012		2				2						
Downbound	Domestic		4 705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2012	N	2				2						
Downbound	Domestic		4 764	1652	200.0	35.0	9	9.0	1.5	7.5	215	2012	N	1				1						
Downbound	Domestic		4 000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	1				1						
Downbound	Domestic		4 676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2012	N	1				1						
Downbound	Domestic		4 802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2012	N	2				2						
Downbound	Domestic		5 001637	3390	297.5	54.0	10	11.0	2.0	8.0	160	2012		2						2				
Downbound	Domestic		4 000764	1635	200.0	35.0	9	9.0	1.4	7.6	215	2012	N	1				1						
Downbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2012	N	1				1						
Downbound	Domestic		4 000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2012	N	1				1						
Downbound	Domestic		4 764	1619	200.0	35.0	8	9.0	1.3	6.7	165	2012	N	1				1						
Downbound	Domestic		3 249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2012		1		1								
Downbound	Domestic		4 748	1642	200.0	35.0	2	9.0	1.6	0.4	196	2012	N	1								1		
Downbound	Domestic		4 688	1912	195.0	35.0	9	10.0	1.7	7.3	160	2012	N	4				4						
Downbound	Domestic		5 001619	3891	297.5	54.0	9	10.5	1.5	7.5	175	2012		15						15				
Downbound	Domestic		4 763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2012	N	3				3						
Downbound	Domestic		5 1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2012		3						3				
Downbound	Domestic		4 000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2012	N	9				9						
Downbound	Domestic		5 2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2012		2						2				
Downbound	Domestic		5 773	1600	195.0	35.0	10	9.5	1.8	8.2	186	2012		1						1				
Downbound	Domestic		4 764	1531	200.0	35.0	9	9.0	1.6	7.4	204	2012	N	1				1						
Downbound	Domestic		4 764	1497	200.0	35.0	9	9.0	1.9	7.1	205	2012	N	1				1						
Downbound	Domestic		4 764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2012	N	3				3						
Downbound	Domestic		5 001754	4531	297.5	54.0	7	10.0	1.9	5.1	220	2012		1						1				
Downbound	Domestic		4 764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2012	N	2				2						
Downbound	Domestic		4 902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2012		1				1						
Downbound	Domestic		4 000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2012	N	1				1						
Downbound	Domestic		4 000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2012	N	10								10		
Downbound	Domestic		4 000764	2600	200.0	35.0	2	9.0	1.6	0.4	200	2012		1								1		
Downbound	Domestic		4 764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2012	N	7				7						
Downbound	Domestic		4 000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2012	N	1				1						
Downbound	Domestic		5 001632	3608	300.0	54.0	9	10.0	1.8	7.2	226	2012	N	1						1				
Downbound	Domestic		4 764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2012	N	1				1						
Downbound	Domestic		4 000745	1800	200.0	35.0	10	10.0	3.0	7.0	9999	2012	N	1				1						
Downbound	Domestic		4 000823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2012		1				1						
Downbound	Domestic		5 001616	5304	297.0	54.0	7	12.0	2.0	5.0	260	2012		0						0				
Downbound	Domestic		4 764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2012	N	1				1						
Downbound	Domestic		4 764	2000	200.0	35.0	10	13.0	1.5	8.5	9999	2012	N	1				1						
Downbound	Domestic		3 103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2012		8		8								
Downbound	Domestic		5 000891	1591	200.0	35.0	2	9.0	1.9	0.1	142	2012	N	2										2
Downbound	Domestic		4 000745	2200	195.0	35.0	2	12.0	1.6	0.4	220	2012	N	1								1		
Downbound	Domestic		5 1754	4240	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	1										1
Downbound	Domestic		4 764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2012	N	3				3						
Downbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2012	N	2				2						
Downbound	Domestic		4 705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2012	N	1				1						
Downbound	Domestic		4 764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2012	N	2				2						
Downbound	Domestic		4 848	1523	195.0	35.0	8	9.0	1.5	6.5	145	2012	N	1				1						
Downbound	Domestic		4 000764	1935	200.0	35.0	9	12.0	1.8	7.2	9999	2012	N	1				1						
Downbound	Domestic		4 727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2012	N	1				1						
Downbound	Domestic		4 000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2012		3				3						
Downbound	Domestic		4 705	1578	200.0	35.0	7	9.0	1.5	5.5	180	2012		1				1						
Downbound	Domestic		4 823	2295	200.0	35.0	9	12.0	1.4	7.6	227	2012	N	1				1						
Downbound	Domestic		3 266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2012		2		2								
Downbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	210	2012		1				1						
Downbound	Domestic		4 745	1494	195.0	35.0	8	9.0	1.6	6.4	166	2012	N	2				2						

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
							An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.						OK				Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	6				6						
Downbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2012	N	1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2012	N	5				5						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2012		5				5						
Downbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	210	2012	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2012	N	1				1						
Downbound	Domestic	4	688	1662	200.0	35.0	9	9.0	1.5	7.5	210	2012	N	1				1						
Downbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2012	N	1				1						
Downbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	169	2012	N	1				1						
Downbound	Domestic	4	687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2012		1				1						
Downbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2012	N	2								2		
Downbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	190	2012	N	1								1		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2012	N	3								3		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	180	2012	N	1								1		
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2012		5				5						
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2012	N	2				2						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2012	N	6				6						
Downbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2012	N	2				2						
Downbound	Domestic	5	001633	4744	300.0	54.0	9	11.6	2.3	6.7	189	2012	N	3						3				
Downbound	Domestic	5	001619	3891	297.5	54.0	9	10.0	1.7	7.3	179	2012		1						1				
Downbound	Domestic	4	823	2410	200.0	35.0	9	14.0	1.5	7.5	190	2012	N	1				1						
Downbound	Domestic	4	000802	2500	105.0	35.0	8	10.0	2.0	6.0	9999	2012	N	1				1						
Downbound	Domestic	4	736	1884	200.0	35.0	8	10.0	1.5	6.5	176	2012	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2012		1				1						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2012		7		7								
Downbound	Domestic	4	764	1635	200.0	35.0	2	9.0	1.5	0.5	165	2012	N	3								3		
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2012	N	2								2		
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2012	N	2								2		
Downbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2012		10		10								
Downbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2012		29		29								
Downbound	Domestic	4	000601	1450	195.0	35.0	2	10.5	2.0	0.0	120	2012	N	1								1		
Downbound	Domestic	4	687	1505	195.0	35.0	9	9.0	1.8	7.2	200	2012	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2012		6				6						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2012		8				8						
Downbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2012	N	1				1						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2012	N	3				3						
Downbound	Domestic	5	1619	4048	297.5	54.0	11	11.5	2.0	9.0	190	2012		1						1				
Downbound	Domestic	5	2688	2600	298.0	54.0	9	8.6	4.0	5.0	260	2012		1						1				
Downbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2012		1				1						
Downbound	Domestic	3	170	999999	85.0	30.0	7	7.6	7.6	-0.6	320	2012		2		2								
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2012		3		3								
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2012	N	1								1		
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2012		11				11						
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2012	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2012		1				1						
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	1.5	7.5	192	2012	N	1				1						
Downbound	Domestic	4	696	2297	200.0	35.0	7	10.0	1.4	5.6	185	2012	N	2				2						
Downbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2012	N	2				2						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	180	2012		1				1						
Downbound	Domestic	4	964	2098	200.0	35.0	9	11.0	1.5	7.5	218	2012		1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2012	N	1				1						
Downbound	Domestic	4	823	1643	200.0	35.0	12	12.0	1.5	10.5	9999	2012	N	1				1						
Downbound	Domestic	5	001619	3270	297.0	54.0	1	10.0	0.6	0.4	280	2012		1										1
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2012	N	2								2		
Downbound	Domestic	5	000825	1422	195.0	35.0	2	9.0	1.1	0.9	194	2012	N	4										4
Downbound	Domestic	4	000764	1652	200.0	35.0	2	9.0	2.0	0.0	215	2012	N	1								1		
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2012		13				13						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2012	N	4				4						
Downbound	Domestic	4	000705	1650	200.0	35.0	12	12.0	1.5	10.5	208	2012	N	1				1						
Downbound	Domestic	5	1092	2100	175.0	54.0	4	8.5	1.3	2.7	180	2012		1						1				
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2012		4		4								
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2012		22								22		
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	208	2012	N	1								1		
Downbound	Domestic	4	000764	1650	200.0	35.0	2	11.0	1.5	0.5	208	2012	N	1								1		
Downbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2012	N	3				3						
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2012		2				2						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	4				4						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2012		3				3						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2012		4				4						
Downbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.5	7.5	165	2012	N	1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2012	N	1				1						
Downbound	Domestic	5	001619	3891	297.5	54.0	6	10.5	1.5	4.5	175	2012		0						0				
Downbound	Domestic	4	000764	2060	200.0	35.0	8	11.0	1.8	6.2	195	2012		1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	9	9.0	1.7	7.3	195	2012	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	10	10.0	1.5	8.5	149	2012	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2012		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2012	N	21								21		
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2012	N	4										4
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2012		14				14						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2012	N	14				14						
Downbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2012	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2012	N	1				1						
Downbound	Domestic	4	000823	2304	200.0	35.0	8	12.0	1.5	6.5	180	2012	N	1				1						
Downbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2012	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.6	7.4	143	2012	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2012	N	2				2						
Downbound	Domestic	4	000764	1572	200.0	35.0	11	9.0	2.0	9.0	9999	2012	N	1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	8	10.0	1.7	6.3	163	2012	N	1				1						
Downbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2012	N	1				1						
Downbound	Domestic	4	705	1633	200.0	35.0	2	9.0	1.6	0.4	160	2012	N	1								1		
Downbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2012	N	1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	208	2012	N	1								1		
Downbound	Domestic	5	1754	4253	297.5	54.0	2	11.0	1.5	0.5	200	2012	N	1										1
Downbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2012	N	1				1						
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2012		1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2012	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.2	6.8	217	2012	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2012	N	3				3						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2012	N	2				2						
Downbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	200	2012	N	1				1						
Downbound	Domestic	5	001616	5304	297.0	54.0	7	12.0	2.0	5.0	450	2012		0						0				
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	170	2012	N	3								3		
Downbound	Domestic	3	119	999999	76.0	28.0	9	10.5	9.0	0.0	400	2012	N	1		1								
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2012		3		3								
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2012	N	5								5		
Downbound	Domestic	5	855	1512	195.0	35.0	2	9.4	2.0	0.0	168	2012	N	1										1
Downbound	Domestic	4	000745	2235	195.0	35.0	2	11.0	2.0	0.0	9999	2012	N	1								1		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2012	N	3								3		
Downbound	Domestic	5	2223	3400	297.5	54.0	10	10.0	2.0	8.0	180	2012		5						5				
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2012	N	3				3						
Downbound	Domestic	4	000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2012	N	4				4						
Downbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2012	N	1				1						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2012	N	2				2						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2012	N	1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	120	2012		1						1				
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	215	2012	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. **OK**

Total Trips = **84400**

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2012	N	5				5						
Downbound	Domestic	4	764	2077	200.0	35.0	12	11.0	1.5	10.5	215	2012	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2012	N	23								23		
Downbound	Domestic	5	001619	3444	297.0	54.0	1	10.0	0.6	0.4	280	2012		1										1
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2012	N	1								1		
Downbound	Domestic	5	001619	3891	297.5	54.0	2	10.5	1.5	0.5	175	2012		2										2
Downbound	Domestic	4	000764	2300	200.0	35.0	2	12.0	1.5	0.5	208	2012	N	1								1		
Downbound	Domestic	5	2147	3400	297.5	54.0	10	10.0	2.0	8.0	180	2012		1						1				
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2012	N	2				2						
Downbound	Domestic	5	001754	4444	297.5	54.0	7	11.0	2.0	5.0	200	2012	N	1						1				
Downbound	Domestic	5	1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2012		5						5				
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2012	N	6				6						
Downbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2012	N	1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	7	9.0	1.6	5.4	154	2012	N	2				2						
Downbound	Domestic	5	1634	4400	264.0	54.0	11	12.0	1.5	9.5	200	2012		1						1				
Downbound	Domestic	4	933	1527	195.0	35.0	10	11.0	1.5	8.5	199	2012	N	1				1						
Downbound	Domestic	4	823	2319	200.0	35.0	8	12.0	1.3	6.7	227	2012	N	1				1						
Downbound	Domestic	4	879	1455	195.0	35.0	2	9.0	1.5	0.5	172	2012	N	1								1		
Downbound	Domestic	4	345	1450	195.0	35.0	2	10.5	2.0	0.0	120	2012	N	1								1		
Downbound	Domestic	5	723	1481	195.0	35.0	3	9.2	2.5	0.5	186	2012	N	1										1
Downbound	Domestic	5	839	1800	137.0	54.0	9	9.0	1.6	7.4	90	2012		5						5				
Downbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2012	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2012		5				5						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2012	N	4				4						
Downbound	Domestic	4	000764	1561	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1				1						
Downbound	Domestic	4	000764	1633	200.0	35.0	12	9.0	1.6	10.4	225	2012	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2012		1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2012		20		20								
Downbound	Domestic	3	185	999999	135.0	32.0	7	6.0	6.0	1.0	400	2012		2		2								
Downbound	Domestic	5	886	1489	195.0	35.0	2	9.0	1.3	0.7	164	2012	N	3										3
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2012	N	4								4		
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2012		8				8						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2012		1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2012	N	1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2012		3				3						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2012	N	22				22						
Downbound	Domestic	4	000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2012	N	1				1						
Downbound	Domestic	5	001619	3891	297.5	54.0	8	10.0	1.7	6.3	179	2012		1						1				
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2012	N	1								1		
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2012		18		18								
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2012		3								3		
Downbound	Domestic	3	000169	999999	88.9	30.0	9	9.0	9.0	0.0	428	2012		25		25								
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2012	N	1								1		
Downbound	Domestic	4	000764	1615	200.0	35.0	2	12.0	1.8	0.2	170	2012		1								1		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.6	0.4	210	2012		1								1		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	120	2012		1								1		
Downbound	Domestic	5	1619	4048	297.5	54.0	9	11.5	2.0	7.0	190	2012		36						36				
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2012	N	1				1						
Downbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2012	N	1				1						
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2012		4						4				
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2012	N	6				6						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	9				9						
Downbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2012	N	2				2						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2012	N	3				3						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2012	N	2				2						
Downbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2012	N	3				3						
Downbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2012	N	10				10						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2012	N	4				4						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.5	6.5	217	2012	N	1				1						
Downbound	Domestic	5	001754	4400	297.0	54.0	8	11.0	0.6	7.4	280	2012		1						1				
Downbound	Domestic	4	705	1653	200.0	35.0	9	9.0	1.5	7.5	218	2012	N	1				1						
Downbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2012	N	1				1						
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2012		2		2								
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2012	N	9										9
Downbound	Domestic	3	79	999999	95.0	30.0	8	10.5	8.0	0.0	490	2012	N	2		2								
Downbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2012	N	2								2		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	190	2012	N	1								1		
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2012		2						2				
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2012	N	6				6						
Downbound	Domestic	4	764	1504	200.0	35.0	7	9.0	1.5	5.5	189	2012	N	1				1						
Downbound	Domestic	5	1754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2012		1						1				
Downbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2012	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2012	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2012	N	1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2012	N	3								3		
Downbound	Domestic	4	862	1736	195.0	35.0	2	10.0	1.5	0.5	192	2012	N	1								1		
Downbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2012	N	1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	186	2012	N	1								1		
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2012	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2012		5				5						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2012	N	6				6						
Downbound	Domestic	4	000764	1548	200.0	35.0	14	9.0	3.0	11.0	9999	2012	N	1				1						
Downbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2012	N	2				2						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2012		3				3						
Downbound	Domestic	5	1754	4240	297.5	54.0	9	11.0	1.5	7.5	200	2012	N	1						1				
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2012	N	3				3						
Downbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2012		1		1								
Downbound	Domestic	4	000764	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2012	N	2								2		
Downbound	Domestic	4	770	1889	200.0	35.0	2	10.0	1.5	0.5	149	2012	N	1								1		
Downbound	Domestic	4	823	1627	200.0	35.0	12	9.0	1.8	10.2	230	2012	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2012	N	7				7						
Downbound	Domestic	4	000764	1850	200.0	35.0	9	10.0	1.5	7.5	191	2012	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	7	9.0	1.5	5.5	165	2012	N	3				3						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2012	N	3				3						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2012	N	8				8						
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2012	N	1				1						
Downbound	Domestic	4	688	2142	195.0	35.0	7	11.0	1.5	5.5	160	2012	N	1				1						
Downbound	Domestic	4	687	1722	195.0	35.0	9	10.0	1.6	7.4	205	2012		1				1						
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2012	N	3								3		
Downbound	Domestic	4	764	2187	200.0	35.0	8	11.0	1.7	6.3	240	2012	N	1				1						
Downbound	Domestic	5	1819	3100	281.7	54.0	11	9.0	2.0	9.0	180	2012		7						7				
Downbound	Domestic	5	001754	4444	297.5	54.0	9	11.0	2.0	7.0	200	2012	N	1						1				
Downbound	Domestic	4	311	1498	195.0	35.0	9	9.0	1.6	7.4	155	2012	N	2				2						
Downbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2012	N	2				2						
Downbound	Domestic	4	802	2100	195.0	35.0	9	12.0	2.0	7.0	217	2012	N	1				1						
Downbound	Domestic	4	823	1843	200.0	35.0	8	13.0	1.6	6.4	230	2012	N	1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2012	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	9	9.0	1.5	7.5	170	2012	N	1				1						
Downbound	Domestic	4	000764	1553	200.0	35.0	9	9.0	1.6	7.4	130	2012		1				1						
Downbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2012		1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	2.0	7.0	170	2012	N	1				1						
Downbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2012		26		26								
Downbound	Domestic	4	706	1600	200.0	35.0	2	9.0	1.4	0.6	155	2012	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2012	N	2								2		
Downbound	Domestic	4	823	1642	200.0	35.0	2	9.0	1.6	0.4	160	2012	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2012	N	3				3						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2012	N	12				12						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2012	N	5				5						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2012		4				4						
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2012	N	2				2						
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2012	N	7				7						
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.4	7.6	215	2012	N	1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	1				1						
Downbound	Domestic	5	1619	4048	297.5	54.0	10	11.5	2.0	8.0	190	2012		6						6				
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2012		2				2						
Downbound	Domestic	4	705	1648	200.0	35.0	10	12.0	1.5	8.5	186	2012	N	1				1						
Downbound	Domestic	3	000466	686	140.0	38.0	8	11.0	8.0	0.0	490	2012		1		1								
Downbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2012	N	1								1		
Downbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2012	N	3								3		
Downbound	Domestic	4	823	1751	200.0	35.0	2	10.0	1.7	0.3	190	2012	N	1								1		
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	208	2012	N	1								1		
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2012	N	1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2012		5				5						
Downbound	Domestic	4	000823	1677	200.0	35.0	8	9.0	1.4	6.6	190	2012	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2012	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2012	N	5				5						
Downbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2012	N	8				8						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2012	N	4				4						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2012	N	3				3						
Downbound	Domestic	4	000705	1612	200.0	35.0	8	9.0	1.6	6.4	205	2012	N	1				1						
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2012	N	3				3						
Downbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2012	N	2				2						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2012	N	2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2012	N	1				1						
Downbound	Domestic	5	001616	5304	297.0	54.0	4	12.0	2.0	2.0	260	2012		1										1
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	255	2012	N	3				3						
Downbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2012		1				1						
Downbound	Domestic	5	1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2012		2						2				
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2012	N	14				14						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2012	N	6				6						
Downbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2012	N	1				1						
Downbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2012	N	1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2012	N	1				1						
Downbound	Domestic	4	000687	1535	200.0	35.0	9	9.0	1.5	7.5	217	2012	N	1				1						
Downbound	Domestic	4	764	1548	200.0	35.0	9	9.0	1.7	7.3	212	2012	N	1				1						
Downbound	Domestic	4	000745	1863	195.0	35.0	2	10.0	2.0	0.0	9999	2012		1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2012	N	1								1		
Downbound	Domestic	4	601	1400	195.0	35.0	2	10.0	2.0	0.0	110	2012		37								37		
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2012	N	3				3						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2012		7				7						
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2012		1				1						
Downbound	Domestic	4	705	1648	200.0	35.0	12	12.0	1.5	10.5	186	2012	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2012	N	29				29						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2012	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2012	N	6				6						
Downbound	Domestic	5	001632	3526	300.0	54.0	9	10.0	2.3	6.7	189	2012	N	3						3				
Downbound	Domestic	5	001321	3200	280.4	54.0	12	9.0	2.0	10.0	180	2012		1						1				
Downbound	Domestic	5	1754	4254	297.5	54.0	9	11.0	1.5	7.5	200	2012	N	1						1				
Downbound	Domestic	4	705	2002	200.0	35.0	7	9.0	1.5	5.5	190	2012	N	1				1						
Downbound	Domestic	4	688	1677	200.0	35.0	9	9.0	1.5	7.5	210	2012	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	3	14.0	3.0	0.0	9999	2012	N	1								1		
Downbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2012	N	1				1						
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2012	N	5								5		
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2012	N	2								2		
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.5	0.5	148	2012	N	1								1		
Downbound	Domestic	5	812	1432	195.0	35.0	2	9.0	1.1	0.9	142	2012	N	5										5
Downbound	Domestic	3	94	999999	75.0	26.0	9	9.0	9.0	0.0	220	2012	N	1		1								
Downbound	Domestic	4	799	1893	200.0	35.0	2	10.0	1.4	0.6	149	2012	N	1								1		
Downbound	Domestic	5	1721	3300	297.6	54.1	10	10.0	2.0	8.0	180	2012		5						5				
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2012	N	16				16						
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2012		5						5				
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2012	N	6				6						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2012	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2012	N	6				6						
Downbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2012		1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2012	N	6				6						
Downbound	Domestic	4	705	1650	200.0	35.0	11	12.0	1.5	9.5	195	2012	N	3				3						
Downbound	Domestic	4	000706	1626	200.0	35.0	9	9.0	1.3	7.7	145	2012	N	1				1						
Downbound	Domestic	4	000764	1865	200.0	35.0	9	10.0	1.5	7.5	139	2012	N	1				1						
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2012	N	1								1		
Downbound	Domestic	4	763	2290	195.0	35.0	2	12.0	1.7	0.3	235	2012	N	2								2		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2012	N	4								4		
Downbound	Domestic	3	000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2012		1		1								
Downbound	Domestic	3	200	999999	95.0	30.0	7	8.5	7.0	0.0	300	2012	N	1		1								
Downbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2012	N	1								1		
Downbound	Domestic	4	000745	1504	200.0	35.0	2	9.0	1.9	0.1	206	2012		1								1		
Downbound	Domestic	5	002099	5853	356.0	54.0	8	13.0	2.0	6.0	310	2012		2						2				
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2012	N	4				4						
Downbound	Domestic	5	1106	1800	175.0	54.0	9	10.0	2.0	7.0	170	2012		7						7				
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2012	N	1				1						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2012	N	6				6						
Downbound	Domestic	4	000764	1556	200.0	35.0	9	9.0	1.6	7.4	225	2012	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2012		1				1						
Downbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2012	N	3				3						
Downbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2012	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2012	N	2				2						
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2012	N	6								6		
Downbound	Domestic	3	27	999999	50.0	22.0	6	5.5	4.0	2.0	270	2012		1		1								
Downbound	Domestic	4	000764	1539	200.0	35.0	2	9.0	1.7	0.3	225	2012	N	1								1		
Downbound	Domestic	4	823	2304	200.0	35.0	2	10.0	1.7	0.3	190	2012	N	1								1		
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2012	N	12				12						
Downbound	Domestic	5	1861	5250	356.0	54.0	11	13.0	2.0	9.0	220	2012		7						7				
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2012	N	8				8						
Downbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2012	N	2				2						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2012	N	3				3						
Downbound	Domestic	5	1619	4048	297.5	54.0	8	11.5	2.0	6.0	190	2012		7						7				
Downbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2012	N	1				1						
Downbound	Domestic	4	687	1574	195.0	35.0	8	9.0	1.3	6.7	145	2012	N	2				2						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2012	N	1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2012	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2012		1				1						
Downbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	206	2012		1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	165	2012		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2012	N	18								18		
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	120	2012	N	2				2						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2012		3				3						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2012		7				7						
Downbound	Domestic	4	764	1865	200.0	35.0	9	11.0	1.5	7.5	208	2012	N	1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2012	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	9	10.0	2.0	7.0	9999	2012	N	1				1						
Downbound	Domestic	4	687	1501	195.0	35.0	12	10.0	1.5	10.5	186	2012	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	1605	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1				1						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2012	N	1				1						
Downbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2012	N	1								1		
Downbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.6	0.4	180	2012	N	1								1		
Downbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2012	N	1								1		
Downbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2012	N	2				2						
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2012	N	5				5						
Downbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2012	N	3				3						
Downbound	Domestic	4	000764	1592	200.0	35.0	9	9.0	2.0	7.0	9999	2012	N	1				1						
Downbound	Domestic	4	000764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2012	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2012	N	3				3						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2012	N	1				1						
Downbound	Domestic	4	705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2012	N	1				1						
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	1.6	6.4	220	2012	N	1				1						
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2012		11		11								
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2012		2		2								
Downbound	Domestic	4	705	1660	200.0	35.0	2	9.0	1.4	0.6	218	2012	N	1								1		
Downbound	Domestic	5	716	1400	195.0	35.0	2	9.5	1.8	0.2	170	2012		2										2
Downbound	Domestic	4	345	1450	195.0	35.0	2	10.6	2.0	0.0	120	2012	N	3								3		
Downbound	Domestic	3	000038	999999	50.0	22.0	6	7.0	6.0	0.0	300	2012	N	1		1								
Downbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2012	N	2				2						
Downbound	Domestic	4	000705	1650	200.0	35.0	8	12.0	1.5	6.5	208	2012	N	3				3						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2012	N	2				2						
Downbound	Domestic	4	764	1666	200.0	35.0	8	9.0	1.5	6.5	170	2012	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2012	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2012	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2012	N	2				2						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2012	N	2				2						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2012	N	5				5						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2012	N	2				2						
Downbound	Domestic	5	1754	4566	297.5	54.0	9	11.0	1.5	7.5	200	2012	N	1						1				
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2012	N	1				1						
Downbound	Domestic	4	000705	1659	200.0	35.0	8	9.0	1.4	6.6	205	2012	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2012		27		27								
Downbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2012		2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	220	2012	N	8								8		
Downbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2012		39		39								
Downbound	Domestic	5	761	1400	195.0	35.0	2	9.0	1.8	0.2	183	2012	N	1										1
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2012		1								1		
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2012	N	1				1						
Downbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2012	N	5				5						
Downbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2012	N	2				2						
Downbound	Domestic	4	000764	2300	200.0	35.0	7	9.0	1.4	5.6	165	2012		1				1						
Downbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2012	N	3				3						
Downbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	148	2012	N	1				1						
Downbound	Domestic	5	001619	3360	297.0	54.0	9	10.0	0.6	8.4	280	2012		1						1				
Downbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2012		1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	7	11.0	1.7	5.3	224	2012		1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2012	N	1								1		
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	1.8	0.2	166	2012	N	2										2
Downbound	Domestic	4	764	1865	200.0	35.0	2	12.0	1.5	0.5	208	2012	N	2								2		
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2012	N	15				15						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2012	N	9				9						
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2012		2						2				
Downbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2012	N	2				2						
Downbound	Domestic	4	727	1768	200.0	35.0	10	10.0	1.6	8.4	148	2012	N	1				1						
Downbound	Domestic	5	001616	5304	297.0	54.0	4	12.0	2.0	2.0	450	2012		1										1
Downbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2012		1				1						
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2012		6				6						
Downbound	Domestic	4	000764	2488	200.0	35.0	2	12.0	1.6	0.4	9999	2012	N	1								1		
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2012		13				13						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2012	N	5				5						
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2012		11				11						
Downbound	Domestic	4	000706	1557	200.0	35.0	9	9.0	1.6	7.4	205	2012	N	1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2012	N	7				7						
Downbound	Domestic	5	1754	42440	297.5	54.0	9	11.0	1.5	7.5	200	2012	N	1						1				
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2012	N	1				1						
Downbound	Domestic	5	001619	4048	297.5	54.0	9	12.0	3.0	6.0	250	2012		2						2				
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2012	N	6								6		
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2012	N	4										4
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2012	N	1								1		
Downbound	Domestic	3	000250	999999	84.9	30.0	5	8.5	5.0	0.0	470	2012	N	1		1								
Downbound	Domestic	5	000677	2234	192.0	42.0	2	11.0	2.0	0.0	150	2012	N	1										1
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2012	N	3								3		
Downbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2012	N	1								1		
Downbound	Domestic	5	1891	3100	281.7	54.0	11	9.0	2.0	9.0	180	2012		3						3				
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2012		2				2						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2012	N	10				10						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2012	N	10				10						
Downbound	Domestic	4	000764	1857	200.0	35.0	2	9.0	1.5	0.5	160	2012	N	3								3		
Downbound	Domestic	4	705	1877	200.0	35.0	8	10.0	1.4	6.6	146	2012	N	1				1						
Downbound	Domestic	4	000258	2220	172.8	54.0	10	9.6	2.0	8.0	100	2012		1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	10	10.0	1.5	8.5	148	2012	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2012	N	1				1						
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2012	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	220	2012	N	1								1		
Downbound	Domestic	4	000745	2100	195.0	35.0	2	12.0	2.0	0.0	9999	2012	N	1								1		
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2012		2				2						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2012	N	2				2						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2012	N	2				2						
Downbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2012	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2012	N	6								6		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	170	2012		3								3		
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2012	N	1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2012		4				4						
Downbound	Domestic	5	002800	2350	282.0	54.0	9	12.0	2.0	7.0	300	2012		4						4				
Downbound	Domestic	5	914	2800	147.5	52.5	12	13.0	2.0	10.0	180	2012		2						2				
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2012	N	10				10						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2012	N	2				2						
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2012	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2012	N	2				2						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2012		2				2						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2012	N	1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2012		22								22		
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2012		7		7								
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2012		2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2012	N	4				4						
Downbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2012	N	4				4						
Downbound	Domestic	4	764	1648	200.0	35.0	13	13.0	1.5	11.5	208	2012	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	11.0	2.0	7.0	165	2012		1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	13	13.0	1.5	11.5	208	2012	N	1				1						
Downbound	Domestic	5	1619	3891	297.5	54.0	9	10.5	1.5	7.5	175	2012		1						1				
Downbound	Domestic	4	000764	1652	200.0	35.0	9	9.0	2.0	7.0	215	2012	N	1				1						
Downbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.6	7.4	149	2012	N	1				1						
Downbound	Domestic	4	705	1663	200.0	35.0	9	9.0	1.5	7.5	223	2012	N	1				1						
Downbound	Domestic	5	001632	3900	300.0	54.0	2	10.0	2.0	0.0	205	2012	N	2										2

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	1619	3891	297.5	54.0	10	10.5	1.5	8.5	175	2012		9						9				
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2012	N	24								24		
Downbound	Domestic	5	1659	2500	295.0	54.0	9	9.0	2.0	7.0	90	2012		1						1				
Downbound	Domestic	4	764	1528	200.0	35.0	9	9.0	1.7	7.3	163	2012	N	2				2						
Downbound	Domestic	4	688	1662	200.0	35.0	8	9.0	1.5	6.5	210	2012	N	1				1						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2012	N	6				6						
Downbound	Domestic	4	862	1725	195.0	35.0	8	10.0	2.0	6.0	192	2012	N	2				2						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2012	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2012		1				1						
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2012	N	2								2		
Downbound	Domestic	4	823	2398	200.0	35.0	2	13.0	2.0	0.0	165	2012	N	1								1		
Downbound	Domestic	3	000067	999999	68.9	30.0	10	10.0	10.0	0.0	440	2012		10		10								
Downbound	Domestic	4	000764	2077	200.0	35.0	4	12.0	1.5	2.5	215	2012	N	1				1						
Downbound	Domestic	5	1419	3000	230.0	54.0	9	10.0	2.0	7.0	170	2012		6						6				
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2012		2						2				
Downbound	Domestic	4	000764	1648	200.0	35.0	11	13.0	1.5	9.5	208	2012	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2012	N	4				4						
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2012	N	4				4						
Downbound	Domestic	4	745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2012	N	1				1						
Downbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2012		1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2012		1						1				
Downbound	Domestic	4	764	2400	200.0	35.0	9	9.0	1.6	7.4	225	2012	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2012	N	1				1						
Downbound	Domestic	4	916	1000	198.0	46.0	13	12.5	2.0	11.0	530	2012	N	1				1						
Downbound	Domestic	4	000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2012	N	1								1		
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2012	N	1								1		
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2012	N	4										4
Downbound	Domestic	4	000764	1862	200.0	35.0	3	10.0	1.5	1.5	191	2012	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2012		5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2012	N	5				5						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2012	N	4				4						
Downbound	Domestic	4	687	1723	195.0	35.0	7	10.0	1.6	5.4	207	2012		1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2012	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.3	7.7	213	2012	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	1869	2012	N	1				1						
Downbound	Domestic	4	000745	1863	195.0	35.0	8	10.0	2.0	6.0	9999	2012		1				1						
Downbound	Domestic	5	001619	3612	300.0	54.0	9	9.3	2.0	7.0	190	2012	N	1						1				
Downbound	Domestic	4	705	1645	200.0	35.0	9	9.0	1.5	7.5	200	2012	N	1				1						
Downbound	Domestic	4	000764	1536	200.0	35.0	9	9.0	1.8	7.2	225	2012	N	1				1						
Downbound	Domestic	5	1754	4253	297.5	54.0	9	11.0	1.5	7.5	200	2012	N	2						2				
Downbound	Domestic	4	705	1644	200.0	35.0	9	9.0	1.5	7.5	140	2012	N	1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2012	N	1				1						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2012	N	1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2012		2				2						
Downbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2012		28		28								
Downbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2012		26		26								
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2012	N	21								21		
Downbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2012		7		7								
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2012	N	2								2		
Downbound	Domestic	3	64	64	64.0	26.0	6	7.5	6.0	0.0	496	2012		1		1								
Downbound	Domestic	5	795	1475	195.0	35.0	2	9.0	1.8	0.2	178	2012	N	3										3
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	2.0	8.0	220	2012		5						5				
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2012		2				2						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2012	N	6				6						
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2012	N	2				2						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2012	N	5				5						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2012	N	3				3						
Downbound	Domestic	5	000543	1352	154.0	42.0	10	10.0	1.6	8.4	150	2012		1						1				
Downbound	Domestic	5	001619	3270	297.0	54.0	9	10.0	0.6	8.4	280	2012		1						1				
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2012	N	2				2						
Downbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2012	N	1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2012		1				1						
Downbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2012	N	1				1						
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2012		31		31								
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2012		26		26								
Downbound	Domestic	4	000764	2151	200.0	35.0	2	13.0	1.8	0.2	190	2012	N	1								1		
Downbound	Domestic	4	000764	1910	200.0	35.0	3	13.0	3.0	0.0	206	2012		2								2		
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2012	N	1								1		
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2012	N	2								2		
Downbound	Domestic	4	500	1450	195.0	35.0	2	10.6	2.0	0.0	120	2012	N	1								1		
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2012		1								1		
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2012		2						2				
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2012	N	3				3						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2012	N	6				6						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2012	N	3				3						
Downbound	Domestic	5	001619	4048	297.5	54.0	10	12.0	3.0	7.0	250	2012		1						1				
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2012	N	1				1						
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2012		6		6								
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2012	N	6								6		
Downbound	Domestic	4	783	1450	195.0	35.0	2	9.0	2.0	0.0	190	2012	N	1								1		
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2012	N	3								3		
Downbound	Domestic	3	000133	444	110.0	32.0	11	10.3	8.6	2.4	456	2012		1		1								
Downbound	Domestic	4	345	1450	195.0	35.0	2	9.0	1.5	0.5	105	2012	N	2								2		
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.5	0.5	217	2012	N	2								2		
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	189	2012	N	1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2012	N	3				3						
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2012	N	1				1						
Downbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2012	N	7				7						
Downbound	Domestic	4	000764	1611	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1				1						
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2012		8						8				
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2012	N	17								17		
Downbound	Domestic	4	000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2012	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2012	N	6				6						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2012	N	5				5						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2012		1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	9	9.0	1.7	7.3	205	2012	N	1				1						
Downbound	Domestic	4	000329	1500	140.0	40.0	2	3.0	2.0	0.0	70	2012	N	1								1		
Downbound	Domestic	4	764	1666	200.0	35.0	9	9.0	1.5	7.5	170	2012	N	1				1						
Downbound	Domestic	4	764	1557	200.0	35.0	2	9.0	1.5	0.5	135	2012	N	2								2		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2012	N	3								3		
Downbound	Domestic	3	251	999999	95.3	32.1	8	8.6	7.6	0.4	405	2012		1		1								
Downbound	Domestic	4	823	1627	200.0	35.0	13	9.0	1.8	11.2	230	2012	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2012	N	3				3						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2012	N	3				3						
Downbound	Domestic	4	000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2012	N	2				2						
Downbound	Domestic	5	716	1450	195.0	35.0	9	9.0	1.5	7.5	168	2012	N	6						6				
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2012	N	4				4						
Downbound	Domestic	4	933	1527	195.0	35.0	12	10.0	1.5	10.5	199	2012	N	1				1						
Downbound	Domestic	4	000764	1578	200.0	35.0	12	9.0	3.0	9.0	9999	2012	N	1				1						
Downbound	Domestic	4	000687	1504	195.0	35.0	8	9.0	1.6	6.4	205	2012	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2012		1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	4	13.0	3.0	1.0	170	2012	1	1								1		
Downbound	Domestic	3	000095	999999	76.0	34.0	7	11.0	11.0	-4.0	550	2012		4		4								
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2012	N	5								5		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2012	N	1								1		
Downbound	Domestic	4	705	9100	200.0	35.0	8	10.0	1.4	6.6	208	2012		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
														OK			Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		5 1455	3200	290.0	54.0	9	10.0	2.0	7.0	170	2012		4						4				
Downbound	Domestic		5 1876	3400	297.5	54.0	9	10.0	2.0	7.0	170	2012		2						2				
Downbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.6	6.4	125	2012		1				1						
Downbound	Domestic		4 000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2012	N	2				2						
Downbound	Domestic		4 727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2012	N	3				3						
Downbound	Domestic		4 000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2012	N	1				1						
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2012		1				1						
Downbound	Domestic		4 764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2012	N	1				1						
Downbound	Domestic		4 000745	2235	195.0	35.0	2	10.0	3.0	-1.0	216	2012	N	2								2		
Downbound	Domestic		4 764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2012	N	1								1		
Downbound	Domestic		4 000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2012	N	1								1		
Downbound	Domestic		5 001619	3142	297.0	54.0	1	10.0	0.6	0.4	280	2012		1										1
Downbound	Domestic		4 823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2012	N	5				5						
Downbound	Domestic		4 000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2012	N	2				2						
Downbound	Domestic		4 000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2012	N	2				2						
Downbound	Domestic		4 823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2012		1				1						
Downbound	Domestic		3 000177	999999	85.8	32.0	9	9.0	9.0	0.0	416	2012		17		17								
Downbound	Domestic		5 001632	3000	300.0	54.0	2	12.0	2.0	0.0	189	2012	N	2										2
Upbound	Domestic		4 922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2013		23			23							
Upbound	Domestic		4 764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2013	N	1			1							
Upbound	Domestic		4 764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2013	N	1			1							
Upbound	Domestic		4 688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2013	N	1			1							
Upbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2013		6			6							
Upbound	Domestic		4 687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2013		1			1							
Upbound	Domestic		4 196	541	110.0	30.0	7	6.6	1.0	6.0	70	2013	N	2			2							
Upbound	Domestic		5 788	1439	195.0	35.0	8	9.0	2.0	6.0	165	2013	N	3					3					
Upbound	Domestic		4 000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2013	N	4			4							
Upbound	Domestic		4 705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2013	N	2			2							
Upbound	Domestic		4 000745	1497	195.0	35.0	9	9.0	1.6	7.4	130	2013	N	1			1							
Upbound	Domestic		4 688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2013	N	2			2							
Upbound	Domestic		4 000823	1526	200.0	35.0	8	9.0	1.6	6.4	180	2013	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2013		1			1							
Upbound	Domestic		4 000764	1560	200.0	35.0	12	9.0	2.0	10.0	9999	2013	N	1			1							
Upbound	Domestic		4 705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2013	N	1			1							
Upbound	Domestic		5 2476	2500	310.0	50.0	2	9.0	2.5	-0.5	230	2013		4									4	
Upbound	Domestic		4 680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2013	N	10			10							
Upbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2013	N	33			33							
Upbound	Domestic		4 601	1400	195.0	35.0	8	10.0	2.0	6.0	110	2013		46			46							
Upbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2013	N	4			4							
Upbound	Domestic		4 764	1517	200.0	35.0	7	9.0	1.9	5.1	225	2013	N	1			1							
Upbound	Domestic		4 000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2013	N	3			3							
Upbound	Domestic		4 000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2013		8			8							
Upbound	Domestic		4 764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2013	N	9			9							
Upbound	Domestic		4 706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	4			4							
Upbound	Domestic		4 862	1736	195.0	35.0	9	10.0	1.5	7.5	192	2013	N	1			1							
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2013		2			2							
Upbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2013	N	2			2							
Upbound	Domestic		4 000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2013	N	1			1							
Upbound	Domestic		4 573	1500	195.0	35.0	5	10.0	2.0	3.0	110	2013		35			35							
Upbound	Domestic		4 922	2295	200.0	35.0	8	12.0	1.5	6.5	190	2013	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2013		1			1							
Upbound	Domestic		4 000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2013	N	1			1							
Upbound	Domestic		4 000764	2190	200.0	35.0	10	12.0	2.0	8.0	160	2013	N	1			1							
Upbound	Domestic		4 764	1608	200.0	35.0	7	9.0	1.5	5.5	225	2013	N	1			1							
Upbound	Domestic		4 823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2013	N	1			1							
Upbound	Domestic		4 764	1612	200.0	35.0	7	9.0	1.5	5.5	189	2013	N	1			1							
Upbound	Domestic		3 110	999999	56.0	22.0	6	7.0	6.0	0.0	260	2013		2		2								
Upbound	Domestic		4 705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2013	N	3							3			
Upbound	Domestic		4 772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2013	N	4							4			
Upbound	Domestic		5 001632	3900	300.0	54.0	2	10.0	2.0	0.0	205	2013	N	1									1	
Upbound	Domestic		5 001632	3000	300.0	54.0	2	12.0	2.0	0.0	189	2013	N	1									1	
Upbound	Domestic		4 000764	1615	200.0	35.0	2	12.0	1.8	0.2	170	2013		1							1			
Upbound	Domestic		5 1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2013		2									2	
Upbound	Domestic		4 764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2013	N	1							1			
Upbound	Domestic		4 000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2013	N	1							1			
Upbound	Domestic		4 823	1662	200.0	35.0	8	13.0	1.6	6.4	230	2013	N	1			1							
Upbound	Domestic		4 000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2013	N	3			3							
Upbound	Domestic		4 771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2013	N	2			2							
Upbound	Domestic		4 802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2013		1			1							
Upbound	Domestic		4 771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2013	N	1			1							
Upbound	Domestic		4 687	1629	195.0	35.0	9	9.0	1.4	7.6	160	2013	N	2			2							
Upbound	Domestic		4 764	1648	200.0	35.0	13	11.0	1.5	11.5	208	2013	N	1			1							
Upbound	Domestic		4 687	1534	195.0	35.0	9	9.0	1.8	7.2	169	2013	N	1			1							
Upbound	Domestic		4 000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2013	N	1			1							
Upbound	Domestic		5 2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2013		3									3	
Upbound	Domestic		3 199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2013		20		20								
Upbound	Domestic		3 141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2013		3		3								
Upbound	Domestic		4 000745	1705	195.0	35.0	2	10.0	1.6	0.4	139	2013	N	1							1			
Upbound	Domestic		4 727	1768	200.0	35.0	2	10.0	1.6	0.4	148	2013	N	1							1			
Upbound	Domestic		3 414	999999	110.0	32.0	8	9.0	7.5	0.5	450	2013	N	1		1								
Upbound	Domestic		4 763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2013	N	3			3							
Upbound	Domestic		4 000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2013		7			7							
Upbound	Domestic		4 764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2013	N	3			3							
Upbound	Domestic		4 000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2013	N	2			2							
Upbound	Domestic		4 823	2398	200.0	35.0	12	13.0	2.0	10.0	165	2013	N	2			2							
Upbound	Domestic		4 764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	2			2							
Upbound	Domestic		4 933	1527	195.0	35.0	10	12.0	1.5	8.5	199	2013	N	1			1							
Upbound	Domestic		4 862	1539	195.0	35.0	7	9.0	1.5	5.5	192	2013	N	1			1							
Upbound	Domestic		4 764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2013	N	3			3							
Upbound	Domestic		4 770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2013	N	1			1							
Upbound	Domestic		4 764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2013		1			1							
Upbound	Domestic		5 001632	3000	300.0	54.0	2	12.0	2.0	0.0	225	2013	N	4									4	
Upbound	Domestic		5 766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2013	N	3									3	
Upbound	Domestic		3 79	999999	95.0	30.0	8	10.5	8.0	0.0	490	2013	N	1		1								
Upbound	Domestic		4 764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	1							1			
Upbound	Domestic		4 000764	1619	200.0	35.0	2	9.0	1.6	0.4	170	2013		1							1			
Upbound	Domestic		5 001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2013		1									1	
Upbound	Domestic		4 000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2013	N	5			5							
Upbound	Domestic		4 000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2013	N	14							14			
Upbound	Domestic		4 823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2013		2			2							
Upbound	Domestic		4 727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2013	N	4			4							
Upbound	Domestic		4 764	190	200.0	35.0	9	11.0	4.0	5.0	170	2013	N	1			1							
Upbound	Domestic		4 848	1512	195.0	35.0	9	9.0	1.5	7.5	223	2013	N	1			1							
Upbound	Domestic		4 000764	1635	200.0	35.0	8	9.0	1.4	6.6	215	2013	N	1			1							
Upbound	Domestic		3 157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2013		12		12								
Upbound	Domestic		3 349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2013		4		4								
Upbound	Domestic		4 000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	2							2			
Upbound	Domestic		4 823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2013	N	2							2			
Upbound	Domestic		4 000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2013	N	1							1			
Upbound	Domestic		4 764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2013	N	1							1			
Upbound	Domestic		5 2099	4809	356.0	54.0	1	11.0	0.6	0.4	280	2013		1									1	
Upbound	Domestic		3 517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2013		1		1								
Upbound	Domestic		5 1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2013		5									5	
Upbound	Domestic		4 000764	1875	200.0	35.0	2	10.0	1.7	0.3	160	2013	N	2							2			
Upbound	Domestic		4 000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2013	N	8			8							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2013		10			10							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000823	2161	200.0	35.0	10	12.0	1.8	8.2	219	2013		1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2013		3			3							
Upbound	Domestic	4	000764	1910	200.0	35.0	8	9.0	2.0	6.0	195	2013		1			1							
Upbound	Domestic	5	1106	1800	175.0	54.0	2	10.0	2.0	0.0	170	2013		4									4	
Upbound	Domestic	4	687	1494	195.0	35.0	2	9.0	1.7	0.3	166	2013	N	1							1			
Upbound	Domestic	4	000764	1633	200.0	35.0	12	9.0	1.6	10.4	225	2013	N	1			1							
Upbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2013	N	2			2							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2013	N	2			2							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2013		1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.6	7.4	210	2013	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2013	N	1			1							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2013	N	1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2013		21		21								
Upbound	Domestic	3	201	999999	108.8	28.0	7	7.5	6.9	0.1	260	2013		1		1								
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2013		11							11			
Upbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2013	N	3							3			
Upbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2013	N	3							3			
Upbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2013		2		2								
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2013	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2013	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2013	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2013		5			5							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2013	N	1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	7	9.0	2.0	5.0	140	2013		2			2							
Upbound	Domestic	4	723	1875	200.0	35.0	8	10.0	1.7	6.3	163	2013	N	1			1							
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2013		1		1								
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2013		1									1	
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2013	N	2			2							
Upbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2013		2			2							
Upbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2013	N	2			2							
Upbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2013	N	7			7							
Upbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2013		2			2							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2013		4			4							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	220	2013		1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2013	N	4			4							
Upbound	Domestic	3	000262	999999	109.8	34.0	6	8.0	6.0	0.0	480	2013	N	1		1								
Upbound	Domestic	4	834	1701	195.0	35.0	2	10.0	1.7	0.3	210	2013	N	1							1			
Upbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2013	N	1							1			
Upbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2013	N	2							2			
Upbound	Domestic	4	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2013	N	1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2013	N	13					13					
Upbound	Domestic	4	000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2013	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2013		1			1							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2013		11			11							
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2013	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2013	N	1			1							
Upbound	Domestic	4	000764	1625	200.0	35.0	12	9.0	3.0	9.0	9999	2013	N	1			1							
Upbound	Domestic	4	000609	2190	200.0	35.0	9	12.0	2.0	7.0	260	2013	N	1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	7	9.0	1.9	5.1	220	2013	N	1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	2	10.0	1.5	0.5	176	2013	N	1							1			
Upbound	Domestic	5	001619	3142	297.0	54.0	1	10.0	0.6	0.4	280	2013		6									6	
Upbound	Domestic	5	1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2013		7									7	
Upbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2013		1							1			
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2013		1		1								
Upbound	Domestic	4	764	1535	200.0	35.0	2	9.0	1.8	0.2	225	2013	N	1							1			
Upbound	Domestic	4	705	1645	200.0	35.0	2	9.0	1.5	0.5	200	2013	N	1							1			
Upbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2013	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2013	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2013	N	1			1							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2013	N	3			3							
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	8			8							
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2013	N	6			6							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2013	N	2			2							
Upbound	Domestic	4	000764	1620	200.0	35.0	11	9.0	2.0	9.0	9999	2013	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	11.0	1.8	7.2	170	2013		1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2013	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2013		2			2							
Upbound	Domestic	5	001637	3390	297.5	54.0	10	11.0	2.0	8.0	160	2013		2					2					
Upbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	183	2013	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2013	N	3			3							
Upbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2013	N	1			1							
Upbound	Domestic	5	1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2013		3									3	
Upbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2013		1							1			
Upbound	Domestic	4	000609	2190	200.0	35.0	2	12.0	2.0	0.0	260	2013	N	1							1			
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2013		33			33							
Upbound	Domestic	4	000764	1857	200.0	35.0	9	10.0	1.5	7.5	191	2013	N	1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2013		4			4							
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2013	N	2			2							
Upbound	Domestic	4	764	1546	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	1			1							
Upbound	Domestic	4	687	1829	200.0	35.0	8	10.6	1.5	6.5	220	2013		1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	7	9.0	1.5	5.5	163	2013	N	1			1							
Upbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2013	N	2			2							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	12.0	2.0	9.0	208	2013	N	1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2013		4							4			
Upbound	Domestic	5	1754	3665	297.5	54.0	2	12.0	2.0	0.0	180	2013		1									1	
Upbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2013	N	2							2			
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2013	N	2			2							
Upbound	Domestic	4	907	1733	195.0	35.0	9	10.0	1.6	7.4	200	2013		1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2013		7			7							
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2013		2			2							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2013		2			2							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2013		1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2013	N	1			1							
Upbound	Domestic	4	000764	1765	200.0	35.0	12	13.0	2.0	10.0	165	2013		1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	6	9.0	1.8	4.2	225	2013	N	1			1							
Upbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	170	2013	N	1			1							
Upbound	Domestic	5	001754	4968	297.6	54.0	3	12.9	3.0	0.0	220	2013	N	3									3	
Upbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2013	N	3							3			
Upbound	Domestic	4	764	1854	200.0	35.0	2	10.0	1.6	0.4	224	2013	N	1							1			
Upbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2013	N	16			16							
Upbound	Domestic	4	000764	1551	200.0	35.0	5	9.0	1.6	3.4	225	2013	N	2			2							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2013	N	2			2							
Upbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2013	N	2			2							
Upbound	Domestic	4	000764	1869	200.0	35.0	5	10.0	1.7	3.3	191	2013	N	1			1							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	10.0	2.0	0.0	180	2013		3									3	
Upbound	Domestic	4	000823	2200	200.0	35.0	2	12.0	2.0	0.0	213	2013	N	1							1			
Upbound	Domestic	4	764	1673	200.0	35.0	2	9.0	1.4	0.6	165	2013	N	1							1			
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2013		4		4								
Upbound	Domestic	4	000764	1608	200.0	35.0	7	9.0	1.7	5.3	215	2013	N	2			2							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2013	N	3			3							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2013		4			4							
Upbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2013	N	2			2							
Upbound	Domestic	4	618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2013		1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	10	14.0	1.6	8.4	140	2013	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2013	N	3			3							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 000764	1765	200.0	35.0	12	11.0	2.0	10.0	165	2013		1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2013	N	2			2							
Upbound	Domestic		4 470	1200	160.0	35.0	9	8.5	1.5	7.5	100	2013		10			10							
Upbound	Domestic		4 764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2013	N	1			1							
Upbound	Domestic		4 687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2013		1			1							
Upbound	Domestic		5 1455	3200	290.0	54.0	2	10.0	2.0	0.0	170	2013		5									5	
Upbound	Domestic		4 856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2013	N	1							1			
Upbound	Domestic		4 745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2013	N	1							1			
Upbound	Domestic		4 802	1481	195.0	35.0	2	11.0	1.8	0.2	250	2013		1							1			
Upbound	Domestic		5 1816	5450	356.0	54.0	11	13.0	2.0	9.0	220	2013		5					5					
Upbound	Domestic		4 764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2013	N	1			1							
Upbound	Domestic		4 000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2013	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2013	N	3			3							
Upbound	Domestic		4 000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2013		1			1							
Upbound	Domestic		4 687	1514	195.0	35.0	9	9.0	1.5	7.5	206	2013		2			2							
Upbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2013	N	2			2							
Upbound	Domestic		4 834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2013	N	3			3							
Upbound	Domestic		4 000764	1651	200.0	35.0	11	9.0	1.8	9.2	206	2013		1			1							
Upbound	Domestic		4 705	1647	200.0	35.0	8	9.0	1.4	6.6	205	2013	N	1			1							
Upbound	Domestic		3 209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2013		6		6								
Upbound	Domestic		4 764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2013	N	2							2			
Upbound	Domestic		4 564	1619	200.0	35.0	9	9.0	1.6	7.4	160	2013	N	1			1							
Upbound	Domestic		4 705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2013		7			7							
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2013		4			4							
Upbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2013		2			2							
Upbound	Domestic		4 764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	10			10							
Upbound	Domestic		4 764	2187	200.0	35.0	9	11.0	1.7	7.3	240	2013		1			1							
Upbound	Domestic		4 000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2013		2			2							
Upbound	Domestic		4 470	1200	160.0	35.0	6	8.5	1.5	4.5	100	2013		5			5							
Upbound	Domestic		5 1816	5450	356.0	54.0	2	13.0	2.0	0.0	220	2013		7									7	
Upbound	Domestic		3 000323	999999	140.0	42.0	6	9.5	5.8	0.2	428	2013	N	4		4								
Upbound	Domestic		4 772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2013	N	5							5			
Upbound	Domestic		3 000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2013		1		1								
Upbound	Domestic		4 745	1495	195.0	35.0	6	9.0	1.7	4.3	225	2013	N	1			1							
Upbound	Domestic		4 933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2013	N	8			8							
Upbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2013		9			9							
Upbound	Domestic		4 764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2013		4			4							
Upbound	Domestic		4 745	1916	195.0	35.0	11	11.0	1.5	9.5	149	2013	N	5			5							
Upbound	Domestic		4 000764	1677	200.0	35.0	6	9.0	1.4	4.6	165	2013		1			1							
Upbound	Domestic		4 000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2013		1			1							
Upbound	Domestic		4 764	1765	200.0	35.0	9	10.0	2.0	7.0	165	2013		2			2							
Upbound	Domestic		4 000764	1745	200.0	35.0	8	10.0	1.7	6.3	204	2013	N	1			1							
Upbound	Domestic		3 230	999999	148.0	30.0	8	8.8	7.3	0.7	360	2013		1		1								
Upbound	Domestic		3 64	64	64.0	26.0	6	7.5	6.0	0.0	496	2013		3		3								
Upbound	Domestic		5 2099	5067	356.0	54.0	1	11.0	0.6	0.4	280	2013		1									1	
Upbound	Domestic		4 000802	1705	195.0	35.0	2	10.0	1.5	0.5	140	2013	N	1							1			
Upbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2013	N	11			11							
Upbound	Domestic		4 000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2013	N	2			2							
Upbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2013	N	3			3							
Upbound	Domestic		4 687	1723	195.0	35.0	7	10.0	1.5	5.5	206	2013		2			2							
Upbound	Domestic		4 000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2013		12			12							
Upbound	Domestic		4 823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2013		6			6							
Upbound	Domestic		4 000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2013		1			1							
Upbound	Domestic		4 823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2013	N	4			4							
Upbound	Domestic		5 001619	1869	297.5	54.0	2	10.0	1.7	0.3	191	2013		2									2	
Upbound	Domestic		3 000095	999999	76.0	34.0	7	11.0	11.0	-4.0	550	2013		6		6								
Upbound	Domestic		3 66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2013		3		3								
Upbound	Domestic		5 000735	1511	200.0	35.0	2	9.2	2.0	0.0	179	2013	N	1									1	
Upbound	Domestic		4 764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2013		3							3			
Upbound	Domestic		4 705	1600	200.0	35.0	2	9.0	1.6	0.4	180	2013	N	1							1			
Upbound	Domestic		3 000194	242	110.0	32.0	11	10.3	8.6	2.4	450	2013		1		1								
Upbound	Domestic		4 823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2013	N	5			5							
Upbound	Domestic		4 764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2013	N	3			3							
Upbound	Domestic		4 000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2013	N	17			17							
Upbound	Domestic		4 000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2013	N	17			17							
Upbound	Domestic		4 764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2013		14			14							
Upbound	Domestic		4 705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2013	N	2			2							
Upbound	Domestic		4 676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2013	N	1			1							
Upbound	Domestic		4 705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2013	N	2			2							
Upbound	Domestic		4 000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2013		3			3							
Upbound	Domestic		4 000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2013		1			1							
Upbound	Domestic		4 727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2013	N	1			1							
Upbound	Domestic		3 000255	375	110.0	34.0	8	8.0	7.5	0.5	380	2013		2		2								
Upbound	Domestic		4 764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2013	N	7							7			
Upbound	Domestic		4 705	1667	200.0	35.0	2	9.0	1.7	0.3	168	2013	N	1							1			
Upbound	Domestic		3 266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2013		1		1								
Upbound	Domestic		3 189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2013		3		3								
Upbound	Domestic		4 000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2013	N	1							1			
Upbound	Domestic		4 000700	2290	200.0	35.0	8	12.0	1.6	6.4	250	2013	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2013	N	2			2							
Upbound	Domestic		4 000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2013	N	9			9							
Upbound	Domestic		4 745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2013		5			5							
Upbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	165	2013		1			1							
Upbound	Domestic		4 764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	2			2							
Upbound	Domestic		4 000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2013	N	1			1							
Upbound	Domestic		4 957	1665	200.0	35.0	2	9.0	1.4	0.6	186	2013	N	1							1			
Upbound	Domestic		3 000128	999999	95.3	30.3	10	10.0	10.0	0.0	400	2013	N	3		3								
Upbound	Domestic		4 764	1668	200.0	35.0	2	9.0	1.5	0.5	160	2013	N	1							1			
Upbound	Domestic		4 799	1886	200.0	35.0	2	10.0	1.5	0.5	150	2013	N	2							2			
Upbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2013	N	15			15							
Upbound	Domestic		4 764	1636	200.0	35.0	7	9.0	1.5	5.5	165	2013	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2013	N	10			10							
Upbound	Domestic		4 000823	2739	200.0	35.0	12	14.0	1.6	10.4	140	2013	N	4			4							
Upbound	Domestic		4 000705	1647	200.0	35.0	7	9.0	1.5	5.5	205	2013	N	1			1							
Upbound	Domestic		4 687	1605	195.0	35.0	9	9.5	0.5	8.5	146	2013	N	1			1							
Upbound	Domestic		4 745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2013	N	1			1							
Upbound	Domestic		4 000764	1541	200.0	35.0	7	9.0	1.6	5.4	143	2013	N	1			1							
Upbound	Domestic		4 764	2000	200.0	35.0	11	12.0	1.5	9.5	9999	2013	N	1			1							
Upbound	Domestic		3 258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2013		11		11								
Upbound	Domestic		4 764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2013	N	5							5			
Upbound	Domestic		4 000764	1705	200.0	35.0	2	10.0	1.5	0.5	139	2013	N	1							1			
Upbound	Domestic		4 687	1577	195.0	35.0	2	9.0	1.8	0.2	170	2013	N	1							1			
Upbound	Domestic		5 2700	2500	281.0	50.0	3	9.0	2.5	0.5	230	2013		2									2	
Upbound	Domestic		5 1597	3500	300.1	52.1	2	10.0	2.0	0.0	180	2013		2									2	
Upbound	Domestic		4 764	1521	200.0	35.0	2	9.0	1.9	0.1	225	2013	N	2							2			
Upbound	Domestic		4 687	1629	195.0	35.0	2	9.0	1.4	0.6	160	2013	N	1							1			
Upbound	Domestic		4 823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2013	N	7			7							
Upbound	Domestic		5 000814	1447	195.0	35.0	8	9.0	1.9	6.1	170	2013	N	1					1					
Upbound	Domestic		4 705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2013	N	1			1							
Upbound	Domestic		4 000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2013		8			8							
Upbound	Domestic		4 000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2013		1			1							
Upbound	Domestic		4 764	2187	200.0	35.0	9	12.0	1.7	7.3	240	2013		1			1							
Upbound	Domestic		4 823	2469	200.0	35.0	9	12.0	1.6	7.4	250	2013	N	1			1							
Upbound	Domestic		4 823	1643	200.0	35.0	12	10.0	1.5	10.5	9999	2013	N	1			1							
Upbound	Domestic		4 823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2013	N	1			1							
Upbound	Domestic		4 000764	1514	200.0	35.0	9	9.0	1.8	7.2	190	2013	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2013	N	2							2			
Upbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	120	2013		1							1			
Upbound	Domestic	3	265	999999	116.0	34.0	11	10.6	9.5	1.5	420	2013		1		1								
Upbound	Domestic	3	000223	999999	76.0	35.0	7	10.0	10.0	-3.0	499	2013		1		1								
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2013	N	1							1			
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	170	2013		1							1			
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2013	N	2			2							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2013	N	2			2							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2013	N	4			4							
Upbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2013	N	5			5							
Upbound	Domestic	4	802	2110	200.0	35.0	6	12.0	1.8	4.2	234	2013		1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2013		4			4							
Upbound	Domestic	4	000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2013	N	1			1							
Upbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2013	N	3			3							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2013	N	4			4							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2013		1			1							
Upbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2013	N	1			1							
Upbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	1			1							
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2013		3									3	
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2013	N	9							9			
Upbound	Domestic	4	000764	1800	200.0	35.0	2	9.0	2.0	0.0	130	2013	N	1							1			
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2013	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2013	N	3			3							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	5			5							
Upbound	Domestic	5	835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2013	N	4					4					
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2013	N	4			4							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2013	N	5			5							
Upbound	Domestic	4	000764	1615	200.0	35.0	9	11.0	1.8	7.2	170	2013		1			1							
Upbound	Domestic	5	812	1388	195.0	35.0	8	9.0	2.1	5.9	140	2013	N	2					2					
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2013	N	1			1							
Upbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2013	N	2			2							
Upbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.7	7.3	206	2013		1			1							
Upbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2013	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2013	N	1			1							
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2013	N	2			2							
Upbound	Domestic	4	470	1200	160.0	35.0	5	8.5	1.5	3.5	100	2013		5			5							
Upbound	Domestic	5	001632	3000	300.0	54.0	2	12.0	2.0	0.0	226	2013	N	4									4	
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2013	N	1							1			
Upbound	Domestic	4	705	1774	200.0	35.0	2	10.0	1.6	0.4	170	2013	N	1							1			
Upbound	Domestic	4	000764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2013	N	1							1			
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2013	N	5			5							
Upbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2013		3					3					
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	1.6	6.4	220	2013	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2013	N	2			2							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	224	2013	N	2			2							
Upbound	Domestic	5	1092	2100	175.0	54.0	1	8.5	1.3	-0.3	180	2013		2									2	
Upbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2013	N	1							1			
Upbound	Domestic	4	764	2000	200.0	35.0	2	12.0	1.5	0.5	9999	2013	N	1							1			
Upbound	Domestic	4	764	1886	200.0	35.0	2	10.0	1.5	0.5	150	2013	N	1							1			
Upbound	Domestic	4	000764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2013	N	2							2			
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2013		1			1							
Upbound	Domestic	4	680	2680	200.0	35.0	8	11.0	1.5	6.5	208	2013	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	5			5							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	11.0	1.5	9.5	208	2013	N	2			2							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2013	N	26			26							
Upbound	Domestic	4	764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2013	N	1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2013		16			16							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2013		11			11							
Upbound	Domestic	5	788	1488	195.0	35.0	9	9.0	2.5	6.5	140	2013	N	2					2					
Upbound	Domestic	4	688	1677	200.0	35.0	9	9.0	1.5	7.5	210	2013	N	1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2013		1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2013		1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2013	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2013	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	12.0	1.7	5.3	240	2013		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2013	N	1			1							
Upbound	Domestic	4	630	1450	195.0	35.0	8	8.0	1.5	6.5	136	2013	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.6	0.4	210	2013		3							3			
Upbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2013	N	1							1			
Upbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2013	N	4							4			
Upbound	Domestic	5	835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2013	N	3					3					
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2013	N	5			5							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2013	N	1			1							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	2			2							
Upbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2013		5			5							
Upbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2013		8			8							
Upbound	Domestic	4	705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2013	N	7			7							
Upbound	Domestic	4	823	2719	200.0	35.0	9	12.0	1.6	7.4	250	2013	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2013		4							4			
Upbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2013	N	1							1			
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2013		1									1	
Upbound	Domestic	4	000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2013		1							1			
Upbound	Domestic	4	000745	2235	200.0	35.0	8	12.0	2.0	6.0	216	2013	N	24			24							
Upbound	Domestic	4	573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2013		138			138							
Upbound	Domestic	4	564	1619	200.0	35.0	7	9.0	1.6	5.4	160	2013	N	3			3							
Upbound	Domestic	4	000764	1536	200.0	35.0	7	9.0	1.8	5.2	225	2013	N	1			1							
Upbound	Domestic	4	772	2415	200.0	35.0	11	13.0	1.5	9.5	130	2013	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2013	N	4			4							
Upbound	Domestic	4	799	1887	200.0	35.0	9	10.0	1.4	7.6	149	2013	N	3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2013	N	10			10							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2013	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2013	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2013	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	10	10.0	1.7	8.3	213	2013	N	1			1							
Upbound	Domestic	3	349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2013		2		2								
Upbound	Domestic	4	834	1701	195.0	35.0	2	10.0	1.7	0.3	191	2013	N	1							1			
Upbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.7	0.3	206	2013		1							1			
Upbound	Domestic	4	000745	2090	195.0	35.0	2	11.0	1.8	0.2	170	2013		1							1			
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2013	N	15			15							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2013	N	31			31							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2013	N	2			2							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2013		2			2							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2013		3			3							
Upbound	Domestic	5	761	1400	195.0	35.0	9	9.0	1.8	7.2	183	2013	N	1					1					
Upbound	Domestic	4	000782	1990	200.0	35.0	9	11.0	4.0	5.0	170	2013	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	9	11.0	1.9	7.1	206	2013		1			1							
Upbound	Domestic	4	000764	1560	200.0	35.0	11	9.0	3.0	8.0	9999	2013	N	2			2							
Upbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2013	N	1			1							
Upbound	Domestic	4	000823	1638	200.0	35.0	8	9.0	1.6	6.4	175	2013	N	1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2013	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2013	N	6							6			
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2013		4		4								
Upbound	Domestic	5	1619	4528	300.0	54.0	2	9.3	2.0	0.0	190	2013	N	1									1	
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2013	N	8			8							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2013	N	2			2							
Upbound	Domestic	4	764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2013	N	2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2013	N	1					1					
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2013	N	2			2							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2013		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2013	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2013	N	1			1							
Upbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2013	N	1			1							
Upbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	149	2013	N	1			1							
Upbound	Domestic	5	001619	4048	297.5	54.0	3	12.0	3.0	0.0	250	2013		10									10	
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2013	N	20			20							
Upbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2013	N	2			2							
Upbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2013	N	4			4							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2013	N	4			4							
Upbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2013	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	209	2013	N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	9	10.0	2.0	7.0	110	2013		5			5							
Upbound	Domestic	5	001619	3500	297.6	54.0	2	9.0	1.0	1.0	220	2013		2									2	
Upbound	Domestic	5	914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2013		10									10	
Upbound	Domestic	5	1861	5250	356.0	54.0	2	13.0	2.0	0.0	220	2013		7									7	
Upbound	Domestic	5	1803	4688	297.5	54.0	2	11.0	1.9	0.1	220	2013		4									4	
Upbound	Domestic	4	000764	1653	200.0	35.0	2	9.0	2.0	0.0	210	2013		2							2			
Upbound	Domestic	5	2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2013		1									1	
Upbound	Domestic	4	573	1500	195.0	35.0	10	10.0	2.0	8.0	110	2013		1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2013	N	3			3							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2013		1			1							
Upbound	Domestic	4	823	1800	200.0	35.0	12	10.0	1.5	10.5	180	2013	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2013	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2013		2			2							
Upbound	Domestic	4	000823	2161	200.0	35.0	7	12.0	1.8	5.2	9999	2013		1			1							
Upbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2013	N	1			1							
Upbound	Domestic	3	215	999999	100.0	32.0	9	10.5	8.5	0.5	450	2013		1		1								
Upbound	Domestic	3	209	999999	100.0	30.0	8	8.0	8.0	0.0	460	2013		1		1								
Upbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2013		26		26								
Upbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2013		6		6								
Upbound	Domestic	3	218	999999	82.0	32.0	7	8.1	7.1	-0.1	410	2013		4		4								
Upbound	Domestic	5	1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2013		4									4	
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2013		5									5	
Upbound	Domestic	5	1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2013		1									1	
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2013	N	1			1							
Upbound	Domestic	4	000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	10	10.0	1.5	8.5	139	2013	N	1			1							
Upbound	Domestic	5	775	1477	195.0	35.0	8	9.0	1.8	6.2	184	2013	N	1					1					
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2013		5									5	
Upbound	Domestic	4	764	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2013	N	6							6			
Upbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.6	0.4	191	2013	N	1							1			
Upbound	Domestic	4	000764	1650	200.0	35.0	10	12.0	1.5	8.5	208	2013	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2013	N	2			2							
Upbound	Domestic	4	823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2013	N	1			1							
Upbound	Domestic	4	764	1554	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	1			1							
Upbound	Domestic	5	766	1485	195.0	35.0	8	8.5	2.0	6.0	133	2013	N	1					1					
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2013	N	1			1							
Upbound	Domestic	4	1658	2304	200.0	35.0	6	12.0	1.5	4.5	240	2013		1			1							
Upbound	Domestic	3	000169	999999	88.9	30.0	9	9.0	9.0	0.0	428	2013		5		5								
Upbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2013	N	5							5			
Upbound	Domestic	4	823	1542	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	1							1			
Upbound	Domestic	4	000764	2300	200.0	35.0	8	12.0	1.6	6.4	226	2013	N	1			1							
Upbound	Domestic	5	890	1590	200.0	35.0	8	9.0	1.9	6.1	142	2013	N	9					9					
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2013		5			5							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	2.0	6.0	9999	2013	N	1			1							
Upbound	Domestic	4	823	2280	200.0	35.0	8	12.0	1.8	6.2	224	2013	N	1			1							
Upbound	Domestic	4	696	1643	200.0	35.0	2	9.0	1.5	0.5	192	2013	N	2							2			
Upbound	Domestic	5	001619	3270	297.0	54.0	1	10.0	0.6	0.4	280	2013		2									2	
Upbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2013		1		1								
Upbound	Domestic	4	000764	1651	200.0	35.0	2	10.0	1.8	0.2	206	2013		1							1			
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2013		1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2013	N	2			2							
Upbound	Domestic	4	000802	1705	195.0	35.0	10	10.0	1.5	8.5	140	2013	N	4			4							
Upbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2013	N	2			2							
Upbound	Domestic	4	000764	1566	200.0	35.0	11	9.0	3.0	8.0	9999	2013	N	1			1							
Upbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2013		2		2								
Upbound	Domestic	4	000764	1728	200.0	35.0	2	9.0	1.6	0.4	206	2013		1							1			
Upbound	Domestic	5	001754	4530	297.5	54.0	2	12.9	2.0	0.0	200	2013	N	2									2	
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2013		1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2013	N	24			24							
Upbound	Domestic	4	601	1400	195.0	35.0	7	10.0	2.0	5.0	110	2013		107			107							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.5	8.5	160	2013	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2013	N	3			3							
Upbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2013	N	1			1							
Upbound	Domestic	4	000764	1521	200.0	35.0	6	9.0	1.8	4.2	225	2013	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2013	N	3			3							
Upbound	Domestic	4	823	1652	200.0	35.0	8	9.0	1.4	6.6	235	2013	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2013	N	5			5							
Upbound	Domestic	4	964	2098	200.0	35.0	8	11.0	1.5	6.5	218	2013		1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2013		8			8							
Upbound	Domestic	4	000764	2187	200.0	35.0	8	12.0	1.7	6.3	210	2013		1			1							
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2013	N	1			1							
Upbound	Domestic	4	771	1660	200.0	35.0	9	9.0	1.4	7.6	218	2013	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2013		1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.5	7.5	165	2013	N	1			1							
Upbound	Domestic	5	788	1439	195.0	35.0	2	9.0	2.0	0.0	165	2013	N	1									1	
Upbound	Domestic	3	199	999999	150.2	44.2	7	10.8	9.3	-2.3	430	2013		1		1								
Upbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2013	N	1							1			
Upbound	Domestic	5	001619	3612	300.0	54.0	2	9.3	2.0	0.0	190	2013	N	1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2013	N	31			31							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2013	N	2			2							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2013	N	5			5							
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	191	2013	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2013		5			5							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2013		5			5							
Upbound	Domestic	4	000764	1705	200.0	35.0	10	10.0	1.5	8.5	140	2013	N	9			9							
Upbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2013	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2013	N	1			1							
Upbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2013	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2013	N	1			1							
Upbound	Domestic	4	000764	1637	200.0	35.0	9	9.0	1.7	7.3	199	2013		1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2013	N	1			1							
Upbound	Domestic	5	002800	2350	282.0	54.0	2	12.0	2.0	0.0	300	2013		6									6	
Upbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	223	2013	N	1							1			
Upbound	Domestic	4	000764	1506	200.0	35.0	2	9.0	1.9	0.1	206	2013		2							2			
Upbound	Domestic	4	764	1608	200.0	35.0	2	9.0	1.5	0.5	225	2013	N	1							1			
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2013	N	15			15							
Upbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2013		5			5							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2013		14			14							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2013		3			3							
Upbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2013	N	3			3							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2013	N	5			5							
Upbound	Domestic	4	000764	2007	200.0	35.0	9	10.0	3.0	6.0	9999	2013	N	1			1							
Upbound	Domestic	4	000764	1615	200.0	35.0	9	12.0	1.8	7.2	170	2013		1			1							
Upbound	Domestic	4	000745	2292	200.0	35.0	8	12.0	2.0	6.0	216	2013	N	1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	180	2013		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	2	9.0	1.8	0.2	189	2013	N	2							2			
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2013	N	1							1			
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2013		12			12							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2013	N	4			4							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2013		4			4							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2013	N	2					2					
Upbound	Domestic	4	000764	1608	200.0	35.0	7	9.0	1.7	5.3	195	2013	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	2	12.0	2.0	0.0	210	2013		1							1			
Upbound	Domestic	4	705	1674	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2013	N	3			3							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2013	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2013	N	1			1							
Upbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2013	N	2			2							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2013	N	1			1							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2013		2			2							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2013	N	3			3							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2013		2			2							
Upbound	Domestic	4	764	1548	200.0	35.0	9	9.0	1.7	7.3	212	2013	N	4			4							
Upbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	169	2013	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2013	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	210	2013	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2013		5							5			
Upbound	Domestic	5	001619	3891	297.5	54.0	2	10.0	1.7	0.3	179	2013		2									2	
Upbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2013	N	1							1			
Upbound	Domestic	4	000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2013	N	1							1			
Upbound	Domestic	5	000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2013	N	6					6					
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2013		10			10							
Upbound	Domestic	4	000764	1652	200.0	35.0	7	9.0	2.0	5.0	215	2013	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	12	10.0	1.5	10.5	199	2013	N	1			1							
Upbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2013		1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2013	N	2			2							
Upbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2013	N	1			1							
Upbound	Domestic	4	705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2013	N	2			2							
Upbound	Domestic	4	000823	2792	200.0	35.0	9	12.0	1.7	7.3	250	2013	N	1			1							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2013	N	2			2							
Upbound	Domestic	4	546	1500	195.0	35.0	2	9.0	1.0	1.0	190	2013	N	1							1			
Upbound	Domestic	3	000177	999999	85.8	32.0	9	9.0	9.0	0.0	416	2013		5		5								
Upbound	Domestic	4	764	1548	200.0	35.0	2	9.0	1.7	0.3	212	2013	N	1							1			
Upbound	Domestic	4	745	1485	195.0	35.0	2	9.0	1.8	0.2	225	2013	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2013	N	2			2							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2013		6			6							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2013	N	1			1							
Upbound	Domestic	4	764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2013	N	2			2							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2013		3			3							
Upbound	Domestic	4	764	1990	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	2			2							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2013	N	4			4							
Upbound	Domestic	4	000745	1705	195.0	35.0	10	10.0	1.6	8.4	139	2013	N	1			1							
Upbound	Domestic	4	675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2013	N	2			2							
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2013		18									18	
Upbound	Domestic	5	1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2013		5									5	
Upbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2013		25		25								
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2013		7									7	
Upbound	Domestic	4	727	1772	200.0	35.0	2	10.0	1.5	0.5	148	2013	N	4							4			
Upbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2013	N	12			12							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2013	N	8			8							
Upbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	16			16							
Upbound	Domestic	4	687	1501	195.0	35.0	10	12.0	1.5	8.5	186	2013	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2013	N	2			2							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2013		7			7							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2013	N	8			8							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2013		1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2013	N	2			2							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2013		1			1							
Upbound	Domestic	4	470	1200	160.0	35.0	7	8.5	1.5	5.5	100	2013		1			1							
Upbound	Domestic	5	1754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2013		1									1	
Upbound	Domestic	5	1697	1800	296.7	54.0	2	9.0	1.6	0.4	90	2013		1									1	
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2013	N	11			11							
Upbound	Domestic	5	795	1475	195.0	35.0	8	9.0	1.8	6.2	178	2013	N	1					1					
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2013		4			4							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2013	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2013	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	205	2013		1			1							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2013	N	3					3					
Upbound	Domestic	4	764	1673	200.0	35.0	9	9.0	1.4	7.6	165	2013	N	1			1							
Upbound	Domestic	5	000735	1511	200.0	35.0	6	9.2	2.0	4.0	179	2013	N	0					0					
Upbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2013	N	1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2013		1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2013	N	1			1							
Upbound	Domestic	4	000764	1765	200.0	35.0	10	13.0	2.0	8.0	165	2013		2			2							
Upbound	Domestic	4	783	1450	195.0	35.0	2	9.0	2.0	0.0	190	2013	N	1							1			
Upbound	Domestic	4	799	1887	200.0	35.0	2	10.0	1.4	0.6	149	2013	N	1							1			
Upbound	Domestic	4	000764	1910	200.0	35.0	3	13.0	3.0	0.0	206	2013		1							1			
Upbound	Domestic	5	001841	3200	290.0	54.0	2	10.0	2.0	0.0	220	2013		1									1	
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2013	N	4			4							
Upbound	Domestic	4	764	1527	200.0	35.0	7	9.0	1.8	5.2	205	2013	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2013	N	8			8							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2013	N	9							9			
Upbound	Domestic	4	764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2013	N	1			1							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2013	N	4			4							
Upbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2013	N	1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2013		3			3							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2013		3			3							
Upbound	Domestic	4	764	1555	200.0	35.0	9	9.0	1.6	7.4	130	2013	N	1			1							
Upbound	Domestic	4	745	2345	195.0	35.0	9	13.0	1.6	7.4	209	2013	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2013	N	1			1							
Upbound	Domestic	4	687	1505	195.0	35.0	6	9.0	1.8	4.2	200	2013	N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2013	N	1			1							
Upbound	Domestic	5	1619	4048	297.5	54.0	2	11.5	2.0	0.0	190	2013		10									10	
Upbound	Domestic	3	405	999999	138.0	44.0	9	9.0	8.5	0.5	380	2013	N	12		12								
Upbound	Domestic	4	705	1652	200.0	35.0	2	9.0	1.4	0.6	194	2013	N	2							2			
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2013		1									1	
Upbound	Domestic	4	573	1500	195.0	35.0	7	10.0	2.0	5.0	110	2013		269			269							
Upbound	Domestic	4	573	1500	195.0	35.0	6	10.0	2.0	4.0	110	2013		79			79							
Upbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	6			6							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2013	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2013	N	4			4							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2013		2			2							
Upbound	Domestic	4	705	1877	200.0	35.0	10	10.0	1.5	8.5	146	2013	N	1			1							
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2013	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	13.0	1.5	9.5	208	2013	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2013	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		5 000735	1511	200.0	35.0	9	9.2	2.0	7.0	179	2013	N	1					1					
Upbound	Domestic		4 698	1500	195.0	35.0	2	9.0	1.6	0.4	180	2013	N	1							1			
Upbound	Domestic		4 745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2013	N	5							5			
Upbound	Domestic		4 000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2013	N	15							15			
Upbound	Domestic		3 258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2013		3		3								
Upbound	Domestic		4 687	1626	195.0	35.0	2	9.0	1.6	0.4	146	2013	N	1							1			
Upbound	Domestic		3 000177	999999	85.8	32.0	8	10.0	8.0	0.0	480	2013		1		1								
Upbound	Domestic		4 000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2013	N	2			2							
Upbound	Domestic		4 000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	2			2							
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2013	N	1			1							
Upbound	Domestic		4 000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2013	N	3			3							
Upbound	Domestic		4 764	1855	200.0	35.0	8	10.0	1.5	6.5	165	2013		3			3							
Upbound	Domestic		4 705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2013	N	7			7							
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2013		5			5							
Upbound	Domestic		4 764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2013		2			2							
Upbound	Domestic		4 687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2013		1			1							
Upbound	Domestic		3 163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2013		25		25								
Upbound	Domestic		5 834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2013		7									7	
Upbound	Domestic		5 1876	3300	297.5	54.0	2	9.6	1.5	0.5	180	2013		3									3	
Upbound	Domestic		4 770	1889	200.0	35.0	2	10.0	1.5	0.5	149	2013	N	3							3			
Upbound	Domestic		5 1861	5250	356.0	54.0	11	13.0	2.0	9.0	220	2013		5					5					
Upbound	Domestic		4 764	1617	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2013	N	3			3							
Upbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2013	N	12			12							
Upbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	3			3							
Upbound	Domestic		4 834	1701	195.1	35.0	9	10.0	1.7	7.3	210	2013	N	1			1							
Upbound	Domestic		4 764	1530	200.0	35.0	7	9.0	1.6	5.4	154	2013	N	1			1							
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2013	N	2			2							
Upbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2013		5			5							
Upbound	Domestic		4 000764	2300	200.0	35.0	10	13.0	1.6	8.4	165	2013		1			1							
Upbound	Domestic		4 000260	1075	172.0	54.0	12	12.0	6.0	6.0	550	2013	N	1			1							
Upbound	Domestic		4 772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2013	N	14			14							
Upbound	Domestic		4 000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2013	N	3							3			
Upbound	Domestic		4 799	1887	200.0	35.0	9	10.0	1.5	7.5	149	2013	N	1			1							
Upbound	Domestic		4 799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2013	N	1			1							
Upbound	Domestic		4 764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2013	N	1			1							
Upbound	Domestic		4 687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2013	N	1			1							
Upbound	Domestic		4 736	1654	200.0	35.0	2	9.0	1.5	0.5	187	2013	N	1							1			
Upbound	Domestic		5 1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2013		3									3	
Upbound	Domestic		3 169	999999	90.0	30.0	7	8.6	8.0	-1.0	400	2013		2		2								
Upbound	Domestic		4 000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	2							2			
Upbound	Domestic		5 1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2013		2									2	
Upbound	Domestic		4 764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2013	N	1							1			
Upbound	Domestic		4 823	2748	200.0	35.0	8	14.0	1.6	6.4	215	2013	N	1			1							
Upbound	Domestic		4 700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2013	N	6			6							
Upbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2013	N	9			9							
Upbound	Domestic		4 933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2013	N	17			17							
Upbound	Domestic		4 000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2013	N	7			7							
Upbound	Domestic		5 1754	4240	297.5	54.0	9	11.0	1.5	7.5	200	2013	N	2					2					
Upbound	Domestic		4 823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2013	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	11	14.0	1.6	9.4	140	2013	N	2			2							
Upbound	Domestic		5 835	1426	195.0	35.0	8	12.0	3.0	5.0	136	2013	N	4					4					
Upbound	Domestic		4 940	1500	195.0	35.0	9	9.6	1.8	7.2	150	2013	N	1			1							
Upbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	212	2013	N	1			1							
Upbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	9999	2013	N	1			1							
Upbound	Domestic		4 000823	1838	200.0	35.0	8	10.0	1.7	6.3	191	2013	N	1			1							
Upbound	Domestic		3 249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2013		8		8								
Upbound	Domestic		3 201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2013		1		1								
Upbound	Domestic		3 42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2013		271		271								
Upbound	Domestic		5 750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2013	N	4									4	
Upbound	Domestic		4 799	1893	200.0	35.0	2	10.0	1.5	0.5	149	2013	N	2							2			
Upbound	Domestic		4 000764	2090	200.0	35.0	2	10.0	1.8	0.2	170	2013		1							1			
Upbound	Domestic		5 001622	2500	270.0	53.0	2	9.0	2.0	0.0	220	2013		2									2	
Upbound	Domestic		5 1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2013		1									1	
Upbound	Domestic		4 802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2013	N	4			4							
Upbound	Domestic		4 000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	1			1							
Upbound	Domestic		4 764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2013	N	2			2							
Upbound	Domestic		4 764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2013	N	3			3							
Upbound	Domestic		4 935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2013	N	2			2							
Upbound	Domestic		4 764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2013	N	2			2							
Upbound	Domestic		4 000764	2300	200.0	35.0	10	13.0	1.5	8.5	165	2013		1			1							
Upbound	Domestic		4 000764	1534	200.0	35.0	10	9.0	1.7	8.3	199	2013	N	1			1							
Upbound	Domestic		4 705	1667	200.0	35.0	9	9.0	1.7	7.3	168	2013	N	2			2							
Upbound	Domestic		4 000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2013	N	1			1							
Upbound	Domestic		4 823	1751	200.0	35.0	2	10.0	1.7	0.3	190	2013	N	1							1			
Upbound	Domestic		5 2917	2400	295.0	52.5	2	9.0	2.0	0.0	320	2013		1									1	
Upbound	Domestic		5 001754	4186	297.5	54.0	2	11.0	2.0	0.0	179	2013	N	2									2	
Upbound	Domestic		4 764	1533	200.0	35.0	2	9.0	1.7	0.3	170	2013	N	1							1			
Upbound	Domestic		3 000148	999999	80.6	30.0	8	10.0	8.0	0.0	470	2013		1		1								
Upbound	Domestic		5 2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2013		1									1	
Upbound	Domestic		4 000764	1506	200.0	35.0	2	11.0	1.8	0.2	206	2013		2							2			
Upbound	Domestic		4 000764	2131	200.0	35.0	2	11.0	1.9	0.1	206	2013		1							1			
Upbound	Domestic		4 000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2013	N	3			3							
Upbound	Domestic		5 000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2013	N	1					1					
Upbound	Domestic		4 933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2013	N	11			11							
Upbound	Domestic		4 000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2013	N	1			1							
Upbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2013		4			4							
Upbound	Domestic		4 000724	1532	200.0	35.0	7	9.0	1.7	5.3	160	2013	N	1			1							
Upbound	Domestic		4 705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2013	N	5			5							
Upbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2013	N	1			1							
Upbound	Domestic		3 390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2013		25		25								
Upbound	Domestic		5 716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2013	N	1									1	
Upbound	Domestic		3 200	999999	95.0	30.0	7	8.5	7.0	0.0	300	2013	N	3		3								
Upbound	Domestic		5 001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2013		3									3	
Upbound	Domestic		4 000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2013	N	4							4			
Upbound	Domestic		4 000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2013	N	3			3							
Upbound	Domestic		4 933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2013	N	12			12							
Upbound	Domestic		4 764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2013	N	3			3							
Upbound	Domestic		4 000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2013	N	4			4							
Upbound	Domestic		4 000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2013		2			2							
Upbound	Domestic		4 000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2013	N	5			5							
Upbound	Domestic		4 764	1648	200.0	35.0	13	12.0	1.5	11.5	186	2013	N	1			1							
Upbound	Domestic		4 764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2013	N	3			3							
Upbound	Domestic		4 000706	1569	200.0	35.0	7	9.0	1.6	5.4	205	2013	N	1			1							
Upbound	Domestic		4 1009	1522	195.0	35.0	8	9.0	1.6	6.4	200	2013	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	9	9.0	1.6	7.4	206	2013		1			1							
Upbound	Domestic		3 000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2013		28		28								
Upbound	Domestic		3 166	999999	95.0	28.0	7	7.0	6.5	0.5	400	2013		4		4								
Upbound	Domestic		5 001455	3200	295.0	54.0	2	10.0	2.0	0.0	170	2013		3									3	
Upbound	Domestic		5 001754	3390	297.5	54.0	2	11.0	2.0	0.0	180	2013		1									1	
Upbound	Domestic		4 000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2013	N	1							1			
Upbound	Domestic		4 764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2013	N	7			7							
Upbound	Domestic		4 000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2013	N	1			1							
Upbound	Domestic		4 705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2013		2			2							
Upbound	Domestic		4 770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2013	N	2			2							
Upbound	Domestic		5 835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2013		1					1					

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	185	2013	N	1			1							
Upbound	Domestic	5	001754	4531	297.5	54.0	2	10.0	1.9	0.1	220	2013		4									4	
Upbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2013		1		1								
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2013	N	3			3							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2013		5			5							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2013	N	8			8							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2013		2			2							
Upbound	Domestic	4	000719	1665	200.0	35.0	9	9.0	2.0	7.0	130	2013		1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2013	N	2			2							
Upbound	Domestic	4	802	2107	195.0	35.0	8	12.0	1.6	6.4	214	2013	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2013	N	1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2013		36		36								
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2013		5									5	
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2013		1									1	
Upbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2013	N	1							1			
Upbound	Domestic	5	000825	1422	195.0	35.0	8	9.0	1.1	6.9	194	2013	N	2					2					
Upbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2013	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	208	2013	N	2			2							
Upbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2013	N	3			3							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2013	N	4			4							
Upbound	Domestic	4	000700	1660	200.0	35.0	8	9.0	1.5	6.5	190	2013	N	1			1							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	217	2013	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2013		1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2013	N	1			1							
Upbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2013	N	1							1			
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2013		48		48								
Upbound	Domestic	5	001760	4190	298.5	54.0	2	11.0	2.0	0.0	220	2013	N	3									3	
Upbound	Domestic	4	705	1572	200.0	35.0	2	9.0	1.5	0.5	223	2013	N	1							1			
Upbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	147	2013	N	3							3			
Upbound	Domestic	5	1619	3660	297.5	54.0	2	11.0	2.0	0.0	160	2013		1									1	
Upbound	Domestic	4	764	1635	200.0	35.0	2	9.0	1.5	0.5	165	2013	N	1							1			
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2013	N	6			6							
Upbound	Domestic	4	823	2298	200.0	35.0	9	12.0	1.5	7.5	225	2013	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2013		2			2							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2013		8			8							
Upbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	3			3							
Upbound	Domestic	4	705	1877	200.0	35.0	9	10.0	1.5	7.5	146	2013	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	2			2							
Upbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2013	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2013	N	1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2013		24		24								
Upbound	Domestic	5	1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2013		4									4	
Upbound	Domestic	5	001632	4662	300.0	54.0	2	11.9	2.2	-0.2	172	2013	N	4									4	
Upbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2013		2							2			
Upbound	Domestic	5	1876	3400	297.5	54.0	2	10.0	2.0	0.0	170	2013		3									3	
Upbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	2			2							
Upbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2013	N	3			3							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2013	N	3			3							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2013		3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	27			27							
Upbound	Domestic	4	000764	1600	200.0	35.0	7	9.0	1.6	5.4	165	2013		1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2013	N	3			3							
Upbound	Domestic	4	764	2098	200.0	35.0	7	11.0	1.5	5.5	218	2013		1			1							
Upbound	Domestic	4	705	1663	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2013	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	5	9.0	2.0	3.0	130	2013	N	1			1							
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2013	N	1							1			
Upbound	Domestic	4	000764	1616	200.0	35.0	11	9.0	3.0	8.0	9999	2013	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	3			3							
Upbound	Domestic	4	960	1635	200.0	35.0	2	9.0	1.6	0.4	177	2013	N	1							1			
Upbound	Domestic	5	001619	3891	297.5	54.0	2	10.5	1.5	0.5	175	2013		5									5	
Upbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2013		242		242								
Upbound	Domestic	4	764	1626	200.0	35.0	2	9.0	1.5	0.5	165	2013	N	1							1			
Upbound	Domestic	5	001632	4662	300.0	54.0	2	11.9	2.2	-0.2	189	2013	N	2									2	
Upbound	Domestic	5	001754	3665	297.5	54.0	2	11.0	2.0	0.0	180	2013		1									1	
Upbound	Domestic	4	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2013	N	1							1			
Upbound	Domestic	4	764	1497	200.0	35.0	2	9.0	1.9	0.1	205	2013	N	1							1			
Upbound	Domestic	5	1961	3500	297.5	54.0	2	8.5	2.0	0.0	100	2013		1									1	
Upbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.5	7.5	160	2013	N	4			4							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2013		2			2							
Upbound	Domestic	5	000705	2100	200.0	35.0	8	11.0	2.0	6.0	9999	2013	N	1					1					
Upbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2013		1			1							
Upbound	Domestic	4	000823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2013	N	1			1							
Upbound	Domestic	5	001619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2013		5									5	
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2013		2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2013	N	1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2013	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2013		9			9							
Upbound	Domestic	4	000719	1665	200.0	35.0	7	9.0	2.0	5.0	130	2013		1			1							
Upbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2013	N	2			2							
Upbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2013	N	4			4							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2013	N	1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2013		1			1							
Upbound	Domestic	4	700	1504	195.0	35.0	2	9.0	1.6	0.4	206	2013	N	1							1			
Upbound	Domestic	4	879	1455	195.0	35.0	2	9.0	2.0	0.0	172	2013	N	1							1			
Upbound	Domestic	5	001754	4972	297.5	54.0	2	12.1	1.5	0.5	176	2013	N	6									6	
Upbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2013		2		2								
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2013	N	33			33							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2013	N	5			5							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	160	2013	N	2			2							
Upbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2013	N	6			6							
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2013		3			3							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2013		4			4							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2013	N	7			7							
Upbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2013	N	3			3							
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	1			1							
Upbound	Domestic	4	764	1626	200.0	35.0	6	9.0	1.5	4.5	165	2013	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2013	N	9							9			
Upbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	216	2013	N	1							1			
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2013	N	10			10							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2013	N	3			3							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2013	N	2			2							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2013	N	8			8							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2013	N	6			6							
Upbound	Domestic	4	000764	1562	200.0	35.0	11	9.0	3.0	8.0	9999	2013	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	125	2013		1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	10	10.0	1.5	8.5	139	2013	N	1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	10	10.0	1.6	8.4	170	2013	N	1			1							
Upbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2013		1			1							
Upbound	Domestic	4	000705	1699	200.0	35.0	7	9.0	1.2	5.8	145	2013	N	1			1							
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2013		5									5	
Upbound	Domestic	4	000782	1990	200.0	35.0	2	9.0	1.5	0.5	170	2013	N	2							2			
Upbound	Domestic	4	764	1990	200.0	35.0	2	9.0	1.5	0.5	170	2013	N	1							1			
Upbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2013	N	4							4			
Upbound	Domestic	5	001637	3390	297.5	54.0	2	11.0	2.0	0.0	160	2013		2									2	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2013	N	14			14							
Upbound	Domestic	4	862	1736	195.0	35.0	8	10.0	2.0	6.0	192	2013	N	3			3							
Upbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2013	N	2			2							
Upbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2013	N	4			4							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2013	N	1			1							
Upbound	Domestic	4	688	1680	200.0	35.0	9	9.0	1.5	7.5	210	2013	N	2			2							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2013		4			4							
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2013	N	1			1							
Upbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2013	N	6			6							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2013		6			6							
Upbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2013	N	1							1			
Upbound	Domestic	4	000764	1539	200.0	35.0	7	9.0	1.7	5.3	225	2013	N	1			1							
Upbound	Domestic	4	698	1475	195.0	35.0	2	9.0	1.6	0.4	189	2013	N	1							1			
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2013		3		3								
Upbound	Domestic	3	000067	999999	68.9	30.0	10	10.0	10.0	0.0	440	2013		5		5								
Upbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2013		178		178								
Upbound	Domestic	4	933	1527	195.0	35.0	2	11.0	1.5	0.5	199	2013	N	1							1			
Upbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2013	N	2							2			
Upbound	Domestic	4	000764	1653	200.0	35.0	2	8.0	2.0	0.0	210	2013	N	1							1			
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2013		4				4						
Downbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2013	N	1				1						
Downbound	Domestic	5	001754	4531	297.5	54.0	7	10.0	1.9	5.1	220	2013		1						1				
Downbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2013	N	3				3						
Downbound	Domestic	4	764	1504	200.0	35.0	7	9.0	1.8	5.2	189	2013	N	1				1						
Downbound	Domestic	5	788	1439	195.0	35.0	8	9.0	2.0	6.0	165	2013	N	1						1				
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2013		2				2						
Downbound	Domestic	4	196	541	110.0	30.0	7	6.6	1.0	6.0	70	2013	N	2				2						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2013		3				3						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2013	N	4				4						
Downbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2013		1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2013	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2013		1				1						
Downbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2013	N	1				1						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	2.0	10.0	9999	2013	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	130	2013	N	1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	2	9.0	1.5	0.5	210	2013	N	1								1		
Downbound	Domestic	5	001619	3142	297.0	54.0	10	10.0	0.6	9.4	280	2013		7						7				
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2013	N	3				3						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	6				6						
Downbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2013	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2013	N	2				2						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2013	N	4				4						
Downbound	Domestic	5	001754	4972	297.5	54.0	8	12.1	1.5	6.5	176	2013	N	2						2				
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	1.5	7.5	192	2013	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2013		4				4						
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2013		3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2013	N	10				10						
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2013		1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	9	9.0	1.6	7.4	225	2013	N	2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2013	N	3				3						
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2013	N	1				1						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2013	N	2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2013	N	2								2		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	10.0	3.0	-1.0	216	2013	N	1								1		
Downbound	Domestic	3	110	999999	56.0	22.0	6	7.0	6.0	0.0	260	2013		1		1								
Downbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2013	N	1								1		
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2013	N	1								1		
Downbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2013	N	1								1		
Downbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2013	N	3				3						
Downbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2013		3				3						
Downbound	Domestic	4	688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2013	N	1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2013	N	1				1						
Downbound	Domestic	4	000823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2013		1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	160	2013	N	2				2						
Downbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2013	N	3				3						
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2013		1						1				
Downbound	Domestic	4	687	1534	195.0	35.0	9	9.0	1.8	7.2	169	2013	N	1				1						
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2013		29		29								
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2013		3		3								
Downbound	Domestic	3	414	999999	110.0	32.0	8	9.0	7.5	0.5	450	2013	N	1		1								
Downbound	Domestic	4	687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2013	N	1								1		
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2013	N	2				2						
Downbound	Domestic	5	1891	3100	281.7	54.0	11	9.0	2.0	9.0	180	2013		4						4				
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2013	N	1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2013	N	2				2						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2013	N	4				4						
Downbound	Domestic	4	000764	1610	200.0	35.0	12	9.0	3.0	9.0	9999	2013	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2013		1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	214	2013		1				1						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	3				3						
Downbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	206	2013		1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	10.0	1.8	7.2	170	2013		1				1						
Downbound	Domestic	5	1876	3400	297.5	54.0	9	10.0	2.0	7.0	170	2013		2						2				
Downbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2013	N	1				1						
Downbound	Domestic	4	000764	1616	200.0	35.0	12	9.0	3.0	9.0	9999	2013	N	1				1						
Downbound	Domestic	3	79	999999	95.0	30.0	8	10.5	8.0	0.0	490	2013	N	1		1								
Downbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2013		1										1
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2013	N	17								17		
Downbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2013		4				4						
Downbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2013	N	9				9						
Downbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2013	N	2				2						
Downbound	Domestic	4	000764	1541	200.0	35.0	6	9.0	1.8	4.2	225	2013	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2013	N	1				1						
Downbound	Domestic	4	848	1512	195.0	35.0	9	9.0	1.5	7.5	223	2013	N	1				1						
Downbound	Domestic	4	675	1506	195.0	35.0	9	9.0	1.5	7.5	155	2013	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2013		1				1						
Downbound	Domestic	4	764	190	200.0	35.0	9	11.0	4.0	5.0	170	2013	N	1				1						
Downbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2013		12		12								
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2013		5		5								
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2013	N	2								2		
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2013	N	1										1
Downbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2013	N	1								1		
Downbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2013		2		2								
Downbound	Domestic	5	001619	3270	297.0	54.0	9	10.0	0.6	8.4	280	2013		2						2				
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	1.5	8.5	180	2013		3						3				
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2013	N	9				9						
Downbound	Domestic	4	933	1527	195.0	35.0	9	9.0	1.5	7.5	199	2013	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2013		2				2						
Downbound	Domestic	5	001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2013		3						3				
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2013		8				8						
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2013		2				2						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2013		1						1				
Downbound	Domestic	4	687	1494	195.0	35.0	8	9.0	1.7	6.3	166	2013	N	1				1						
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2013	N	4								4		
Downbound	Domestic	4	698	1475	195.0	35.0	8	9.0	1.6	6.4	189	2013	N	1				1						
Downbound	Domestic	5	1619	3891	297.5	54.0	8	10.5	1.5	6.5	175	2013		1						1				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	1051	1650	200.0	35.0	8	9.0	1.0	7.0	190	2013	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2013		3				3						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2013	N	1				1						
Downbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2013	N	1				1						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2013	N	1				1						
Downbound	Domestic	5	001918	3100	297.5	54.0	10	10.3	2.0	8.0	193	2013		1						1				
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2013		16		16								
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2013		23								23		
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2013		2		2								
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2013	N	2								2		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2013		1								1		
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2013		1		1								
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2013	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2013	N	2				2						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2013	N	2				2						
Downbound	Domestic	5	2476	2500	310.0	50.0	9	9.0	2.5	6.5	230	2013		3						3				
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2013		6				6						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2013		1				1						
Downbound	Domestic	5	001632	3000	300.0	54.0	9	12.0	2.0	7.0	189	2013	N	1						1				
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2013	N	3				3						
Downbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2013		1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2013	N	1				1						
Downbound	Domestic	4	723	1875	200.0	35.0	8	10.0	1.7	6.3	163	2013	N	1				1						
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2013		1		1								
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2013	N	6										6
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	191	2013	N	1								1		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2013	N	3										3
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2013	N	2								2		
Downbound	Domestic	5	001619	3517	297.0	54.0	9	10.0	0.6	8.4	280	2013		1						1				
Downbound	Domestic	5	001619	3891	297.5	54.0	8	10.5	1.5	6.5	175	2013		1						1				
Downbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2013		2				2						
Downbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2013	N	9				9						
Downbound	Domestic	4	000764	1850	200.0	35.0	9	10.0	1.5	7.5	191	2013	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	10	12.0	1.5	8.5	165	2013		1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2013		10				10						
Downbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2013		2				2						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2013	N	11				11						
Downbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2013	N	1				1						
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2013	N	4				4						
Downbound	Domestic	5	001622	2500	270.0	53.0	9	9.0	2.0	7.0	220	2013		1						1				
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2013	N	17								17		
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2013	N	2								2		
Downbound	Domestic	5	000825	1422	195.0	35.0	2	9.0	1.1	0.9	194	2013	N	2										2
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2013	N	3										3
Downbound	Domestic	4	000687	1490	195.0	35.0	2	9.0	1.8	0.2	205	2013	N	1								1		
Downbound	Domestic	3	000262	999999	109.8	34.0	6	8.0	6.0	0.0	480	2013	N	1		1								
Downbound	Domestic	3	000433	637	136.0	40.0	8	10.3	8.6	-0.6	420	2013		1		1								
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2013	N	2								2		
Downbound	Domestic	5	002800	2350	282.0	54.0	9	12.0	2.0	7.0	300	2013		6						6				
Downbound	Domestic	5	1631	3125	252.5	50.0	6	10.0	1.9	4.1	220	2013		1						1				
Downbound	Domestic	4	783	1450	195.0	35.0	8	9.0	2.0	6.0	190	2013	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2013	N	1				1						
Downbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2013		9				9						
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2013	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	9999	2013		1				1						
Downbound	Domestic	4	000764	1625	200.0	35.0	12	9.0	3.0	9.0	9999	2013	N	1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2013		31								31		
Downbound	Domestic	5	812	1432	195.0	35.0	2	9.0	1.1	0.9	142	2013	N	1										1
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2013		1		1								
Downbound	Domestic	4	000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2013	N	1								1		
Downbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	1								1		
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2013		16						16				
Downbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	9				9						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2013	N	2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	10	11.0	1.5	8.5	199	2013	N	1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2013	N	5				5						
Downbound	Domestic	5	001455	3200	295.0	54.0	9	10.0	2.0	7.0	170	2013		3						3				
Downbound	Domestic	5	001637	3390	297.5	54.0	10	11.0	2.0	8.0	160	2013		13						13				
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2013	N	2				2						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2013		5				5						
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2013	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.7	6.3	206	2013		1				1						
Downbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	183	2013	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2013	N	1				1						
Downbound	Domestic	4	862	1725	195.0	35.0	2	10.0	2.0	0.0	192	2013	N	1								1		
Downbound	Domestic	4	000705	1699	200.0	35.0	2	9.0	1.2	0.8	145	2013	N	1								1		
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2013		3				3						
Downbound	Domestic	5	001632	4662	300.0	54.0	9	11.9	2.2	6.8	172	2013	N	6						6				
Downbound	Domestic	4	764	1552	200.0	35.0	7	9.0	1.5	5.5	163	2013	N	1				1						
Downbound	Domestic	5	001632	4662	300.0	54.0	9	11.9	2.2	6.8	189	2013	N	2						2				
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2013		8				8						
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2013	N	7				7						
Downbound	Domestic	4	764	1546	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	1				1						
Downbound	Domestic	5	2099	4809	356.0	54.0	8	11.0	0.6	7.4	280	2013		1						1				
Downbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2013	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2013	N	1				1						
Downbound	Domestic	4	000764	1857	200.0	35.0	9	10.0	1.5	7.5	191	2013	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2013	N	29								29		
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2013	N	4								4		
Downbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2013	N	1								1		
Downbound	Domestic	4	000764	1568	200.0	35.0	2	9.0	1.6	0.4	204	2013	N	2								2		
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2013		1								1		
Downbound	Domestic	4	000823	1634	200.0	35.0	2	9.0	1.5	0.5	175	2013	N	1								1		
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2013	N	2				2						
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2013		1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2013		5				5						
Downbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2013	N	1				1						
Downbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	170	2013	N	3				3						
Downbound	Domestic	5	750	1490	195.0	35.0	9	9.0	2.0	7.0	170	2013	N	4						4				
Downbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2013	N	1				1						
Downbound	Domestic	4	764	1497	200.0	35.0	8	9.0	1.9	6.1	205	2013	N	1				1						
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2013	N	4								4		
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2013	N	4								4		
Downbound	Domestic	4	764	1854	200.0	35.0	2	10.0	1.6	0.4	224	2013	N	1								1		
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2013		2						2				
Downbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2013	N	6				6						
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2013	N	2				2						
Downbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2013	N	2				2						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2013		4						4				
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2013		1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2013	N	1				1						
Downbound	Domestic	4	000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2013		2				2						
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2013	N	3								3		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2013	N	23								23		
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2013		3		3								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic		4 000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2013	N	1				1						
Downbound	Domestic		4 764	2077	200.0	35.0	13	12.0	1.5	11.5	215	2013	N	2				2						
Downbound	Domestic		4 823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2013	N	10				10						
Downbound	Domestic		4 000764	1607	200.0	35.0	11	9.0	3.0	8.0	9999	2013	N	1				1						
Downbound	Domestic		4 705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2013		7				7						
Downbound	Domestic		5 1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2013		1						1				
Downbound	Domestic		4 764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2013	N	1				1						
Downbound	Domestic		4 618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2013		1				1						
Downbound	Domestic		5 1724	3300	297.6	54.1	10	10.0	2.0	8.0	180	2013		1						1				
Downbound	Domestic		4 000764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2013	N	1				1						
Downbound	Domestic		4 000764	1765	200.0	35.0	12	11.0	2.0	10.0	165	2013		1				1						
Downbound	Domestic		4 745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2013	N	1								1		
Downbound	Domestic		4 470	1200	160.0	35.0	2	8.5	1.5	0.5	100	2013		22								22		
Downbound	Domestic		4 856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2013	N	2								2		
Downbound	Domestic		5 1816	5450	356.0	54.0	11	13.0	2.0	9.0	220	2013		11						11				
Downbound	Domestic		4 000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2013	N	3				3						
Downbound	Domestic		4 764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2013	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2013	N	1				1						
Downbound	Domestic		4 764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2013	N	1				1						
Downbound	Domestic		5 1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2013		4						4				
Downbound	Domestic		4 000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2013	N	1				1						
Downbound	Domestic		4 687	1514	195.0	35.0	9	9.0	1.5	7.5	206	2013		3				3						
Downbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2013	N	2				2						
Downbound	Domestic		4 834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2013	N	3				3						
Downbound	Domestic		5 1697	1800	296.7	54.0	9	9.0	1.6	7.4	90	2013		1						1				
Downbound	Domestic		4 705	1647	200.0	35.0	8	9.0	1.4	6.6	205	2013	N	1				1						
Downbound	Domestic		3 209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2013		5		5								
Downbound	Domestic		5 835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2013	N	15										15
Downbound	Domestic		5 1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2013		4						4				
Downbound	Domestic		4 000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2013	N	1				1						
Downbound	Domestic		4 933	1527	195.0	35.0	11	11.0	1.5	9.5	199	2013	N	1				1						
Downbound	Domestic		4 764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	16				16						
Downbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2013		9				9						
Downbound	Domestic		4 705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2013		4				4						
Downbound	Domestic		4 000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2013		5				5						
Downbound	Domestic		5 001619	4048	297.5	54.0	12	12.0	3.0	9.0	250	2013		2						2				
Downbound	Domestic		4 000764	1910	200.0	35.0	11	13.0	3.0	8.0	206	2013		1				1						
Downbound	Domestic		5 001616	5304	297.0	54.0	7	12.0	2.0	5.0	450	2013		0						0				
Downbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2013		1				1						
Downbound	Domestic		5 1816	5450	356.0	54.0	2	13.0	2.0	0.0	220	2013		1										1
Downbound	Domestic		3 000323	999999	140.0	42.0	6	9.5	5.8	0.2	428	2013	N	4		4								
Downbound	Domestic		3 000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2013		3		3								
Downbound	Domestic		4 772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2013	N	1								1		
Downbound	Domestic		4 000745	2331	195.0	35.0	2	13.0	1.6	0.4	220	2013	N	1								1		
Downbound	Domestic		4 698	1500	195.0	35.0	8	9.0	1.6	6.4	180	2013	N	1				1						
Downbound	Domestic		5 1619	3200	297.5	54.0	10	9.0	2.0	8.0	180	2013		3						3				
Downbound	Domestic		4 933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2013	N	9				9						
Downbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2013		8				8						
Downbound	Domestic		5 001754	4968	297.6	54.0	10	12.9	3.0	7.0	220	2013	N	2						2				
Downbound	Domestic		4 000764	1745	200.0	35.0	8	10.0	1.7	6.3	204	2013	N	1				1						
Downbound	Domestic		5 835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2013	N	4										4
Downbound	Domestic		3 64	64	64.0	26.0	6	7.5	6.0	0.0	496	2013		2		2								
Downbound	Domestic		4 000802	1705	195.0	35.0	2	10.0	1.5	0.5	140	2013	N	1								1		
Downbound	Domestic		4 000764	1534	200.0	35.0	2	9.0	1.7	0.3	209	2013	N	1								1		
Downbound	Domestic		5 1876	3300	297.5	54.0	9	10.0	2.0	7.0	180	2013		3						3				
Downbound	Domestic		5 1619	3390	297.5	54.0	10	11.0	2.0	8.0	120	2013		2						2				
Downbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2013	N	16				16						
Downbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2013	N	4				4						
Downbound	Domestic		4 935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2013	N	1				1						
Downbound	Domestic		4 000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2013		14				14						
Downbound	Domestic		4 823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2013		5				5						
Downbound	Domestic		4 823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2013	N	3				3						
Downbound	Domestic		5 001754	3390	297.5	54.0	10	11.0	2.0	8.0	180	2013		2						2				
Downbound	Domestic		4 000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2013		2				2						
Downbound	Domestic		3 000095	999999	76.0	34.0	7	11.0	11.0	-4.0	550	2013		6		6								
Downbound	Domestic		4 950	1666	200.0	35.0	2	9.0	1.4	0.6	180	2013	N	1								1		
Downbound	Domestic		3 66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2013		3		3								
Downbound	Domestic		5 000735	1511	200.0	35.0	2	9.2	2.0	0.0	179	2013	N	2										2
Downbound	Domestic		3 000194	242	110.0	32.0	11	10.3	8.6	2.4	450	2013		2		2								
Downbound	Domestic		4 705	2300	200.0	35.0	2	9.0	1.4	0.6	160	2013	N	1								1		
Downbound	Domestic		4 823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2013	N	3				3						
Downbound	Domestic		5 001897	4688	297.5	54.0	7	11.0	1.9	5.1	220	2013		1						1				
Downbound	Domestic		5 001619	3942	297.5	54.0	10	12.0	2.0	8.0	175	2013		1						1				
Downbound	Domestic		4 676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2013	N	3				3						
Downbound	Domestic		4 764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2013	N	4				4						
Downbound	Domestic		4 705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2013	N	2				2						
Downbound	Domestic		4 764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2013	N	1				1						
Downbound	Domestic		4 764	1517	200.0	35.0	9	9.0	1.9	7.1	225	2013	N	1				1						
Downbound	Domestic		4 000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2013	N	30				30						
Downbound	Domestic		4 000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2013	N	23				23						
Downbound	Domestic		5 1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2013		3						3				
Downbound	Domestic		4 823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2013	N	2				2						
Downbound	Domestic		4 764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2013		3				3						
Downbound	Domestic		4 000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2013		1				1						
Downbound	Domestic		4 000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2013		1				1						
Downbound	Domestic		4 705	1633	200.0	35.0	8	9.0	1.6	6.4	160	2013	N	2				2						
Downbound	Domestic		4 727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2013	N	2				2						
Downbound	Domestic		4 000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2013	N	1								1		
Downbound	Domestic		3 266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2013		1		1								
Downbound	Domestic		3 189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2013		2		2								
Downbound	Domestic		3 000255	375	110.0	34.0	8	8.0	7.5	0.5	380	2013		2		2								
Downbound	Domestic		5 1819	3100	281.7	54.0	11	9.0	2.0	9.0	180	2013		4						4				
Downbound	Domestic		4 000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2013	N	3				3						
Downbound	Domestic		4 764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2013	N	2				2						
Downbound	Domestic		4 745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2013		2				2						
Downbound	Domestic		4 000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2013	N	1				1						
Downbound	Domestic		4 764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	1.6	0.4	220	2013	N	2								2		
Downbound	Domestic		3 000128	999999	95.3	30.3	10	10.0	10.0	0.0	400	2013	N	3		3								
Downbound	Domestic		4 764	1668	200.0	35.0	2	9.0	1.5	0.5	160	2013	N	1								1		
Downbound	Domestic		4 764	1900	200.0	35.0	2	10.0	1.5	0.5	210	2013	N	1								1		
Downbound	Domestic		4 000764	1541	200.0	35.0	7	9.0	1.6	5.4	143	2013	N	2				2						
Downbound	Domestic		4 000764	1560	200.0	35.0	10	9.0	3.0	7.0	9999	2013	N	1				1						
Downbound	Domestic		4 000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2013	N	17				17						
Downbound	Domestic		4 764	1855	200.0	35.0	9	10.0	1.5	7.5	165	2013		2				2						
Downbound	Domestic		5 2917	2400	295.0	52.5	9	9.0	2.0	7.0	320	2013		1						1				
Downbound	Domestic		4 000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2013		1				1						
Downbound	Domestic		4 764	2000	200.0	35.0	11	12.0	1.5	9.5	9999	2013	N	2				2						
Downbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2013	N	4				4						
Downbound	Domestic		4 687	1605	195.0	35.0	9	9.5	0.5	8.5	146	2013	N	1				1						
Downbound	Domestic		3 258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2013		11		11								
Downbound	Domestic		4 000764	1705	200.0	35.0	2	10.0	1.5	0.5	139	2013	N	1								1		
Downbound	Domestic		4 687	1629	195.0	35.0	2	9.0	1.4	0.6	160	2013	N	1								1		
Downbound	Domestic		4 879	1455	195.0	35.0	8	9.0	2.0	6.0	172	2013	N	1				1						
Downbound	Domestic		5 001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2013		3						3				
Downbound	Domestic		4 000764	2500	200.0	35.0	8	10.0	3.0	5.0	9999	2013	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2013	N	7				7						
Downbound	Domestic	5	1803	4688	297.5	54.0	9	11.0	1.9	7.1	220	2013		4						4				
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2013		10				10						
Downbound	Domestic	4	000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2013		2				2						
Downbound	Domestic	4	000764	1514	200.0	35.0	9	9.0	1.8	7.2	190	2013	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2013	N	26								26		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2013	N	1								1		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2013	N	1								1		
Downbound	Domestic	3	265	999999	116.0	34.0	11	10.6	9.5	1.5	420	2013		1		1								
Downbound	Domestic	3	000223	999999	76.0	35.0	7	10.0	10.0	-3.0	499	2013		1		1								
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2013	N	4				4						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2013	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2013		1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2013		3				3						
Downbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	3				3						
Downbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2013	N	5				5						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2013	N	9				9						
Downbound	Domestic	4	000764	1615	200.0	35.0	6	12.0	1.8	4.2	170	2013		1				1						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2013	N	5				5						
Downbound	Domestic	4	000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2013	N	1				1						
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2013		1				1						
Downbound	Domestic	5	1754	4240	297.5	54.0	2	11.0	1.5	0.5	200	2013	N	2										2
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2013	N	3								3		
Downbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2013	N	2				2						
Downbound	Domestic	4	000764	1615	200.0	35.0	9	11.0	1.8	7.2	170	2013		1				1						
Downbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2013	N	4				4						
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2013	N	3				3						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	8				8						
Downbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.7	7.3	206	2013		1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2013	N	2				2						
Downbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2013	N	2				2						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.4	7.6	149	2013	N	1				1						
Downbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2013	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2013	N	1				1						
Downbound	Domestic	4	000802	2400	105.0	35.0	2	10.0	2.0	0.0	9999	2013	N	1								1		
Downbound	Domestic	4	764	1615	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	1								1		
Downbound	Domestic	4	705	1774	200.0	35.0	2	10.0	1.6	0.4	170	2013	N	1								1		
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2013	N	1								1		
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2013	N	4				4						
Downbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2013		16						16				
Downbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2013	N	2				2						
Downbound	Domestic	5	001754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2013		1						1				
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2013		1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	224	2013	N	1				1						
Downbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2013		538								538		
Downbound	Domestic	4	680	2680	200.0	35.0	2	11.0	1.5	0.5	208	2013	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	6				6						
Downbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2013		1				1						
Downbound	Domestic	4	000705	1650	200.0	35.0	12	12.0	1.5	10.5	208	2013	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2013	N	43				43						
Downbound	Domestic	4	688	2142	195.0	35.0	7	11.0	1.5	5.5	160	2013	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2013	N	2				2						
Downbound	Domestic	5	1455	3200	290.0	54.0	9	10.0	2.0	7.0	170	2013		3						3				
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2013		11				11						
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	1.6	8.4	210	2013	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2013		17				17						
Downbound	Domestic	4	688	1677	200.0	35.0	9	9.0	1.5	7.5	210	2013	N	1				1						
Downbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2013	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2013		1				1						
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2013	N	1								1		
Downbound	Domestic	4	000823	1750	200.0	35.0	2	10.0	1.7	0.3	215	2013	N	1								1		
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2013	N	4								4		
Downbound	Domestic	4	736	1654	200.0	35.0	8	9.0	1.5	6.5	187	2013	N	1				1						
Downbound	Domestic	5	001632	3000	300.0	54.0	9	12.0	2.0	7.0	226	2013	N	5						5				
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	3				3						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2013	N	6				6						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2013		2				2						
Downbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2013		6				6						
Downbound	Domestic	4	705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2013	N	5				5						
Downbound	Domestic	4	823	2719	200.0	35.0	9	12.0	1.6	7.4	250	2013	N	1				1						
Downbound	Domestic	4	000764	1869	200.0	35.0	7	10.0	1.7	5.3	191	2013	N	3				3						
Downbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2013		2				2						
Downbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2013	N	1				1						
Downbound	Domestic	4	764	2187	200.0	35.0	8	11.0	1.7	6.3	240	2013		1				1						
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2013	N	2										2
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2013	N	5										5
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2013	N	2								2		
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2013	N	2								2		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2013		1								1		
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2013	N	6				6						
Downbound	Domestic	4	696	1643	200.0	35.0	8	9.0	1.5	6.5	192	2013	N	2				2						
Downbound	Domestic	5	001619	3891	297.5	54.0	9	10.0	1.7	7.3	179	2013		6						6				
Downbound	Domestic	5	001619	3891	297.5	54.0	11	10.5	1.5	9.5	175	2013		1						1				
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2013	N	2				2						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2013	N	8				8						
Downbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2013	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2013	N	8				8						
Downbound	Domestic	4	799	1887	200.0	35.0	9	10.0	1.4	7.6	149	2013	N	3				3						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2013	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	11	10.0	1.8	9.2	206	2013		1				1						
Downbound	Domestic	3	349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2013		2		2								
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2013		1										1
Downbound	Domestic	5	000705	1600	200.0	35.0	1	8.0	1.0	0.0	120	2013	N	1										1
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2013	N	5				5						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2013		2						2				
Downbound	Domestic	5	001619	3200	297.5	54.0	9	9.0	2.0	7.0	180	2013		5						5				
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2013		9						9				
Downbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2013	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2013	N	5				5						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2013		2				2						
Downbound	Domestic	4	823	1751	200.0	35.0	9	10.0	1.7	7.3	190	2013	N	1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2013		5				5						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	148	2013	N	1				1						
Downbound	Domestic	5	914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2013		1						1				
Downbound	Domestic	5	001841	3200	290.0	54.0	10	10.0	2.0	8.0	220	2013		1						1				
Downbound	Domestic	4	000764	1539	200.0	35.0	9	11.0	1.9	7.1	206	2013		1				1						
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2013	N	1				1						
Downbound	Domestic	4	687	1829	200.0	35.0	9	10.6	1.5	7.5	220	2013		1				1						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2013		4		4								
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2013	N	1								1		
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2013		7						7				
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2013	N	1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2013	N	2				2						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2013	N	8				8						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2013	N	6				6						
Downbound	Domestic	5	766	1500	200.0	35.0	9	9.0	2.0	7.0	170	2013	N	2						2				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2013		2				2						
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2013	N	4				4						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2013	N	1				1						
Downbound	Domestic	3	000177	999999	85.8	32.0	7	7.0	7.0	0.0	416	2013		1		1								
Downbound	Domestic	4	764	1527	200.0	35.0	2	9.0	1.8	0.2	205	2013	N	1								1		
Downbound	Domestic	5	001619	1869	297.5	54.0	10	10.0	1.7	8.3	191	2013		7						7				
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2013	N	3				3						
Downbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2013	N	4				4						
Downbound	Domestic	4	000764	1677	200.0	35.0	9	9.0	1.4	7.6	165	2013		1				1						
Downbound	Domestic	4	771	1654	200.0	35.0	9	9.0	1.5	7.5	214	2013	N	4				4						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2013		1				1						
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	132	2013	N	1				1						
Downbound	Domestic	4	764	1533	200.0	35.0	9	9.0	1.7	7.3	170	2013	N	1				1						
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2013	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	209	2013	N	1				1						
Downbound	Domestic	5	1861	5250	356.0	54.0	2	13.0	2.0	0.0	220	2013		1										1
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2013	N	28								28		
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2013		3				3						
Downbound	Domestic	5	1619	3891	297.5	54.0	10	10.0	1.5	8.5	175	2013		1						1				
Downbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2013	N	3				3						
Downbound	Domestic	4	000823	2300	200.0	35.0	10	14.0	1.5	8.5	165	2013		1				1						
Downbound	Domestic	5	001619	4048	297.5	54.0	10	12.0	3.0	7.0	250	2013		4						4				
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2013		1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2013	N	1				1						
Downbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2013	N	1				1						
Downbound	Domestic	3	215	999999	100.0	32.0	9	10.5	8.5	0.5	450	2013		1		1								
Downbound	Domestic	3	209	999999	100.0	30.0	8	8.0	8.0	0.0	460	2013		1		1								
Downbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2013		28		28								
Downbound	Domestic	3	103	999999	72.0	24.0	9	8.5	6.0	3.0	300	2013		6		6								
Downbound	Domestic	3	218	999999	82.0	32.0	7	8.1	7.1	-0.1	410	2013		5		5								
Downbound	Domestic	5	890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2013	N	9										9
Downbound	Domestic	3	170	999999	85.0	30.0	7	7.6	7.6	-0.6	320	2013		1		1								
Downbound	Domestic	4	000745	2292	200.0	35.0	2	12.0	2.0	0.0	216	2013	N	1								1		
Downbound	Domestic	4	687	1514	195.0	35.0	2	9.0	1.5	0.5	149	2013	N	1								1		
Downbound	Domestic	4	957	1665	200.0	35.0	8	9.0	1.4	6.6	186	2013	N	1				1						
Downbound	Domestic	4	000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2013	N	2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2013	N	22								22		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2013	N	21								21		
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2013	N	12								12		
Downbound	Domestic	4	000764	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2013	N	1								1		
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2013	N	1								1		
Downbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.6	0.4	191	2013	N	1								1		
Downbound	Domestic	5	001619	3942	297.5	54.0	11	12.0	2.0	9.0	175	2013		1						1				
Downbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2013	N	3				3						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	9999	2013	N	1				1						
Downbound	Domestic	4	711	1732	195.0	35.0	8	10.0	1.6	6.4	192	2013		1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2013		3						3				
Downbound	Domestic	4	764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2013	N	1				1						
Downbound	Domestic	4	764	1554	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	1				1						
Downbound	Domestic	3	000169	999999	88.9	30.0	9	9.0	9.0	0.0	428	2013		9		9								
Downbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2013	N	2								2		
Downbound	Domestic	4	705	1551	200.0	35.0	2	9.0	1.5	0.5	224	2013	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	2.0	6.0	9999	2013	N	1				1						
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2013		2						2				
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2013		8				8						
Downbound	Domestic	4	000823	2058	200.0	35.0	10	14.0	2.0	8.0	9999	2013	N	1				1						
Downbound	Domestic	4	823	2280	200.0	35.0	8	12.0	1.8	6.2	224	2013	N	1				1						
Downbound	Domestic	4	000764	1875	200.0	35.0	9	10.0	1.7	7.3	160	2013	N	2				2						
Downbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2013		1		1								
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2013	N	1								1		
Downbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2013	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2013		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2013	N	4				4						
Downbound	Domestic	4	823	1800	200.0	35.0	11	10.0	1.5	9.5	180	2013	N	1				1						
Downbound	Domestic	5	001321	3200	280.4	54.0	10	9.0	2.0	8.0	180	2013		2						2				
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2013	N	2				2						
Downbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2013	N	1				1						
Downbound	Domestic	5	001754	4530	297.5	54.0	9	12.9	2.0	7.0	200	2013	N	2						2				
Downbound	Domestic	4	705	1893	200.0	35.0	7	10.0	1.4	5.6	205	2013		1				1						
Downbound	Domestic	4	000764	1566	200.0	35.0	11	9.0	3.0	8.0	9999	2013	N	1				1						
Downbound	Domestic	4	000764	1616	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	4				4						
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2013	N	3								3		
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2013		2		2								
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2013	N	4				4						
Downbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2013	N	2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	11	10.0	1.5	9.5	199	2013	N	2				2						
Downbound	Domestic	5	2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2013		2						2				
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2013	N	4				4						
Downbound	Domestic	5	1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2013		3						3				
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2013	N	7				7						
Downbound	Domestic	4	964	2098	200.0	35.0	8	11.0	1.5	6.5	218	2013		1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2013		13				13						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2013		2				2						
Downbound	Domestic	4	823	1652	200.0	35.0	8	9.0	1.4	6.6	235	2013	N	1				1						
Downbound	Domestic	4	771	1660	200.0	35.0	9	9.0	1.4	7.6	218	2013	N	1				1						
Downbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	205	2013	N	2				2						
Downbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2013		1				1						
Downbound	Domestic	4	000764	2187	200.0	35.0	8	12.0	1.7	6.3	210	2013		1				1						
Downbound	Domestic	4	000764	1633	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	1								1		
Downbound	Domestic	5	788	1439	195.0	35.0	2	9.0	2.0	0.0	165	2013	N	3										3
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2013	N	5				5						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2013	N	2				2						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2013	N	2				2						
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2013		6				6						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2013		7				7						
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	9999	2013		1				1						
Downbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2013	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2013	N	2				2						
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	191	2013	N	1				1						
Downbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2013	N	1				1						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2013	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2013	N	4				4						
Downbound	Domestic	4	000764	1637	200.0	35.0	9	9.0	1.7	7.3	199	2013		1				1						
Downbound	Domestic	4	764	1517	200.0	35.0	2	9.0	1.9	0.1	225	2013	N	1								1		
Downbound	Domestic	4	000745	2292	195.0	35.0	2	15.0	3.0	-1.0	9999	2013	N	1								1		
Downbound	Domestic	5	775	1477	195.0	35.0	2	9.0	1.8	0.2	184	2013	N	1										1
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2013		3				3						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2013	N	11				11						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2013		2				2						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2013		9				9						
Downbound	Domestic	4	1046	1904	195.0	35.0	8	11.0	1.8	6.2	191	2013		1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2013		1				1						
Downbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2013	N	2				2						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2013	N	6				6						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic		4 745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2013		1				1						
Downbound	Domestic		4 000764	1615	200.0	35.0	9	12.0	1.8	7.2	170	2013		1				1						
Downbound	Domestic		4 764	1600	200.0	35.0	8	9.0	1.6	6.4	180	2013		1				1						
Downbound	Domestic		4 764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2013	N	1				1						
Downbound	Domestic		4 000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2013	N	1								1		
Downbound	Domestic		3 000133	444	110.0	32.0	8	10.3	8.0	0.0	450	2013		1		1								
Downbound	Domestic		5 001619	4048	297.5	54.0	7	12.0	3.0	4.0	250	2013		0						0				
Downbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2013		20				20						
Downbound	Domestic		4 764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2013	N	3				3						
Downbound	Domestic		5 001632	3900	300.0	54.0	9	10.0	2.0	7.0	205	2013	N	1						1				
Downbound	Domestic		4 1006	1902	195.0	35.0	8	11.0	1.9	6.1	199	2013		1				1						
Downbound	Domestic		4 000823	2200	200.0	35.0	9	12.0	2.0	7.0	213	2013		1				1						
Downbound	Domestic		4 000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2013	N	4				4						
Downbound	Domestic		5 1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2013		2						2				
Downbound	Domestic		5 001754	3390	297.5	54.0	6	12.0	2.0	4.0	180	2013		0						0				
Downbound	Domestic		4 764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2013	N	1								1		
Downbound	Domestic		4 764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2013	N	2				2						
Downbound	Domestic		4 823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2013	N	1				1						
Downbound	Domestic		4 960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2013	N	2				2						
Downbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2013	N	2				2						
Downbound	Domestic		4 000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2013	N	2				2						
Downbound	Domestic		4 000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2013		2				2						
Downbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2013		2				2						
Downbound	Domestic		4 764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2013	N	1				1						
Downbound	Domestic		5 001754	4968	297.6	54.0	6	12.9	3.0	3.0	220	2013	N	1						1				
Downbound	Domestic		5 001760	4190	298.5	54.0	5	11.0	2.0	3.0	220	2013	N	1						1				
Downbound	Domestic		4 687	1577	195.0	35.0	9	9.0	1.8	7.2	169	2013	N	2				2						
Downbound	Domestic		4 764	1548	200.0	35.0	9	9.0	1.7	7.3	212	2013	N	4				4						
Downbound	Domestic		4 705	1674	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	1				1						
Downbound	Domestic		4 834	1701	195.0	35.0	7	10.0	1.7	5.3	210	2013	N	1				1						
Downbound	Domestic		4 000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2013	N	1				1						
Downbound	Domestic		4 601	1400	195.0	35.0	2	10.0	2.0	0.0	110	2013		151								151		
Downbound	Domestic		4 000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2013		6								6		
Downbound	Domestic		4 680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2013	N	9								9		
Downbound	Domestic		4 706	1507	200.0	35.0	2	9.0	1.9	0.1	215	2013	N	1								1		
Downbound	Domestic		4 705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2013	N	4								4		
Downbound	Domestic		4 000764	1750	200.0	35.0	2	10.0	1.5	0.5	191	2013	N	1								1		
Downbound	Domestic		5 001619	4048	297.5	54.0	11	12.0	3.0	8.0	250	2013		12						12				
Downbound	Domestic		4 764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2013	N	2				2						
Downbound	Domestic		4 823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2013	N	4				4						
Downbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2013		9				9						
Downbound	Domestic		5 1619	4048	297.5	54.0	9	11.5	2.0	7.0	190	2013		2						2				
Downbound	Domestic		4 933	1527	195.0	35.0	12	10.0	1.5	10.5	199	2013	N	1				1						
Downbound	Domestic		4 705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2013		1				1						
Downbound	Domestic		4 688	1540	200.0	35.0	9	9.0	1.5	7.5	210	2013	N	1				1						
Downbound	Domestic		4 705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2013	N	1				1						
Downbound	Domestic		4 764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2013	N	1				1						
Downbound	Domestic		3 000177	999999	85.8	32.0	9	9.0	9.0	0.0	416	2013		15		15								
Downbound	Domestic		4 823	1662	200.0	35.0	2	13.0	1.6	0.4	230	2013	N	1								1		
Downbound	Domestic		4 706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2013	N	1								1		
Downbound	Domestic		4 764	1548	200.0	35.0	2	9.0	1.7	0.3	212	2013	N	2								2		
Downbound	Domestic		4 000700	1660	200.0	35.0	2	9.0	1.5	0.5	190	2013	N	1								1		
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2013		10				10						
Downbound	Domestic		4 000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2013	N	1				1						
Downbound	Domestic		4 764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2013	N	2				2						
Downbound	Domestic		4 764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2013	N	7				7						
Downbound	Domestic		4 675	1506	195.0	35.0	8	9.0	1.5	6.5	155	2013	N	2				2						
Downbound	Domestic		4 834	1701	195.1	35.0	8	10.0	1.7	6.3	210	2013	N	1				1						
Downbound	Domestic		4 000687	1476	195.0	35.0	7	9.0	1.7	5.3	205	2013	N	1				1						
Downbound	Domestic		4 823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2013		2				2						
Downbound	Domestic		5 2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2013		2						2				
Downbound	Domestic		4 764	1990	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	3				3						
Downbound	Domestic		4 1658	2304	200.0	35.0	8	12.0	1.5	6.5	240	2013		1				1						
Downbound	Domestic		4 708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2013	N	5								5		
Downbound	Domestic		3 000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2013		25		25								
Downbound	Domestic		4 000706	1534	200.0	35.0	2	9.0	1.8	0.2	205	2013	N	1								1		
Downbound	Domestic		4 000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2013	N	5				5						
Downbound	Domestic		4 764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2013	N	10				10						
Downbound	Domestic		5 766	1500	200.0	35.0	8	9.0	2.0	6.0	170	2013	N	1						1				
Downbound	Domestic		4 000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	19				19						
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2013		4				4						
Downbound	Domestic		4 764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2013	N	5				5						
Downbound	Domestic		4 000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2013	N	2				2						
Downbound	Domestic		5 001760	4190	298.5	54.0	9	11.0	2.0	7.0	220	2013	N	2						2				
Downbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2013		7				7						
Downbound	Domestic		4 000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2013	N	2				2						
Downbound	Domestic		4 000823	2161	200.0	35.0	9	10.0	1.8	7.2	219	2013		1				1						
Downbound	Domestic		4 000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2013	N	13				13						
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2013		2				2						
Downbound	Domestic		4 687	1626	195.0	35.0	9	9.0	1.6	7.4	146	2013	N	1				1						
Downbound	Domestic		4 000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2013		2				2						
Downbound	Domestic		3 000103	344	110.0	32.0	11	10.3	8.6	2.4	360	2013		1		1								
Downbound	Domestic		5 001619	3891	297.5	54.0	9	10.5	1.5	7.5	175	2013		6						6				
Downbound	Domestic		4 000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2013		11				11						
Downbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2013	N	9				9						
Downbound	Domestic		4 764	1647	200.0	35.0	8	9.0	1.2	6.8	165	2013	N	1				1						
Downbound	Domestic		5 001619	4048	297.5	54.0	8	12.0	3.0	5.0	250	2013		2						2				
Downbound	Domestic		4 764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2013	N	4				4						
Downbound	Domestic		4 823	2732	200.0	35.0	8	14.0	2.0	6.0	191	2013	N	1				1						
Downbound	Domestic		4 000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2013	N	1				1						
Downbound	Domestic		4 764	1673	200.0	35.0	9	9.0	1.4	7.6	165	2013	N	2				2						
Downbound	Domestic		4 705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2013		1				1						
Downbound	Domestic		4 705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2013	N	1				1						
Downbound	Domestic		4 000823	2058	200.0	35.0	11	14.0	2.0	9.0	9999	2013	N	2				2						
Downbound	Domestic		4 000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2013		1				1						
Downbound	Domestic		5 761	1400	195.0	35.0	2	9.0	1.8	0.2	183	2013	N	1										1
Downbound	Domestic		4 000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2013	N	4				4						
Downbound	Domestic		4 000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2013	N	11								11		
Downbound	Domestic		4 764	1648	200.0	35.0	8	11.0	1.5	6.5	208	2013	N	2				2						
Downbound	Domestic		4 933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2013	N	1				1						
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	213	2013	N	2				2						
Downbound	Domestic		4 764	1886	200.0	35.0	9	10.0	1.5	7.5	150	2013	N	1				1						
Downbound	Domestic		4 000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2013		5				5						
Downbound	Domestic		4 823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2013		3				3						
Downbound	Domestic		5 001754	4972	297.5	54.0	7	12.1	1.5	5.5	176	2013	N	4						4				
Downbound	Domestic		4 000764	1534	200.0	35.0	11	9.0	1.7	9.3	199	2013	N	1				1						
Downbound	Domestic		4 688	1912	195.0	35.0	9	10.0	1.7	7.3	160	2013	N	1				1						
Downbound	Domestic		4 764	1555	200.0	35.0	9	9.0	1.6	7.4	130	2013	N	1				1						
Downbound	Domestic		4 708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2013	N	1				1						
Downbound	Domestic		4 745	2345	195.0	35.0	9	13.0	1.6	7.4	209	2013	N	1				1						
Downbound	Domestic		4 745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2013	N	2				2						
Downbound	Domestic		5 795	1475	195.0	35.0	2	9.0	1.8	0.2	178	2013	N	1										1
Downbound	Domestic		3 405	999999	138.0	44.0	9	9.0	8.5	0.5	380	2013	N	11		11								
Downbound	Domestic		5 000814	1447	195.0	35.0	2	9.0	1.9	0.1	170	2013	N	1										1
Downbound	Domestic		4 862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2013	N	1								1		
Downbound	Domestic		4 764	1648	200.0	35.0	2	12.0	1.5	0.5	208	2013	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2013	N	5				5						
Downbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	5				5						
Downbound	Domestic	5	001619	3612	300.0	54.0	9	9.3	2.0	7.0	190	2013	N	1						1				
Downbound	Domestic	4	000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2013	N	1				1						
Downbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2013	N	1				1						
Downbound	Domestic	3	000177	999999	85.8	32.0	8	10.0	8.0	0.0	480	2013		2		2								
Downbound	Domestic	4	000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2013	N	10								10		
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2013		2		2								
Downbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2013	N	2								2		
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2013	N	4								4		
Downbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2013	N	1								1		
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2013	N	1								1		
Downbound	Domestic	4	000782	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2013	N	1								1		
Downbound	Domestic	5	1721	3300	297.6	54.1	10	10.0	2.0	8.0	180	2013		7						7				
Downbound	Domestic	4	000764	2528	200.0	35.0	7	13.0	1.5	5.5	155	2013	N	1				1						
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2013	N	3				3						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	3.0	5.0	9999	2013	N	1				1						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2013	N	3				3						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2013	N	8				8						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2013		2				2						
Downbound	Domestic	4	895	1499	195.0	35.0	9	9.0	1.8	7.2	186	2013		1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2013		4				4						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2013		4				4						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	213	2013	N	1				1						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	3				3						
Downbound	Domestic	4	000764	1910	200.0	35.0	7	12.0	2.0	5.0	210	2013		1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2013	N	1				1						
Downbound	Domestic	5	1038	2000	155.1	54.0	9	10.0	2.0	7.0	180	2013		1						1				
Downbound	Domestic	4	687	1722	195.0	35.0	9	10.0	1.6	7.4	205	2013		1				1						
Downbound	Domestic	4	764	1855	200.0	35.0	8	10.0	1.5	6.5	165	2013		1				1						
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2013		21		21								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	220	2013	N	9								9		
Downbound	Domestic	5	1861	5250	356.0	54.0	11	13.0	2.0	9.0	220	2013		11						11				
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2013	N	3								3		
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2013	N	4				4						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	2				2						
Downbound	Domestic	4	764	1617	200.0	35.0	8	9.0	1.6	6.4	225	2013	N	1				1						
Downbound	Domestic	4	000764	1620	200.0	35.0	12	9.0	2.0	10.0	9999	2013	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2013		6				6						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2013	N	16				16						
Downbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2013	N	1				1						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2013	N	3				3						
Downbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2013	N	15				15						
Downbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.5	7.5	160	2013	N	1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	7	9.0	1.6	5.4	154	2013	N	1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2013	N	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2013	N	1				1						
Downbound	Domestic	3	169	999999	90.0	30.0	7	8.6	8.0	-1.0	400	2013		1		1								
Downbound	Domestic	4	000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2013	N	1								1		
Downbound	Domestic	4	000764	1875	200.0	35.0	2	10.0	1.7	0.3	160	2013		1								1		
Downbound	Domestic	4	960	1635	200.0	35.0	8	9.0	1.6	6.4	177	2013	N	1				1						
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2013	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2013	N	9				9						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2013	N	18				18						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2013	N	9				9						
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2013	N	2				2						
Downbound	Domestic	4	823	2279	200.0	35.0	8	12.0	1.7	6.3	223	2013	N	1				1						
Downbound	Domestic	4	940	1500	195.0	35.0	9	9.6	1.8	7.2	150	2013	N	1				1						
Downbound	Domestic	4	802	1481	195.0	35.0	11	11.0	1.8	9.2	250	2013		1				1						
Downbound	Domestic	3	249	999999	114.8	30.1	7	8.6	7.0	0.0	400	2013		8		8								
Downbound	Domestic	3	201	999999	94.1	30.0	9	7.0	7.0	2.0	390	2013		1		1								
Downbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2013		251		251								
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2013	N	2				2						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	168	2013	N	3				3						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2013	N	1				1						
Downbound	Domestic	4	856	2312	200.0	35.0	8	12.0	1.5	6.5	217	2013	N	2				2						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	1				1						
Downbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2013	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2013	N	2				2						
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2013	N	2				2						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2013	N	2				2						
Downbound	Domestic	5	1454	3200	295.0	54.0	7	10.0	2.0	5.0	170	2013		0						0				
Downbound	Domestic	3	000148	999999	80.6	30.0	8	10.0	8.0	0.0	470	2013		1		1								
Downbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2013	N	1				1						
Downbound	Domestic	4	000823	1526	200.0	35.0	7	9.0	1.6	5.4	180	2013	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2013	N	7				7						
Downbound	Domestic	4	000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2013	N	1				1						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2013	N	2				2						
Downbound	Domestic	4	000764	1553	200.0	35.0	9	9.0	1.6	7.4	130	2013		2				2						
Downbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2013	N	3				3						
Downbound	Domestic	4	000724	1532	200.0	35.0	7	9.0	1.7	5.3	160	2013	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2013	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2013		1				1						
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2013		30		30								
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.6	0.4	215	2013	N	1								1		
Downbound	Domestic	3	200	999999	95.0	30.0	7	8.5	7.0	0.0	300	2013	N	3		3								
Downbound	Domestic	4	000823	2881	200.0	35.0	2	13.0	3.0	-1.0	9999	2013	N	1								1		
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2013	N	1								1		
Downbound	Domestic	5	1106	1800	175.0	54.0	9	10.0	2.0	7.0	170	2013		3						3				
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2013	N	6				6						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2013	N	7				7						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2013	N	5				5						
Downbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2013	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2013		2				2						
Downbound	Domestic	5	1619	3660	297.5	54.0	9	11.0	2.0	7.0	160	2013		3						3				
Downbound	Domestic	5	1754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2013		3						3				
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2013	N	3				3						
Downbound	Domestic	5	001616	5304	297.0	54.0	5	12.0	2.0	3.0	450	2013		1						1				
Downbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2013		26		26								
Downbound	Domestic	3	166	999999	95.0	28.0	7	7.0	6.5	0.5	400	2013		3		3								
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	177	2013	N	1								1		
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2013	N	3				3						
Downbound	Domestic	5	1619	3891	297.0	54.0	10	12.0	1.5	8.5	175	2013		1						1				
Downbound	Domestic	4	000706	1534	200.0	35.0	9	9.0	1.8	7.2	205	2013	N	1				1						
Downbound	Domestic	4	1020	1854	200.0	35.0	8	10.0	1.6	6.4	167	2013		1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2013		1				1						
Downbound	Domestic	5	1754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2013		1						1				
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2013	N	3				3						
Downbound	Domestic	3	000256	377	110.0	32.0	8	9.0	8.0	0.0	482	2013		1		1								
Downbound	Domestic	4	834	1701	195.0	35.0	7	10.0	1.7	5.3	191	2013	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2013	N	2				2						
Downbound	Domestic	5	1419	3000	230.0	54.0	9	10.0	2.0	7.0	170	2013		2						2				
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2013	N	1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2013		19				19						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2013	N	2				2						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2013	N	12				12						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2013	N	3				3						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2013		1				1						
Downbound	Domestic	5	001754	4531	297.5	54.0	8	10.0	1.9	6.1	220	2013		1						1				
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2013	N	2				2						
Downbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	130	2013	N	1								1		
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2013		28		28								
Downbound	Domestic	4	000745	2235	200.0	35.0	2	15.0	3.0	-1.0	9999	2013	N	1								1		
Downbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2013	N	3								3		
Downbound	Domestic	4	546	1500	195.0	35.0	8	9.0	1.0	7.0	190	2013	N	1				1						
Downbound	Domestic	5	1961	3500	297.5	54.0	10	8.5	2.0	8.0	100	2013		2						2				
Downbound	Domestic	5	001619	3891	297.5	54.0	10	10.5	1.5	8.5	175	2013		6						6				
Downbound	Domestic	4	000764	2500	200.0	35.0	9	9.0	1.5	7.5	217	2013	N	1				1						
Downbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2013	N	4				4						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2013	N	6				6						
Downbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2013	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	208	2013	N	1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	217	2013	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	170	2013		1				1						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2013		1				1						
Downbound	Domestic	4	1051	1650	200.0	35.0	2	9.0	1.0	1.0	190	2013	N	1								1		
Downbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2013		47		47								
Downbound	Domestic	5	000705	2100	200.0	35.0	2	11.0	2.0	0.0	9999	2013	N	1										1
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	147	2013	N	1								1		
Downbound	Domestic	4	705	1572	200.0	35.0	2	9.0	1.5	0.5	223	2013	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	7	10.0	3.0	4.0	9999	2013	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2013	N	7				7						
Downbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	7				7						
Downbound	Domestic	4	705	1877	200.0	35.0	9	10.0	1.5	7.5	146	2013	N	2				2						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2013		4				4						
Downbound	Domestic	5	001754	4531	297.5	54.0	9	10.0	1.9	7.1	220	2013		3						3				
Downbound	Domestic	4	823	2298	200.0	35.0	9	12.0	1.5	7.5	225	2013	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	10	10.0	1.5	8.5	206	2013		1				1						
Downbound	Domestic	5	001754	3390	297.0	54.0	10	11.0	2.0	8.0	180	2013		1						1				
Downbound	Domestic	5	1619	4528	300.0	54.0	9	9.3	2.0	7.0	190	2013	N	1						1				
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2013	N	2				2						
Downbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2013	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2013		27		27								
Downbound	Domestic	4	000764	2300	200.0	35.0	2	12.0	1.6	0.4	226	2013	N	1								1		
Downbound	Domestic	4	000745	2100	195.0	35.0	2	12.0	2.0	0.0	9999	2013	N	10								10		
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2013	N	6								6		
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2013		1								1		
Downbound	Domestic	4	764	1645	200.0	35.0	2	9.0	1.5	0.5	165	2013	N	1								1		
Downbound	Domestic	5	001632	3000	300.0	54.0	9	12.0	2.0	7.0	225	2013	N	5						5				
Downbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	3				3						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2013	N	2				2						
Downbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2013	N	5				5						
Downbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2013	N	3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	30				30						
Downbound	Domestic	4	764	1744	200.0	35.0	9	10.0	1.7	7.3	209	2013	N	2				2						
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2013	N	2				2						
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2013		3				3						
Downbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2013	N	2				2						
Downbound	Domestic	4	705	1663	200.0	35.0	9	9.0	1.5	7.5	223	2013	N	2				2						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2013	N	1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	9	10.0	1.6	7.4	224	2013	N	1				1						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2013	N	1								1		
Downbound	Domestic	4	000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2013		1				1						
Downbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2013		237		237								
Downbound	Domestic	4	799	1887	200.0	35.0	2	10.0	1.5	0.5	149	2013	N	1								1		
Downbound	Domestic	4	000782	1990	200.0	35.0	9	9.0	1.5	7.5	170	2013	N	2				2						
Downbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2013		1				1						
Downbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.5	7.5	160	2013	N	3				3						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2013		2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2013	N	10								10		
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2013		5						5				
Downbound	Domestic	4	700	1504	195.0	35.0	8	9.0	1.6	6.4	206	2013	N	1				1						
Downbound	Domestic	5	1619	4048	297.5	54.0	10	11.5	2.0	8.0	190	2013		18						18				
Downbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2013		3				3						
Downbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2013	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2013	N	1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2013		8				8						
Downbound	Domestic	4	000764	2007	200.0	35.0	10	14.0	3.0	7.0	9999	2013	N	1				1						
Downbound	Domestic	5	1455	3200	290.0	54.0	10	10.0	2.0	8.0	170	2013		1						1				
Downbound	Domestic	4	000705	1647	200.0	35.0	8	9.0	1.5	6.5	205	2013	N	1				1						
Downbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2013	N	2				2						
Downbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	240	2013		1				1						
Downbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2013	N	1				1						
Downbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2013		1				1						
Downbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2013		5		5								
Downbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2013	N	1								1		
Downbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2013	N	3				3						
Downbound	Domestic	4	687	1501	195.0	35.0	11	10.0	1.5	9.5	186	2013	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2013		5				5						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2013	N	6				6						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2013	N	11				11						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2013	N	6				6						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2013		4				4						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	160	2013	N	2				2						
Downbound	Domestic	5	001754	4186	297.5	54.0	9	11.0	2.0	7.0	179	2013	N	2						2				
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2013	N	4				4						
Downbound	Domestic	4	000764	1546	200.0	35.0	9	9.0	1.6	7.4	205	2013	N	1				1						
Downbound	Domestic	5	2099	5067	356.0	54.0	8	11.0	0.6	7.4	280	2013		1						1				
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2013	N	3				3						
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2013	N	1								1		
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2013	N	7								7		
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2013	N	5				5						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2013	N	12				12						
Downbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2013	N	1				1						
Downbound	Domestic	4	000764	1562	200.0	35.0	11	9.0	3.0	8.0	9999	2013	N	1				1						
Downbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2013	N	1				1						
Downbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2013		1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2013		1				1						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2013	N	8				8						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	125	2013		1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2013	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	3	13.0	1.5	1.5	165	2013		1								1		
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2013	N	1								1		
Downbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2013		1		1								
Downbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2013	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2013	N	4				4						
Downbound	Domestic	5	914	2800	147.5	52.5	12	13.0	2.0	10.0	180	2013		9						9				
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2013	N	4				4						
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2013	N	2				2						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2013	N	17				17						
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2013		1						1				
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2013		4				4						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2013		7				7						
Downbound	Domestic	4	688	1680	200.0	35.0	9	9.0	1.5	7.5	210	2013	N	2				2						
Downbound	Domestic	4	000687	1476	195.0	35.0	8	9.0	1.7	6.3	205	2013	N	1				1						
Downbound	Domestic	5	716	1450	195.0	35.0	9	9.0	1.5	7.5	168	2013	N	1						1				
Downbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2013	N	1				1						
Downbound	Domestic	3	000067	999999	68.9	30.0	10	10.0	10.0	0.0	440	2013		10		10								
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2013		2		2								
Downbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2013		197		197								
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2013	N	1								1		
Downbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2013	N	1								1		
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2014	N	2			2							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2014	N	7			7							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2014	N	4			4							
Upbound	Domestic	4	000764	1521	200.0	35.0	9	9.0	1.8	7.2	225	2014	N	2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2014		1			1							
Upbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2014	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2014	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2014	N	1			1							
Upbound	Domestic	4	000706	1534	200.0	35.0	8	9.0	1.8	6.2	145	2014	N	1			1							
Upbound	Domestic	5	000735	1511	200.0	35.0	10	9.2	2.0	8.0	179	2014	N	1					1					
Upbound	Domestic	5	773	1489	195.0	35.0	9	9.0	1.3	7.7	160	2014	N	1					1					
Upbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2014	N	2							2			
Upbound	Domestic	3	000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2014		11		11								
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2014	N	1							1			
Upbound	Domestic	5	1810	3200	295.0	54.0	2	8.5	2.0	0.0	175	2014	N	1									1	
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2014		1			1							
Upbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2014	N	3			3							
Upbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2014	N	5			5							
Upbound	Domestic	4	688	1680	200.0	35.0	9	9.0	1.5	7.5	210	2014	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	160	2014	N	2			2							
Upbound	Domestic	4	823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2014	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	12	11.0	1.9	10.1	206	2014		1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2014	N	2			2							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2014	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	7	9.0	1.6	5.4	165	2014	N	1			1							
Upbound	Domestic	4	706	1575	200.0	35.0	9	9.0	1.6	7.4	205	2014	N	1			1							
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2014		8									8	
Upbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2014	N	1							1			
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2014		1			1							
Upbound	Domestic	4	000764	2073	200.0	35.0	10	13.0	1.6	8.4	200	2014		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2014	N	5			5							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2014		3			3							
Upbound	Domestic	4	922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2014		2			2							
Upbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2014	N	1			1							
Upbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2014	N	3			3							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	1869	2014	N	1			1							
Upbound	Domestic	4	764	1554	200.0	35.0	6	9.0	1.5	4.5	170	2014	N	1			1							
Upbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2014	N	1			1							
Upbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2014	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2014	N	1			1							
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2014		6		6								
Upbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.5	0.5	191	2014	N	1							1			
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2014		5			5							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2014	N	3			3							
Upbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	213	2014	N	2			2							
Upbound	Domestic	4	000764	1633	200.0	35.0	11	9.0	1.6	9.4	225	2014	N	3			3							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2014	N	6			6							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2014	N	1			1							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2014	N	3			3							
Upbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2014	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	10.0	1.8	7.2	206	2014		1			1							
Upbound	Domestic	4	000764	1964	200.0	35.0	7	9.0	2.0	5.0	196	2014	N	1			1							
Upbound	Domestic	4	000764	1590	200.0	35.0	11	9.0	3.0	8.0	9999	2014	N	1			1							
Upbound	Domestic	4	000764	1591	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2014	N	1			1							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	224	2014	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2014	N	2			2							
Upbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2014	N	1			1							
Upbound	Domestic	5	1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2014		4									4	
Upbound	Domestic	5	1038	2000	155.1	54.0	2	10.0	2.0	0.0	180	2014		1									1	
Upbound	Domestic	3	349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2014		3		3								
Upbound	Domestic	5	001619	3517	297.0	54.0	1	10.0	0.6	0.4	280	2014		1									1	
Upbound	Domestic	5	1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2014		2					2					
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2014	N	5			5							
Upbound	Domestic	4	000700	2187	200.0	35.0	7	12.0	1.7	5.3	250	2014	N	1			1							
Upbound	Domestic	5	847	1450	195.0	35.0	8	9.0	1.1	6.9	170	2014	N	3					3					
Upbound	Domestic	4	745	1916	195.0	35.0	11	11.0	1.5	9.5	149	2014	N	5			5							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	9.0	2.0	10.0	9999	2014	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	170	2014	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2014	N	1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2014	N	10			10							
Upbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2014	N	1			1							
Upbound	Domestic	4	764	1527	200.0	35.0	9	9.0	1.8	7.2	205	2014	N	1			1							
Upbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2014	N	2							2			
Upbound	Domestic	5	001623	3200	297.7	54.1	2	9.0	2.0	0.0	180	2014		5									5	
Upbound	Domestic	4	823	1643	200.0	35.0	2	12.0	1.5	0.5	9999	2014	N	1							1			
Upbound	Domestic	4	000823	1641	200.0	35.0	2	9.0	1.4	0.6	160	2014	N	1							1			
Upbound	Domestic	5	001619	4857	297.5	54.0	1	10.0	2.0	-1.0	280	2014		1									1	
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2014		2									2	
Upbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	8			8							
Upbound	Domestic	4	470	1200	160.0	35.0	3	8.5	1.5	1.5	100	2014		3							3			
Upbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2014	N	1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	3			3							
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2014	N	6			6							
Upbound	Domestic	4	000764	1765	200.0	35.0	10	11.0	2.0	8.0	165	2014	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2014	N	3			3							
Upbound	Domestic	4	764	1855	200.0	35.0	8	10.0	1.5	6.5	165	2014	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	9	10.0	1.4	7.6	210	2014	N	1			1							
Upbound	Domestic	5	1634	2900	264.0	54.0	2	10.0	2.0	0.0	180	2014		3									3	
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2014		2		2								
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2014	N	3							3			
Upbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2014	N	1							1			
Upbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.5	8.5	165	2014		1			1							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2014		1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2014		2			2							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2014	N	14			14							
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2014		30			30							
Upbound	Domestic	4	000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2014		2			2							
Upbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2014	N	4			4							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2014	N	5			5							
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2014	N	7			7							
Upbound	Domestic	4	764	1668	200.0	35.0	6	9.0	1.4	4.6	147	2014	N	2			2							
Upbound	Domestic	4	764	1625	200.0	35.0	8	9.0	1.7	6.3	155	2014	N	1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2014	N	3			3							
Upbound	Domestic	4	000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2014	N	2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2014	N	4			4							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2014	N	4			4							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2014	N	1			1							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2014	N	3			3							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2014	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	10	10.0	3.0	7.0	230	2014	N	1			1							
Upbound	Domestic	5	914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2014		6									6	
Upbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2014		27		27								
Upbound	Domestic	5	001623	32000	297.7	54.1	2	9.0	2.0	0.0	180	2014		4									4	
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2014		1									1	
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2014		2			2							
Upbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2014	N	19			19							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2014	N	3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2014	N	3			3							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2014	N	2			2							
Upbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2014	N	2			2							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2014	N	2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	10	12.0	1.5	8.5	195	2014	N	2			2							
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2014	N	3			3							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2014	N	6			6							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2014	N	9					9					
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2014	N	4			4							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2014		8			8							
Upbound	Domestic	4	000764	1551	200.0	35.0	7	9.0	1.6	5.4	225	2014	N	2			2							
Upbound	Domestic	4	000202	590	120.0	45.0	7	6.6	1.0	6.0	70	2014	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	5			5							
Upbound	Domestic	4	745	1485	195.0	35.0	2	9.0	1.8	0.2	225	2014	N	1							1			
Upbound	Domestic	4	705	1546	200.0	35.0	2	9.0	1.5	0.5	223	2014	N	1							1			
Upbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2014	N	1							1			
Upbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2014	N	1							1			
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2014		29			29							
Upbound	Domestic	4	000764	1633	200.0	35.0	12	9.0	1.6	10.4	225	2014	N	1			1							
Upbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	10			10							
Upbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	6			6							
Upbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2014	N	3			3							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	223	2014	N	1			1							
Upbound	Domestic	5	001918	3100	297.5	54.0	9	10.3	2.0	7.0	193	2014		1					1					
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2014	N	1			1							
Upbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2014		1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2014	N	2			2							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2014	N	4			4							
Upbound	Domestic	4	705	1667	200.0	35.0	8	9.0	1.7	6.3	170	2014	N	1			1							
Upbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2014	N	2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2014	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2014	N	1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2014	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	7	12.0	1.8	5.2	219	2014	N	1			1							
Upbound	Domestic	5	795	1475	195.0	35.0	8	9.0	1.8	6.2	178	2014	N	1					1					
Upbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	200	2014	N	1			1							
Upbound	Domestic	4	687	1500	195.0	35.0	9	9.0	1.6	7.4	210	2014	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	5	10.0	3.0	2.0	135	2014	N	1							1			
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2014		3									3	
Upbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2014		1		1								
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2014	N	17			17							
Upbound	Domestic	4	933	1658	200.0	35.0	7	9.0	1.6	5.4	177	2014	N	2			2							
Upbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2014	N	1			1							
Upbound	Domestic	5	835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2014	N	4					4					
Upbound	Domestic	4	000745	1497	195.0	35.0	6	9.0	1.6	4.4	139	2014	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	11	14.0	1.6	9.4	140	2014	N	1			1							
Upbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2014	N	2			2							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2014	N	5			5							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2014	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	3.0	5.0	9999	2014	N	1			1							
Upbound	Domestic	4	706	1563	200.0	35.0	5	9.0	1.7	3.3	205	2014	N	1			1							
Upbound	Domestic	5	1152	1800	148.8	54.0	2	10.0	2.0	0.0	180	2014		3									3	
Upbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2014	N	2							2			
Upbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2014	N	2			2							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2014		3			3							
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2014		7			7							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	255	2014	N	1			1							
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2014	N	3			3							
Upbound	Domestic	4	764	2100	200.0	35.0	8	12.0	1.5	6.5	208	2014	N	1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2014		1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2014		1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2014		1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2014	N	12			12							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2014	N	18			18							
Upbound	Domestic	4	770	1889	200.0	35.0	8	10.0	1.5	6.5	149	2014	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2014	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2014	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2014	N	6			6							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2014	N	4			4							
Upbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2014	N	1			1							
Upbound	Domestic	5	820	1422	195.0	35.0	8	9.0	1.1	6.9	194	2014	N	1					1					
Upbound	Domestic	4	000764	2090	200.0	35.0	9	11.0	1.8	7.2	170	2014		1			1							
Upbound	Domestic	4	000687	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2014	N	3			3							
Upbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2014	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2014		1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2014	N	19			19							
Upbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2014	N	8			8							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2014	N	1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	3			3							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2014	N	5			5							
Upbound	Domestic	4	000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2014		1			1							
Upbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2014	N	3			3							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2014	N	12			12							
Upbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2014		2			2							
Upbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2014	N	1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2014	N	2			2							
Upbound	Domestic	4	000764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	1			1							
Upbound	Domestic	4	764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2014	N	1			1							
Upbound	Domestic	5	820	1422	195.0	35.0	9	9.0	1.1	7.9	194	2014	N	1					1					
Upbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2014	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2014	N	1			1							
Upbound	Domestic	5	1619	4298	297.5	54.0	2	12.0	2.0	0.0	220	2014		2									2	
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2014	N	4			4							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2014		3			3							
Upbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2014	N	5			5							
Upbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	8			8							
Upbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2014	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	255	2014	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	6	9.0	1.4	4.6	165	2014	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	7	12.0	1.8	5.2	170	2014		1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2014		19		19								
Upbound	Domestic	4	000764	1534	200.0	35.0	5	9.0	1.7	3.3	199	2014	N	1			1							
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2014		2		2								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	601	1400	195.0	35.0	7	10.0	2.0	5.0	110	2014		113			113							
Upbound	Domestic	4	764	1616	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2014	N	6			6							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	12			12							
Upbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2014	N	1			1							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2014		2			2							
Upbound	Domestic	4	000823	2300	200.0	35.0	10	13.0	1.6	8.4	165	2014	N	1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	8	11.0	1.5	6.5	177	2014	N	1			1							
Upbound	Domestic	5	000735	1420	200.0	35.0	9	10.0	1.6	7.4	182	2014	N	1					1					
Upbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2014	N	2			2							
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2014		3									3	
Upbound	Domestic	3	000103	344	110.0	32.0	11	10.3	8.6	2.4	360	2014		1		1								
Upbound	Domestic	4	745	1915	195.0	35.0	2	11.0	1.7	0.3	224	2014	N	1							1			
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2014		1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014		3			3							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2014	N	7			7							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2014		1			1							
Upbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	2			2							
Upbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2014	N	3			3							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2014	N	2			2							
Upbound	Domestic	4	000764	2200	200.0	35.0	7	10.0	3.0	4.0	9999	2014	N	2			2							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2014	N	3			3							
Upbound	Domestic	4	687	1501	195.0	35.0	11	10.0	1.5	9.5	186	2014	N	1			1							
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2014	N	1					1					
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2014		13		13								
Upbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.5	0.5	165	2014	N	1							1			
Upbound	Domestic	4	000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2014		1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2014	N	7			7							
Upbound	Domestic	4	933	1527	195.0	35.0	10	12.0	1.5	8.5	199	2014	N	2			2							
Upbound	Domestic	4	705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2014	N	1			1							
Upbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2014	N	5			5							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	6			6							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2014	N	3			3							
Upbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2014	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	205	2014	N	1			1							
Upbound	Domestic	5	1697	1800	296.7	54.0	2	9.0	1.6	0.4	90	2014		2									2	
Upbound	Domestic	4	687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2014	N	2							2			
Upbound	Domestic	4	000719	1665	200.0	35.0	2	9.0	2.0	0.0	130	2014	N	1							1			
Upbound	Domestic	5	860	1800	195.0	35.0	9	10.7	2.0	7.0	150	2014		4					4					
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2014	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2014		1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2014		5			5							
Upbound	Domestic	4	823	2188	200.0	35.0	10	12.0	1.6	8.4	225	2014	N	1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2014	N	3			3							
Upbound	Domestic	4	764	1537	200.0	35.0	9	9.0	1.8	7.2	225	2014	N	2			2							
Upbound	Domestic	4	000706	1569	200.0	35.0	7	9.0	1.6	5.4	215	2014	N	1			1							
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2014		1		1								
Upbound	Domestic	5	1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2014		1					1					
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2014		1		1								
Upbound	Domestic	4	706	1507	200.0	35.0	2	9.0	1.9	0.1	215	2014	N	1							1			
Upbound	Domestic	4	823	1750	200.0	35.0	2	10.0	1.6	0.4	165	2014	N	1							1			
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2014	N	11			11							
Upbound	Domestic	4	764	1652	200.0	35.0	7	9.0	1.5	5.5	217	2014	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	7	10.0	3.0	4.0	206	2014		1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	4	10.0	1.5	2.5	149	2014	N	1			1							
Upbound	Domestic	5	000735	1521	200.0	35.0	12	12.5	2.0	10.0	201	2014	N	2					2					
Upbound	Domestic	4	000745	1705	195.0	35.0	10	10.0	1.6	8.4	139	2014	N	1			1							
Upbound	Domestic	4	687	1577	195.0	35.0	9	9.0	1.8	7.2	170	2014	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	1			1							
Upbound	Domestic	5	774	1400	195.0	35.0	9	9.0	1.6	7.4	180	2014	N	1					1					
Upbound	Domestic	4	000764	1610	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2014	N	2			2							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2014	N	2			2							
Upbound	Domestic	4	000764	1506	200.0	35.0	4	9.0	1.9	2.1	206	2014		1			1							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	1.5	0.5	180	2014		1									1	
Upbound	Domestic	3	000132	443	110.0	32.0	2	10.3	8.6	-6.6	456	2014		1		1								
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2014	N	35			35							
Upbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2014	N	17			17							
Upbound	Domestic	4	764	1552	200.0	35.0	7	9.0	1.5	5.5	163	2014	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2014	N	2			2							
Upbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2014	N	2			2							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2014	N	5			5							
Upbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2014		1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2014		1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2014	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2014		3					3					
Upbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2014	N	1			1							
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2014		2									2	
Upbound	Domestic	3	000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2014		4		4								
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2014	N	4			4							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2014		3			3							
Upbound	Domestic	5	809	1487	195.0	35.0	8	9.0	1.8	6.2	213	2014	N	1					1					
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	160	2014	N	1			1							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.3	6.7	213	2014	N	1			1							
Upbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2014	N	1			1							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	210	2014	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2014	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2014	N	1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2014		23		23								
Upbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2014		29		29								
Upbound	Domestic	4	000764	1765	200.0	35.0	12	11.0	2.0	10.0	165	2014		1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2014	N	5			5							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2014	N	4			4							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	9999	2014	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2014	N	1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2014	N	1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2014	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	7	9.0	1.6	5.4	204	2014	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2014	N	9			9							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	200	2014	N	1			1							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2014	N	1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2014		24		24								
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2014		4									4	
Upbound	Domestic	5	1637	3300	297.5	54.0	2	9.0	2.0	0.0	170	2014	N	2									2	
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2014		2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2014	N	14			14							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2014	N	2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2014		2			2							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2014		1			1							
Upbound	Domestic	5	000825	1422	195.0	35.0	8	9.0	1.1	6.9	194	2014	N	1					1					
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2014	N	4			4							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2014	N	4			4							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2014	N	9			9							
Upbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2014	N	2			2							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2014		1					1					
Upbound	Domestic	4	764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2014	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2014	N	2			2							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014	N	5			5							
Upbound	Domestic	4	764	1517	200.0	35.0	5	9.0	1.9	3.1	225	2014	N	1			1							
Upbound	Domestic	4	764	1695	200.0	35.0	7	9.0	1.2	5.8	155	2014	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	165	2014	N	2							2			
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2014	N	4							4			
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2014	N	1			1							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2014	N	3			3							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	215	2014	N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2014		11							11			
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2014		1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2014	N	3			3							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2014	N	3			3							
Upbound	Domestic	4	764	1637	200.0	35.0	7	9.0	1.5	5.5	155	2014	N	2			2							
Upbound	Domestic	5	835	1426	195.0	35.0	11	12.0	3.0	8.0	136	2014	N	1					1					
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2014	N	7			7							
Upbound	Domestic	5	001754	3390	297.5	54.0	10	11.0	2.0	8.0	180	2014		2					2					
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2014	N	5			5							
Upbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2014	N	2			2							
Upbound	Domestic	4	000764	1616	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	1			1							
Upbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2014	N	1			1							
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2014		5		5								
Upbound	Domestic	5	001632	3526	300.0	54.0	2	10.0	2.3	-0.3	189	2014	N	1									1	
Upbound	Domestic	4	000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2014	N	1							1			
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2014		1									1	
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2014	N	2			2							
Upbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2014	N	4			4							
Upbound	Domestic	4	823	1750	200.0	35.0	7	10.0	1.7	5.3	165	2014		1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2014		2			2							
Upbound	Domestic	4	771	1660	200.0	35.0	9	9.0	1.4	7.6	218	2014	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2014		2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2014	N	4			4							
Upbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2014	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	6	9.0	1.5	4.5	205	2014	N	1			1							
Upbound	Domestic	4	745	1485	195.0	35.0	7	9.0	1.8	5.2	225	2014	N	1			1							
Upbound	Domestic	4	663	1892	200.0	35.0	9	10.0	1.4	7.6	140	2014	N	1			1							
Upbound	Domestic	4	000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2014	N	1			1							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2014	N	2			2							
Upbound	Domestic	5	2476	2500	310.0	50.0	2	9.0	2.5	-0.5	230	2014		1									1	
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2014		49		49								
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2014		3									3	
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2014	N	6			6							
Upbound	Domestic	4	000764	2651	200.0	35.0	8	9.0	1.6	6.4	206	2014		2			2							
Upbound	Domestic	4	764	1559	200.0	35.0	7	9.0	1.5	5.5	170	2014	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2014	N	7			7							
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2014	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	10.0	1.5	9.5	215	2014	N	1			1							
Upbound	Domestic	5	773	1489	195.1	35.1	8	9.0	1.8	6.2	165	2014	N	1					1					
Upbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2014		24		24								
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2014	N	3							3			
Upbound	Domestic	5	001619	3500	297.6	54.0	2	9.0	1.0	1.0	220	2014		1									1	
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2014	N	12			12							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	6			6							
Upbound	Domestic	4	764	1536	200.0	35.0	7	9.0	1.7	5.3	180	2014	N	1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2014	N	3			3							
Upbound	Domestic	5	000835	1404	195.0	35.0	9	9.0	2.0	7.0	178	2014	N	1					1					
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2014	N	2			2							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	149	2014	N	1			1							
Upbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2014	N	1			1							
Upbound	Domestic	4	764	1625	200.0	35.0	8	9.0	1.7	6.3	220	2014	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2014	N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.8	7.2	225	2014	N	1			1							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2014		2		2								
Upbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	191	2014	N	2							2			
Upbound	Domestic	4	764	1744	200.0	35.0	9	10.0	1.7	7.3	209	2014	N	1			1							
Upbound	Domestic	4	764	1647	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	1			1							
Upbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2014	N	2			2							
Upbound	Domestic	5	000735	1511	200.0	35.0	9	9.2	2.0	7.0	179	2014	N	1					1					
Upbound	Domestic	5	886	1489	195.0	35.0	8	9.0	1.3	6.7	164	2014	N	3					3					
Upbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2014	N	1			1							
Upbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2014	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	9	10.0	3.0	6.0	206	2014		1			1							
Upbound	Domestic	4	764	1608	200.0	35.0	9	9.0	1.5	7.5	225	2014	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2014	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	11.0	2.0	7.0	165	2014	N	1			1							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2014	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2014	N	2			2							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2014	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2014	N	1							1			
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2014	N	1									1	
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2014		2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2014	N	22			22							
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2014	N	4			4							
Upbound	Domestic	4	000764	1611	200.0	35.0	10	9.0	3.0	7.0	9999	2014	N	1			1							
Upbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	3			3							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	17			17							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2014	N	3			3							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2014	N	6			6							
Upbound	Domestic	4	856	2312	200.0	35.0	8	12.0	1.5	6.5	217	2014	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2014	N	1			1							
Upbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2014	N	3			3							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2014	N	3			3							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	170	2014	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	12.0	1.8	8.2	206	2014		2			2							
Upbound	Domestic	4	999999	1541	200.0	35.0	7	9.0	1.6	5.4	143	2014	N	1			1							
Upbound	Domestic	4	000823	2594	200.0	35.0	8	12.0	1.8	6.2	250	2014	N	1			1							
Upbound	Domestic	4	764	2150	200.0	35.0	9	11.5	1.7	7.3	163	2014	N	1			1							
Upbound	Domestic	4	000764	1869	200.0	35.0	9	10.0	3.0	6.0	191	2014	N	1			1							
Upbound	Domestic	5	2917	2400	295.0	52.5	2	9.0	2.0	0.0	320	2014		1									1	
Upbound	Domestic	3	000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2014		1		1								
Upbound	Domestic	5	1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2014		6									6	
Upbound	Domestic	4	000764	1530	200.0	35.0	2	9.0	1.7	0.3	209	2014	N	1							1			
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2014		2					2					
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2014	N	16			16							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2014	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2014	N	23			23							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	130	2014	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2014	N	1			1							
Upbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2014	N	10			10							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2014	N	2			2							
Upbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2014	N	2							2			
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2014	N	2			2							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2014	N	2			2							
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2014	N	2			2							
Upbound	Domestic	4	000802	1705	195.0	35.0	9	10.0	1.5	7.5	140	2014	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2014	N	1			1							
Upbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2014		1		1								
Upbound	Domestic	4	723	1635	200.0	35.0	2	9.0	1.5	0.5	205	2014	N	1							1			
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2014	N	1							1			
Upbound	Domestic	4	764	1900	200.0	35.0	2	10.0	1.5	0.5	191	2014	N	1							1			
Upbound	Domestic	5	2082	3300	297.5	54.0	2	10.8	2.0	0.0	197	2014	N	3									3	
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2014	N	6			6							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2014	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2014	N	3			3							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2014	N	3			3							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2014	N	2			2							
Upbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	149	2014	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2014	N	6			6							
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2014	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	165	2014	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2014	N	2			2							
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2014	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2014	N	3			3							
Upbound	Domestic	4	000764	2292	200.0	35.0	6	12.0	2.0	4.0	135	2014	N	1			1							
Upbound	Domestic	4	763	2290	195.0	35.0	8	12.0	1.7	6.3	235	2014	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2014	N	4			4							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	7			7							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2014	N	20							20			
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2014	N	13			13							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	5			5							
Upbound	Domestic	4	823	2295	200.0	35.0	9	12.0	1.4	7.6	227	2014		1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2014		2			2							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	213	2014	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2014	N	2			2							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2014	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2014	N	1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2014	N	2			2							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2014	N	2			2							
Upbound	Domestic	4	764	1854	200.0	35.0	9	10.0	1.6	7.4	224	2014	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2014	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.6	5.4	170	2014	N	1			1							
Upbound	Domestic	4	000764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2014	N	1			1							
Upbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2014		1							1			
Upbound	Domestic	4	471	1510	195.0	35.0	2	9.0	1.6	0.4	119	2014	N	1							1			
Upbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2014	N	1							1			
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2014		1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2014	N	4			4							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2014	N	3			3							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2014	N	3			3							
Upbound	Domestic	5	000705	2300	200.0	35.0	5	8.0	1.0	4.0	120	2014	N	1					1					
Upbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	169	2014	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2014	N	7			7							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2014	N	2			2							
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	5			5							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	160	2014	N	1			1							
Upbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2014	N	1			1							
Upbound	Domestic	4	000705	1650	200.0	35.0	13	12.0	1.5	11.5	208	2014	N	1			1							
Upbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2014	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2014	N	2							2			
Upbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2014	N	1							1			
Upbound	Domestic	4	764	1517	200.0	35.0	2	9.0	1.9	0.1	225	2014	N	2							2			
Upbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2014		2					2					
Upbound	Domestic	4	764	2200	200.0	35.0	2	8.0	2.0	0.0	165	2014	N	1							1			
Upbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	208	2014	N	1							1			
Upbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	177	2014	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	216	2014	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2014	N	8			8							
Upbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.5	7.5	160	2014	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	8			8							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2014	N	5			5							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2014	N	6			6							
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2014		6		6								
Upbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2014		1		1								
Upbound	Domestic	5	001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2014		4									4	
Upbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2014	N	3							3			
Upbound	Domestic	4	933	1674	250.0	54.0	9	11.0	1.5	7.5	177	2014	N	3			3							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2014	N	9					9					
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	17			17							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2014	N	11			11							
Upbound	Domestic	4	705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2014	N	2			2							
Upbound	Domestic	4	000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	2			2							
Upbound	Domestic	4	687	1505	195.0	35.0	9	9.0	1.8	7.2	200	2014	N	1			1							
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2014		1									1	
Upbound	Domestic	4	000609	2190	200.0	35.0	2	12.0	2.0	0.0	260	2014	N	2							2			
Upbound	Domestic	5	001633	4744	300.0	54.0	2	11.6	2.3	-0.3	189	2014	N	1									1	
Upbound	Domestic	4	764	1647	200.0	35.0	2	9.0	1.2	0.8	205	2014	N	1							1			
Upbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.8	0.2	225	2014	N	1							1			
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2014		1		1								
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2014		1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	6	10.0	1.5	4.5	140	2014	N	1			1							
Upbound	Domestic	5	687	1516	195.0	35.0	8	9.0	1.0	7.0	150	2014	N	1					1					
Upbound	Domestic	4	764	1668	200.0	35.0	7	9.0	1.4	5.6	160	2014	N	2			2							
Upbound	Domestic	4	000706	1534	200.0	35.0	9	9.0	1.8	7.2	205	2014	N	2			2							
Upbound	Domestic	4	764	1504	200.0	35.0	7	9.0	1.5	5.5	189	2014	N	1			1							
Upbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2014	N	1			1							
Upbound	Domestic	4	000764	1765	200.0	35.0	12	13.0	2.0	10.0	165	2014	N	1			1							
Upbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2014		2			2							
Upbound	Domestic	4	764	2000	200.0	35.0	2	12.0	1.5	0.5	9999	2014	N	1							1			
Upbound	Domestic	4	000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2014	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	13	12.0	1.5	11.5	215	2014	N	1			1							
Upbound	Domestic	4	573	1250	195.0	35.0	8	10.0	2.0	6.0	110	2014		18			18							
Upbound	Domestic	4	764	1990	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	2			2							
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.7	6.3	206	2014		1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2014	N	9			9							
Upbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.5	7.5	165	2014	N	1			1							
Upbound	Domestic	5	835	1404	195.0	35.0	8	9.0	2.0	6.0	178	2014	N	1					1					
Upbound	Domestic	5	1876	3400	297.5	54.0	2	10.0	2.0	0.0	170	2014		1									1	
Upbound	Domestic	5	2043	4390	297.5	54.0	2	9.3	1.5	0.5	220	2014	N	1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2014	N	43			43							
Upbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2014	N	2			2							
Upbound	Domestic	5	773	1811	195.0	35.0	8	10.5	2.0	6.0	170	2014		1					1					
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2014	N	1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2014	N	2			2							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014	N	7			7							
Upbound	Domestic	4	000687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	3			3							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2014	N	3			3							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	165	2014	N	1			1							
Upbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2014		3		3								
Upbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2014		205		205								
Upbound	Domestic	4	000823	2300	200.0	35.0	10	12.0	1.5	8.5	165	2014		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014		6			6							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2014		1			1							
Upbound	Domestic		5 809	1487	195.0	35.0	9	9.0	1.8	7.2	213	2014		1					1					
Upbound	Domestic		4 764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2014	N	1			1							
Upbound	Domestic		4 764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2014	N	3			3							
Upbound	Domestic		4 000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2014	N	4			4							
Upbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.5	7.5	165	2014	N	1			1							
Upbound	Domestic		4 705	9100	200.0	35.0	9	10.0	1.4	7.6	208	2014	N	1			1							
Upbound	Domestic		4 764	1608	200.0	35.0	7	9.0	1.5	5.5	225	2014	N	1			1							
Upbound	Domestic		4 727	1768	200.0	35.0	5	10.0	1.6	3.4	149	2014	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	7	12.0	2.0	5.0	228	2014	N	1			1							
Upbound	Domestic		4 000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2014		1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2014	N	1			1							
Upbound	Domestic		4 764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2014	N	2			2							
Upbound	Domestic		3 163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2014		24		24								
Upbound	Domestic		4 000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2014	N	1							1			
Upbound	Domestic		4 764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2014	N	2			2							
Upbound	Domestic		4 764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2014		1			1							
Upbound	Domestic		4 000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2014		1			1							
Upbound	Domestic		4 000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2014	N	11			11							
Upbound	Domestic		4 705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2014	N	4			4							
Upbound	Domestic		5 001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2014		1					1					
Upbound	Domestic		4 764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2014	N	3			3							
Upbound	Domestic		4 745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2014	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	9999	2014	N	2			2							
Upbound	Domestic		4 000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2014	N	5			5							
Upbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	180	2014	N	1			1							
Upbound	Domestic		4 000764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	1			1							
Upbound	Domestic		4 823	1643	200.0	35.0	12	12.0	1.5	10.5	9999	2014	N	1			1							
Upbound	Domestic		4 799	1887	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2014	N	2							2			
Upbound	Domestic		5 2264	4289	297.0	54.0	2	10.0	2.0	0.0	200	2014	N	1									1	
Upbound	Domestic		4 470	1200	160.0	35.0	6	8.5	1.5	4.5	100	2014		18			18							
Upbound	Domestic		4 799	1893	200.0	35.0	5	10.0	1.5	3.5	149	2014	N	1			1							
Upbound	Domestic		4 764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2014	N	1			1							
Upbound	Domestic		4 764	1603	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	1			1							
Upbound	Domestic		4 000764	1648	200.0	35.0	11	13.0	2.0	9.0	208	2014	N	1			1							
Upbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2014	N	3			3							
Upbound	Domestic		4 000764	1618	200.0	35.0	10	9.0	3.0	7.0	9999	2014	N	1			1							
Upbound	Domestic		4 764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2014	N	1			1							
Upbound	Domestic		5 1861	5250	356.0	54.0	2	13.0	2.0	0.0	220	2014		1									1	
Upbound	Domestic		5 1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2014		6									6	
Upbound	Domestic		4 705	1893	200.0	35.0	2	10.0	1.4	0.6	205	2014	N	1							1			
Upbound	Domestic		5 2033	4196	297.0	54.0	2	9.0	2.0	0.0	198	2014	N	2									2	
Upbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2014		3			3							
Upbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2014		2			2							
Upbound	Domestic		4 705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2014	N	1			1							
Upbound	Domestic		4 687	1605	195.0	35.0	9	9.5	0.5	8.5	146	2014	N	1			1							
Upbound	Domestic		5 812	1388	195.0	35.0	8	9.0	2.1	5.9	140	2014	N	1					1					
Upbound	Domestic		4 000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2014	N	1			1							
Upbound	Domestic		4 000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2014	N	2			2							
Upbound	Domestic		4 000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	1			1							
Upbound	Domestic		4 687	1522	195.0	35.0	8	9.0	1.6	6.4	165	2014	N	1			1							
Upbound	Domestic		4 862	1736	195.0	35.0	8	10.0	1.5	6.5	192	2014	N	1			1							
Upbound	Domestic		4 783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2014	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2014	N	8			8							
Upbound	Domestic		4 573	1500	195.0	35.0	7	10.0	2.0	5.0	110	2014		334			334							
Upbound	Domestic		4 000764	1750	200.0	35.0	10	10.0	1.5	8.5	214	2014	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	12	14.0	1.6	10.4	140	2014	N	2			2							
Upbound	Domestic		4 000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2014	N	11			11							
Upbound	Domestic		4 000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2014	N	4			4							
Upbound	Domestic		4 000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2014	N	6			6							
Upbound	Domestic		4 687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	2			2							
Upbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.7	8.3	195	2014	N	1			1							
Upbound	Domestic		4 705	1501	200.0	35.0	11	12.0	1.5	9.5	186	2014	N	1			1							
Upbound	Domestic		5 000705	1650	200.0	35.0	9	9.6	2.0	7.0	189	2014	N	1					1					
Upbound	Domestic		4 000764	1750	200.0	35.0	7	10.0	1.5	5.5	191	2014	N	1			1							
Upbound	Domestic		5 000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2014	N	2					2					
Upbound	Domestic		4 705	1699	200.0	35.0	8	9.0	1.2	6.8	146	2014	N	1			1							
Upbound	Domestic		4 705	1556	200.0	35.0	9	9.0	1.5	7.5	216	2014	N	1			1							
Upbound	Domestic		4 823	1640	200.0	35.0	7	9.0	1.5	5.5	235	2014	N	1			1							
Upbound	Domestic		4 000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2014	N	1			1							
Upbound	Domestic		4 802	1670	200.0	35.0	5	9.0	2.0	3.0	139	2014	N	1			1							
Upbound	Domestic		4 000764	1539	200.0	35.0	7	9.0	1.7	5.3	225	2014	N	1			1							
Upbound	Domestic		4 745	1915	195.0	35.0	7	11.0	1.7	5.3	224	2014	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2014	N	2			2							
Upbound	Domestic		4 705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2014	N	1			1							
Upbound	Domestic		5 1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2014		3									3	
Upbound	Domestic		5 001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2014		2									2	
Upbound	Domestic		4 000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2014	N	3							3			
Upbound	Domestic		4 705	1651	200.0	35.0	8	9.0	2.0	6.0	196	2014	N	1			1							
Upbound	Domestic		4 706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2014	N	1			1							
Upbound	Domestic		4 764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	3			3							
Upbound	Domestic		4 000764	1862	200.0	35.0	10	10.0	1.6	8.4	191	2014	N	1			1							
Upbound	Domestic		4 764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2014	N	7			7							
Upbound	Domestic		4 764	1648	200.0	35.0	11	13.0	1.5	9.5	255	2014	N	1			1							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2014	N	4			4							
Upbound	Domestic		4 000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2014	N	1			1							
Upbound	Domestic		4 000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2014		1			1							
Upbound	Domestic		4 764	2292	200.0	35.0	8	12.0	1.5	6.5	210	2014	N	1			1							
Upbound	Domestic		4 705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2014	N	1			1							
Upbound	Domestic		4 802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2014	N	1			1							
Upbound	Domestic		4 000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2014	N	1							1			
Upbound	Domestic		4 856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2014	N	1							1			
Upbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2014	N	2			2							
Upbound	Domestic		4 000719	1665	200.0	35.0	9	9.0	2.0	7.0	130	2014		1			1							
Upbound	Domestic		4 764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2014	N	10			10							
Upbound	Domestic		4 764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	17			17							
Upbound	Domestic		4 564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2014	N	3			3							
Upbound	Domestic		4 000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2014	N	2			2							
Upbound	Domestic		4 000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2014	N	6			6							
Upbound	Domestic		5 000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2014		1					1					
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2014	N	2			2							
Upbound	Domestic		4 745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2014	N	1			1							
Upbound	Domestic		4 000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2014	N	1							1			
Upbound	Domestic		4 000764	1636	200.0	35.0	2	9.0	1.5	0.5	155	2014	N	1							1			
Upbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2014	N	33			33							
Upbound	Domestic		4 000764	1619	200.0	35.0	9	9.0	1.7	7.3	206	2014		1			1							
Upbound	Domestic		4 000764	1705	200.0	35.0	10	10.0	1.5	8.5	139	2014	N	1			1							
Upbound	Domestic		4 705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2014	N	2			2							
Upbound	Domestic		5 788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2014	N	2					2					
Upbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2014	N	3			3							
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014	N	5			5							
Upbound	Domestic		4 902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2014	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2014	N	1			1							
Upbound	Domestic		5 1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2014		4									4	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2014		1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2014	N	29			29							
Upbound	Domestic	4	573	1500	195.0	35.0	6	10.0	2.0	4.0	110	2014		25			25							
Upbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	6			6							
Upbound	Domestic	4	705	1648	200.0	35.0	10	12.0	1.5	8.5	186	2014	N	2			2							
Upbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2014	N	2			2							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2014	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2014	N	3			3							
Upbound	Domestic	4	799	1893	200.0	35.0	8	10.0	1.4	6.6	149	2014	N	1			1							
Upbound	Domestic	5	834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2014		4									4	
Upbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2014		1		1								
Upbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2014	N	1							1			
Upbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2014	N	3			3							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2014		3			3							
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2014	N	2			2							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2014		4			4							
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2014	N	2			2							
Upbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2014	N	10			10							
Upbound	Domestic	4	000802	1705	195.0	35.0	10	10.0	1.5	8.5	140	2014	N	4			4							
Upbound	Domestic	4	000764	1857	200.0	35.0	9	10.0	1.5	7.5	191	2014	N	1			1							
Upbound	Domestic	4	000764	1592	200.0	35.0	9	9.0	2.0	7.0	9999	2014	N	1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2014	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2014	N	1			1							
Upbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2014	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	1			1							
Upbound	Domestic	4	000764	1521	200.0	35.0	7	9.0	1.8	5.2	225	2014	N	1			1							
Upbound	Domestic	5	773	1489	195.0	35.0	9	9.0	1.3	7.7	165	2014	N	1					1					
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2014	N	8			8							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014		3			3							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2014	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2014		3			3							
Upbound	Domestic	4	000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	5			5							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2014	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2014	N	4			4							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2014	N	4			4							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2014	N	4			4							
Upbound	Domestic	4	000687	1462	195.0	35.0	9	9.0	1.9	7.1	205	2014	N	1			1							
Upbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2014		355		355								
Upbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2014		4									4	
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2014		2			2							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2014	N	13							13			
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2014	N	1			1							
Upbound	Domestic	4	190	541	110.0	30.0	7	7.0	1.0	6.0	70	2014	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2014		2					2					
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2014	N	3			3							
Upbound	Domestic	4	687	1531	195.0	35.0	6	9.0	1.6	4.4	205	2014	N	1			1							
Upbound	Domestic	4	823	2291	200.0	35.0	9	12.0	1.6	7.4	240	2014	N	1			1							
Upbound	Domestic	5	000735	1420	200.0	35.0	9	10.5	2.0	7.0	182	2014	N	1					1					
Upbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2014		2		2								
Upbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2014	N	1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2014		1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	10	10.0	1.8	8.2	206	2014		1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2014	N	5			5							
Upbound	Domestic	4	764	1695	200.0	35.0	8	9.0	1.2	6.8	155	2014	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	7	9.0	2.0	5.0	210	2014	N	1			1							
Upbound	Domestic	4	000764	1536	200.0	35.0	6	9.0	1.8	4.2	225	2014	N	1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	7	12.0	2.0	5.0	213	2014	N	1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	11	12.0	3.0	8.0	136	2014		1					1					
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2014	N	1			1							
Upbound	Domestic	3	429	999999	140.0	38.0	9	9.0	8.6	0.4	423	2014	N	1		1								
Upbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2014	N	1							1			
Upbound	Domestic	4	470	1200	160.0	35.0	9	8.5	1.5	7.5	100	2014		1			1							
Upbound	Domestic	4	764	2073	200.0	35.0	9	11.6	1.6	7.4	110	2014		1			1							
Upbound	Domestic	4	764	1666	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2014	N	4			4							
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2014	N	1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2014	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	6			6							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2014	N	7			7							
Upbound	Domestic	4	000705	1659	200.0	35.0	8	9.0	1.4	6.6	205	2014	N	1			1							
Upbound	Domestic	4	630	1450	195.0	35.0	8	8.0	1.5	6.5	136	2014	N	1			1							
Upbound	Domestic	4	000303	1200	173.8	48.0	13	12.8	2.0	11.0	9999	2014	N	1			1							
Upbound	Domestic	5	1455	3200	290.0	54.0	2	10.0	2.0	0.0	170	2014		2									2	
Upbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2014		4		4								
Upbound	Domestic	4	705	1774	200.0	35.0	2	10.0	1.6	0.4	170	2014	N	2							2			
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2014		1									1	
Upbound	Domestic	5	1992	2890	180.0	54.0	2	9.0	2.0	0.0	200	2014	N	1									1	
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2014	N	2			2							
Upbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2014	N	4			4							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2014	N	5			5							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	8			8							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2014		1			1							
Upbound	Domestic	4	599	1871	200.0	35.0	9	10.0	1.5	7.5	160	2014	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2014	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	1.7	7.3	160	2014	N	1			1							
Upbound	Domestic	4	000705	1619	200.0	35.0	9	9.0	1.6	7.4	205	2014	N	1			1							
Upbound	Domestic	5	2360	2500	270.0	50.0	2	9.0	3.0	-1.0	230	2014		2									2	
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2014	N	5			5							
Upbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2014		1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2014	N	3			3							
Upbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2014	N	1			1							
Upbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	160	2014	N	1			1							
Upbound	Domestic	4	764	1673	200.0	35.0	9	9.0	1.4	7.6	165	2014	N	1			1							
Upbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2014	N	2			2							
Upbound	Domestic	4	000764	1862	200.0	35.0	7	10.0	1.5	5.5	191	2014	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2014	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2014	N	1			1							
Upbound	Domestic	4	823	1535	200.0	35.0	8	9.0	1.7	6.3	260	2014	N	1			1							
Upbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2014	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2014	N	1			1							
Upbound	Domestic	4	000764	1533	200.0	35.0	8	9.0	1.6	6.4	230	2014	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	12	10.0	1.9	10.1	206	2014		1			1							
Upbound	Domestic	4	745	2345	195.0	35.0	8	13.0	1.6	6.4	209	2014	N	1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2014	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	130	2014	N	1			1							
Upbound	Domestic	4	000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2014	N	1			1							
Upbound	Domestic	4	1033	1600	200.0	35.0	9	9.0	1.6	7.4	170	2014	N	1			1							
Upbound	Domestic	3	170	999999	85.0	30.0	7	7.6	7.6	-0.6	320	2014		1		1								
Upbound	Domestic	4	705	2300	200.0	35.0	2	9.0	1.4	0.6	160	2014	N	1							1			
Upbound	Domestic	5	001619	3612	300.0	54.0	2	9.3	2.0	0.0	190	2014	N	1									1	
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2014		1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2014		3			3							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2014		2			2							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2014	N	2			2							
Upbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2014		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2014	N	26			26							
Upbound	Domestic	4	000764	1865	200.0	35.0	9	10.0	1.5	7.5	139	2014	N	2			2							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2014	N	1			1							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2014	N	3			3							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2014	N	7			7							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2014	N	5			5							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2014	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	10	10.0	1.8	8.2	170	2014		1			1							
Upbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2014	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.5	7.5	215	2014	N	1			1							
Upbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2014	N	1			1							
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2014		23		23								
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2014		2			2							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2014	N	10			10							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2014	N	3			3							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2014	N	4			4							
Upbound	Domestic	4	764	1657	200.0	35.0	5	9.0	1.5	3.5	170	2014	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2014	N	3			3							
Upbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2014	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2014	N	5			5							
Upbound	Domestic	4	000764	1705	200.0	35.0	10	10.0	1.5	8.5	140	2014	N	8			8							
Upbound	Domestic	4	764	1662	200.0	35.0	8	9.0	1.5	6.5	210	2014	N	1			1							
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2014	N	3			3							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2014	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2014	N	4			4							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2014		1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2014	N	2			2							
Upbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2014	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	9	9.0	1.7	7.3	215	2014	N	1			1							
Upbound	Domestic	5	1816	5450	356.0	54.0	2	13.0	2.0	0.0	220	2014		1									1	
Upbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2014		2			2							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	6			6							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2014	N	2			2							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2014	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2014		4			4							
Upbound	Domestic	4	802	1481	195.0	35.0	11	11.0	1.8	9.2	250	2014		1			1							
Upbound	Domestic	4	000687	1462	195.0	35.0	6	9.0	1.9	4.1	205	2014	N	1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2014	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2014	N	2			2							
Upbound	Domestic	5	1659	2500	295.0	54.0	2	9.0	2.0	0.0	90	2014		1									1	
Upbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2014	N	1							1			
Upbound	Domestic	4	000705	1650	200.0	35.0	2	12.0	1.5	0.5	208	2014	N	1							1			
Upbound	Domestic	5	2264	4289	297.0	54.0	2	9.0	2.0	0.0	200	2014	N	1									1	
Upbound	Domestic	5	000825	1485	195.0	35.0	9	9.0	1.8	7.2	194	2014		1					1					
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2014	N	1			1							
Upbound	Domestic	4	470	1200	160.0	35.0	5	8.5	1.5	3.5	100	2014		2			2							
Upbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2014		5			5							
Upbound	Domestic	4	000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2014	N	1			1							
Upbound	Domestic	4	000764	1521	200.0	35.0	5	9.0	1.8	3.2	225	2014	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2014	N	19			19							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2014	N	6			6							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2014	N	3			3							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2014	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	10	12.0	1.8	8.2	170	2014		1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	180	2014	N	1			1							
Upbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2014	N	2			2							
Upbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2014	N	2			2							
Upbound	Domestic	4	000764	1858	200.0	35.0	9	10.0	1.6	7.4	191	2014	N	1			1							
Upbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2014		206		206								
Upbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2014		1		1								
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2014		3			3							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2014	N	18			18							
Upbound	Domestic	4	000745	2292	200.0	35.0	8	12.0	2.0	6.0	216	2014	N	3			3							
Upbound	Domestic	4	470	1200	160.0	35.0	7	8.5	1.5	5.5	100	2014		18			18							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2014		24			24							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2014	N	1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2014	N	3			3							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2014	N	4			4							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2014	N	3			3							
Upbound	Domestic	4	000823	2475	200.0	35.0	8	12.0	3.0	5.0	225	2014	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2014	N	1			1							
Upbound	Domestic	4	727	1772	200.0	35.0	7	10.0	1.5	5.5	148	2014	N	1			1							
Upbound	Domestic	4	000706	1626	200.0	35.0	8	9.0	1.3	6.7	145	2014	N	1			1							
Upbound	Domestic	5	1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2014		3									3	
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2014	N	3			3							
Upbound	Domestic	4	573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2014		199			199							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2014		1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2014	N	5			5							
Upbound	Domestic	4	000745	1497	195.0	35.0	7	9.0	1.6	5.4	139	2014	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2014	N	2			2							
Upbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2014		2			2							
Upbound	Domestic	5	773	1489	195.0	35.0	8	9.0	1.3	6.7	160	2014	N	1					1					
Upbound	Domestic	5	1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2014		6									6	
Upbound	Domestic	4	000764	2528	200.0	35.0	2	13.0	1.5	0.5	155	2014	N	1							1			
Upbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2014		1									1	
Upbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2014		4			4							
Upbound	Domestic	4	000764	1560	200.0	35.0	11	9.0	3.0	8.0	9999	2014	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2014	N	4			4							
Upbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2014	N	2			2							
Upbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2014	N	8			8							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2014	N	2			2							
Upbound	Domestic	4	764	1875	200.0	35.0	6	10.0	1.7	4.3	191	2014	N	1			1							
Upbound	Domestic	4	764	1615	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	1			1							
Upbound	Domestic	5	1876	3300	297.5	54.0	2	9.6	2.0	0.0	220	2014		4									4	
Upbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2014		27		27								
Upbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2014	N	2							2			
Upbound	Domestic	5	1619	4528	300.0	54.0	2	9.3	2.0	0.0	190	2014	N	1									1	
Upbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2014	N	1							1			
Upbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2014	N	2			2							
Upbound	Domestic	4	802	2544	195.0	35.0	7	14.0	1.7	5.3	210	2014	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	148	2014	N	3			3							
Upbound	Domestic	4	705	1877	200.0	35.0	8	10.0	1.4	6.6	146	2014	N	1			1							
Upbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2014	N	2			2							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2014	N	5			5							
Upbound	Domestic	4	000764	1858	200.0	35.0	8	10.0	1.6	6.4	191	2014	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2014	N	3			3							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014	N	2			2							
Upbound	Domestic	4	705	1885	200.0	35.0	8	9.0	1.4	6.6	208	2014	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2014	N	3			3							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2014	N	2			2							
Upbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2014		1			1							
Upbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2014	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2014	N	1			1							
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2014		6									6	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2014		3									3	
Upbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	208	2014	N	1							1			
Upbound	Domestic	4	764	1548	200.0	35.0	2	9.0	1.7	0.3	212	2014	N	1							1			
Upbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2014	N	4									4	
Upbound	Domestic	4	745	2077	195.0	35.0	2	9.0	1.5	0.5	215	2014	N	1							1			
Upbound	Domestic	3	194	999999	101.0	30.0	7	9.4	8.0	-1.0	360	2014		2		2								
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2014		1			1							
Upbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2014	N	2			2							
Upbound	Domestic	5	835	1662	195.0	35.0	8	10.0	1.9	6.1	149	2014		2					2					
Upbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2014		2			2							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2014		2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2014		2			2							
Upbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2014	N	1			1							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2014	N	3			3							
Upbound	Domestic	4	764	1518	200.0	35.0	6	9.0	1.8	4.2	205	2014	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2014	N	2			2							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	180	2014	N	1			1							
Upbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2014	N	3									3	
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2014		4			4							
Upbound	Domestic	4	000764	1640	200.0	35.0	8	9.0	1.5	6.5	160	2014	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2014	N	11			11							
Upbound	Domestic	4	000764	1581	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	1			1							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	2			2							
Upbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2014	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.7	6.3	160	2014	N	2			2							
Upbound	Domestic	5	785	1489	195.1	35.1	8	9.0	2.0	6.0	184	2014	N	1					1					
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2014	N	2			2							
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2014		10									10	
Upbound	Domestic	4	000823	1536	200.0	35.0	2	9.0	1.7	0.3	140	2014	N	2							2			
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014		2			2							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2014	N	5			5							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2014		5			5							
Upbound	Domestic	4	000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2014		2			2							
Upbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	120	2014		1			1							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2014	N	2			2							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2014	N	2			2							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2014		1			1							
Upbound	Domestic	4	705	1551	200.0	35.0	7	9.0	1.5	5.5	224	2014	N	1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	2	9.0	1.5	0.5	210	2014	N	1							1			
Upbound	Domestic	4	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2014	N	1							1			
Downbound	Domestic	4	000764	1521	200.0	35.0	9	9.0	1.8	7.2	225	2014	N	2				2						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2014	N	5				5						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2014	N	2				2						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2014	N	4				4						
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2014	N	2				2						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2014	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2014		1				1						
Downbound	Domestic	3	000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2014		10		10								
Downbound	Domestic	4	190	541	110.0	30.0	1	7.0	1.0	0.0	70	2014	N	1								1		
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2014	N	4								4		
Downbound	Domestic	4	000802	1705	195.0	35.0	2	10.0	1.5	0.5	140	2014	N	3								3		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2014	N	1								1		
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2014		10						10				
Downbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2014	N	1				1						
Downbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2014	N	1				1						
Downbound	Domestic	5	1619	4298	297.5	54.0	12	12.0	2.0	10.0	220	2014		2						2				
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2014	N	3				3						
Downbound	Domestic	4	000211	633	160.0	60.0	7	8.0	2.0	5.0	9999	2014	1	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	12	11.0	1.9	10.1	206	2014		1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	9	9.0	1.6	7.4	205	2014	N	4				4						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2014	N	2				2						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	160	2014	N	1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2014	N	2				2						
Downbound	Domestic	4	000764	1553	200.0	35.0	9	9.0	1.6	7.4	130	2014	N	2				2						
Downbound	Domestic	4	687	1605	195.0	35.0	2	9.5	1.5	0.5	146	2014	N	1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2014	N	10								10		
Downbound	Domestic	4	000764	1869	200.0	35.0	2	10.0	1.7	0.3	160	2014	N	1								1		
Downbound	Domestic	5	886	1489	195.0	35.0	2	9.0	1.3	0.7	164	2014	N	2										2
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	9999	2014	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2014		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	255	2014	N	1				1						
Downbound	Domestic	4	000823	1838	200.0	35.0	8	10.0	1.7	6.3	191	2014	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2014	N	4				4						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2014		1				1						
Downbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2014	N	1				1						
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2014	N	2				2						
Downbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2014	N	2				2						
Downbound	Domestic	5	1724	3300	297.6	54.1	11	10.0	2.0	9.0	180	2014		1						1				
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	1869	2014	N	1				1						
Downbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2014	N	1				1						
Downbound	Domestic	5	860	1800	195.0	35.0	2	10.7	2.0	0.0	150	2014		4										4
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2014	N	23								23		
Downbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.5	0.5	191	2014	N	2								2		
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2014	N	1								1		
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2014		4		4								
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	139	2014	N	1								1		
Downbound	Domestic	5	1660	3400	297.6	54.1	10	9.0	2.0	8.0	180	2014		6						6				
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2014		2				2						
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2014	N	4				4						
Downbound	Domestic	5	1152	1800	148.8	54.0	10	10.0	2.0	8.0	180	2014		3						3				
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2014		1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	213	2014	N	2				2						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	3				3						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2014	N	4				4						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2014	N	3				3						
Downbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2014	N	1				1						
Downbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	205	2014	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2014	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2014	N	4				4						
Downbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2014	N	1				1						
Downbound	Domestic	4	000764	1591	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	1				1						
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2014	N	1				1						
Downbound	Domestic	4	823	2291	200.0	35.0	8	12.0	1.6	6.4	240	2014	N	1				1						
Downbound	Domestic	3	349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2014		3		3								
Downbound	Domestic	4	705	1699	200.0	35.0	2	9.0	1.2	0.8	146	2014	N	1								1		
Downbound	Domestic	4	000202	590	120.0	45.0	1	6.6	1.0	0.0	70	2014	N	1								1		
Downbound	Domestic	4	705	1551	200.0	35.0	2	9.0	1.5	0.5	224	2014	N	1								1		
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2014	N	7				7						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	11.0	1.5	10.5	208	2014	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2014	N	5				5						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2014	N	2				2						
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2014	N	2				2						
Downbound	Domestic	5	1455	3200	290.0	54.0	10	10.0	2.0	8.0	170	2014		1						1				
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	170	2014	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2014	N	2				2						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2014	N	8				8						
Downbound	Domestic	4	000705	1659	200.0	35.0	9	9.0	1.4	7.6	205	2014	N	1				1						
Downbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2014		2		2								
Downbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2014	N	2								2		
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2014	N	3								3		
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2014	N	3								3		
Downbound	Domestic	4	000764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2014		1								1		
Downbound	Domestic	4	764	1615	200.0	35.0	2	9.0	1.6	0.4	225	2014	N	1								1		
Downbound	Domestic	4	000706	1534	200.0	35.0	2	9.0	1.8	0.2	205	2014	N	1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.5	0.5	205	2014	N	1								1		
Downbound	Domestic	5	687	1516	195.0	35.0	1	9.0	1.0	0.0	150	2014	N	1										1
Downbound	Domestic	5	001321	3200	280.4	54.0	9	9.0	2.0	7.0	180	2014		4						4				
Downbound	Domestic	4	000823	1638	200.0	35.0	9	9.0	1.6	7.4	175	2014	N	1				1						
Downbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2014	N	2				2						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	2				2						
Downbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	6				6						
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2014	N	2				2						
Downbound	Domestic	4	000764	1536	200.0	35.0	9	9.0	1.8	7.2	225	2014	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2014	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	9	10.0	1.4	7.6	210	2014	N	1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	2	10.0	1.5	0.5	206	2014	N	1								1		
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2014		2		2								
Downbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2014	N	3								3		
Downbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2014	N	1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	2	12.0	2.0	0.0	213	2014	N	2								2		
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2014		1				1						
Downbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2014		2				2						
Downbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2014	N	10				10						
Downbound	Domestic	5	1891	3100	281.7	54.0	11	9.0	2.0	9.0	180	2014		5						5				
Downbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2014		2				2						
Downbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2014	N	2				2						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2014	N	4				4						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2014	N	2				2						
Downbound	Domestic	4	000706	1569	200.0	35.0	9	9.0	1.6	7.4	205	2014	N	5				5						
Downbound	Domestic	4	000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2014	N	2				2						
Downbound	Domestic	4	000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2014		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2014	N	5				5						
Downbound	Domestic	4	764	1625	200.0	35.0	8	9.0	1.7	6.3	155	2014	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2014	N	2				2						
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2014	N	4				4						
Downbound	Domestic	4	802	1670	200.0	35.0	8	9.0	2.0	6.0	139	2014	N	1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2014	N	1				1						
Downbound	Domestic	4	764	1612	200.0	35.0	9	9.0	1.5	7.5	189	2014	N	1				1						
Downbound	Domestic	5	2264	4289	297.0	54.0	8	10.0	2.0	6.0	200	2014	N	1						1				
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2014	N	1				1						
Downbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2014		27		27								
Downbound	Domestic	4	764	2073	200.0	35.0	2	11.6	1.6	0.4	110	2014		1								1		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2014	N	2										2
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2014	N	3								3		
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2014		1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2014		2				2						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2014	N	3				3						
Downbound	Domestic	4	705	1650	200.0	35.0	10	12.0	1.5	8.5	195	2014	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2014	N	5				5						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2014	N	1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2014	N	2				2						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2014	N	1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2014		7				7						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2014	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	2				2						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2014	N	4				4						
Downbound	Domestic	4	000764	1618	200.0	35.0	11	9.0	3.0	8.0	9999	2014	N	1				1						
Downbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2014	N	3				3						
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2014	N	3								3		
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2014	N	5								5		
Downbound	Domestic	5	785	1489	195.1	35.1	2	9.0	2.0	0.0	184	2014	N	1										1
Downbound	Domestic	4	000823	2881	200.0	35.0	2	13.0	3.0	-1.0	9999	2014	N	2								2		
Downbound	Domestic	4	705	1546	200.0	35.0	2	9.0	1.5	0.5	223	2014	N	1								1		
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2014	N	5				5						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2014		20				20						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2014	N	2				2						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	6				6						
Downbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2014	N	4				4						
Downbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	9				9						
Downbound	Domestic	4	000764	1633	200.0	35.0	12	9.0	1.6	10.4	225	2014	N	4				4						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	223	2014	N	1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	9	9.0	1.6	7.4	210	2014	N	2				2						
Downbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	200	2014	N	1				1						
Downbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2014		1				1						
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2014	N	1				1						
Downbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2014		2		2								
Downbound	Domestic	5	835	1662	195.0	35.0	2	10.0	1.9	0.1	149	2014		2										2
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2014		31								31		
Downbound	Domestic	4	000764	1652	200.0	35.0	2	9.0	2.0	0.0	215	2014	N	1								1		
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2014	N	1								1		
Downbound	Domestic	4	764	1673	200.0	35.0	2	9.0	1.4	0.6	165	2014	N	1								1		
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2014	N	3				3						
Downbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2014	N	1				1						
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2014	N	2				2						
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2014	N	3				3						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	3.0	5.0	9999	2014	N	2				2						
Downbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2014	N	1				1						
Downbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2014	N	1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	2	13.0	2.0	0.0	165	2014	N	4								4		
Downbound	Domestic	4	764	1645	200.0	35.0	2	9.0	1.5	0.5	165	2014	N	1								1		
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2014		1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2014		1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2014		3				3						
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2014	N	5				5						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2014		2				2						
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2014	N	1				1						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2014	N	12				12						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2014	N	2				2						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2014	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2014	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2014	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2014	N	4				4						
Downbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2014	N	1				1						
Downbound	Domestic	4	000687	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2014	N	1				1						
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2014	N	3								3		
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2014		2										2
Downbound	Domestic	4	764	1518	200.0	35.0	2	9.0	1.7	0.3	170	2014	N	1								1		
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2014		1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2014	N	7				7						
Downbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2014		2				2						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2014		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1521	200.0	35.0	8	9.0	1.9	6.1	225	2014	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2014	N	18				18						
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2014	N	6				6						
Downbound	Domestic	4	764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2014	N	2				2						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	2				2						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2014	N	1				1						
Downbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2014	N	1				1						
Downbound	Domestic	5	001637	3390	297.5	54.0	10	11.0	2.0	8.0	160	2014		2						2				
Downbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2014	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2014		1				1						
Downbound	Domestic	4	764	1855	200.0	35.0	9	10.0	1.5	7.5	165	2014	N	1				1						
Downbound	Domestic	4	000764	2060	200.0	35.0	2	11.0	1.8	0.2	195	2014		1								1		
Downbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	165	2014	N	1										1
Downbound	Domestic	5	1724	3300	297.6	54.1	10	10.0	2.0	8.0	180	2014		5						5				
Downbound	Domestic	5	1597	3500	300.1	52.1	10	10.0	2.0	8.0	180	2014		1						1				
Downbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2014	N	5				5						
Downbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	6				6						
Downbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2014	N	1				1						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2014		3				3						
Downbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	255	2014	N	1				1						
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2014	N	2				2						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2014	N	1				1						
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2014		2		2								
Downbound	Domestic	4	705	1651	200.0	35.0	2	9.0	2.0	0.0	196	2014	N	1								1		
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2014		14		14								
Downbound	Domestic	4	1009	1522	195.0	35.0	2	9.0	1.6	0.4	200	2014	N	1								1		
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2014	N	15								15		
Downbound	Domestic	5	835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2014	N	2										2
Downbound	Domestic	4	687	1531	195.0	35.0	2	9.0	1.6	0.4	205	2014	N	1								1		
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2014	N	1								1		
Downbound	Domestic	4	705	1572	200.0	35.0	2	9.0	1.5	0.5	223	2014	N	1								1		
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2014		8						8				
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2014	N	4				4						
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	10				10						
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2014	N	1				1						
Downbound	Domestic	4	764	1616	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2014		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2014	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.6	0.4	170	2014		5								5		
Downbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2014	N	8								8		
Downbound	Domestic	3	000103	344	110.0	32.0	11	10.3	8.6	2.4	360	2014		4		4								
Downbound	Domestic	5	809	1487	195.0	35.0	2	9.0	1.8	0.2	213	2014	N	1										1
Downbound	Domestic	4	000764	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2014	N	4								4		
Downbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2014	N	3								3		
Downbound	Domestic	4	000764	1935	200.0	35.0	2	11.0	1.8	0.2	195	2014	N	4								4		
Downbound	Domestic	4	745	1915	195.0	35.0	2	11.0	1.7	0.3	224	2014	N	1								1		
Downbound	Domestic	5	1819	3100	281.7	54.0	11	9.0	2.0	9.0	180	2014		4						4				
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014		3				3						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2014		1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2014		2				2						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	4				4						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	147	2014	N	2				2						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2014	N	2				2						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2014	N	1				1						
Downbound	Domestic	5	001632	3526	300.0	54.0	9	10.0	2.3	6.7	189	2014	N	1						1				
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2014	N	7				7						
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2014	N	2				2						
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2014	N	1				1						
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2014		13		13								
Downbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.6	0.4	191	2014	N	1								1		
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2014	N	4										4
Downbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2014		3				3						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2014	N	4				4						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2014	N	5				5						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2014	N	3				3						
Downbound	Domestic	4	000764	1648	200.0	35.0	13	9.0	2.0	11.0	9999	2014	N	2				2						
Downbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2014	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	2				2						
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2014	N	3								3		
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2014	N	3								3		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2014		10								10		
Downbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2014	N	2								2		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	12.0	1.8	0.2	206	2014		2								2		
Downbound	Domestic	4	000706	1626	200.0	35.0	2	9.0	1.3	0.7	145	2014	N	1								1		
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2014		1								1		
Downbound	Domestic	5	1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2014		8						8				
Downbound	Domestic	5	914	2800	147.5	52.5	12	13.0	2.0	10.0	180	2014		2						2				
Downbound	Domestic	4	000764	1539	200.0	35.0	9	9.0	1.7	7.3	225	2014	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2014	N	3				3						
Downbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2014	N	2				2						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2014		1				1						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2014	N	2				2						
Downbound	Domestic	4	823	2188	200.0	35.0	10	12.0	1.6	8.4	225	2014	N	2				2						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2014		4				4						
Downbound	Domestic	4	764	1537	200.0	35.0	9	9.0	1.8	7.2	225	2014	N	2				2						
Downbound	Domestic	4	000705	1650	200.0	35.0	12	12.0	1.5	10.5	208	2014	N	6				6						
Downbound	Domestic	5	2264	4289	297.0	54.0	9	9.0	2.0	7.0	200	2014	N	1						1				
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2014		1		1								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	9999	2014	N	1								1		
Downbound	Domestic	4	000764	1648	200.0	35.0	2	13.0	2.0	0.0	208	2014	N	1								1		
Downbound	Domestic	4	764	2150	200.0	35.0	2	11.5	1.7	0.3	163	2014	N	1								1		
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2014	N	2								2		
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2014	N	12				12						
Downbound	Domestic	4	000764	1619	200.0	35.0	7	10.0	3.0	4.0	206	2014		1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2014	N	2				2						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2014	N	1				1						
Downbound	Domestic	3	000132	443	110.0	32.0	2	10.3	8.6	-6.6	456	2014		2		2								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	10.0	3.0	-1.0	216	2014	N	2								2		
Downbound	Domestic	5	795	1475	195.0	35.0	2	9.0	1.8	0.2	178	2014	N	1										1
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2014		3						3				
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2014	N	8				8						
Downbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2014		17						17				
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2014	N	12				12						
Downbound	Domestic	4	705	1774	200.0	35.0	9	10.0	1.6	7.4	170	2014	N	3				3						
Downbound	Domestic	4	000764	1611	200.0	35.0	11	9.0	3.0	8.0	9999	2014	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2014		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	13	11.0	1.5	11.5	186	2014	N	1				1						
Downbound	Domestic	5	2082	3300	297.5	54.0	8	10.8	2.0	6.0	197	2014	N	2						2				
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2014	N	5								5		
Downbound	Domestic	4	802	1481	195.0	35.0	2	11.0	1.8	0.2	250	2014		1								1		
Downbound	Domestic	4	000687	1462	195.0	35.0	2	9.0	1.9	0.1	205	2014	N	3								3		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2014		1										1
Downbound	Domestic	3	000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2014		4		4								
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2014	N	6				6						
Downbound	Domestic	4	000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2014		1				1						
Downbound	Domestic	4	764	1765	200.0	35.0	9	10.0	2.0	7.0	165	2014		1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2014		1				1						
Downbound	Domestic	5	001623	3200	297.7	54.1	9	9.0	2.0	7.0	180	2014		5						5				
Downbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2014	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2014	N	2				2						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2014	N	1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	210	2014	N	1				1						
Downbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2014		26		26								
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2014		17		17								
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	2.0	0.0	9999	2014	N	1								1		
Downbound	Domestic	3	000177	999999	85.8	32.0	8	10.0	8.0	0.0	480	2014		1		1								
Downbound	Domestic	5	1634	2900	264.0	54.0	10	10.0	2.0	8.0	180	2014		3						3				
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2014		1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2014	N	3				3						
Downbound	Domestic	4	764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2014	N	3				3						
Downbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2014	N	1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2014	N	6				6						
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2014	N	2				2						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	9999	2014	N	1				1						
Downbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2014	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2014	N	6				6						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2014		24		24								
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2014	N	1								1		
Downbound	Domestic	5	000735	1511	200.0	35.0	2	9.2	2.0	0.0	179	2014	N	2										2
Downbound	Domestic	5	000825	1422	195.0	35.0	2	9.0	1.1	0.9	194	2014	N	1										1
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2014	N	16				16						
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2014		2				2						
Downbound	Domestic	5	1659	2500	295.0	54.0	9	9.0	2.0	7.0	90	2014		1						1				
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2014	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2014		1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2014	N	7				7						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2014	N	8				8						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2014	N	4				4						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014	N	7				7						
Downbound	Domestic	5	001619	3517	297.0	54.0	9	10.0	0.6	8.4	280	2014		1						1				
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2014	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.6	0.4	165	2014	N	2								2		
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	165	2014	N	1								1		
Downbound	Domestic	4	687	1514	195.0	35.0	2	9.0	1.5	0.5	149	2014	N	1								1		
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2014	N	1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2014		1				1						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2014	N	4								4		
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2014		3				3						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2014	N	3				3						
Downbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2014	N	2				2						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2014	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2014	N	9				9						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	215	2014	N	1				1						
Downbound	Domestic	4	000764	1616	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2014	N	1				1						
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2014		6		6								
Downbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2014		603								603		
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2014	N	6								6		
Downbound	Domestic	4	000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2014	N	3								3		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2014	N	20								20		
Downbound	Domestic	4	727	1772	200.0	35.0	2	10.0	1.5	0.5	148	2014	N	1								1		
Downbound	Domestic	4	764	1865	200.0	35.0	2	12.0	1.5	0.5	208	2014	N	2								2		
Downbound	Domestic	5	000705	2300	200.0	35.0	1	8.0	1.0	0.0	120	2014	N	1										1
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2014	N	1				1						
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	1.5	8.5	180	2014		1						1				
Downbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2014		2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2014	N	3				3						
Downbound	Domestic	4	000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2014	N	1				1						
Downbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2014	N	5				5						
Downbound	Domestic	4	663	1892	200.0	35.0	9	10.0	1.4	7.6	140	2014	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2014	N	1				1						
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2014	N	6				6						
Downbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2014		1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	1				1						
Downbound	Domestic	4	764	1900	200.0	35.0	7	10.0	1.5	5.5	191	2014	N	1				1						
Downbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2014		50		50								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2014	N	12								12		
Downbound	Domestic	4	000745	2292	200.0	35.0	2	12.0	2.0	0.0	216	2014	N	3								3		
Downbound	Domestic	4	000764	1875	200.0	35.0	2	10.0	1.7	0.3	160	2014		2								2		
Downbound	Domestic	4	771	1541	200.0	35.0	2	9.0	1.6	0.4	212	2014	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2014		1								1		
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2014		1				1						
Downbound	Domestic	4	000764	2651	200.0	35.0	8	9.0	1.6	6.4	206	2014		2				2						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2014	N	8				8						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	10.0	1.5	9.5	215	2014	N	1				1						
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2014		33		33								
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2014	N	8								8		
Downbound	Domestic	5	847	1450	195.0	35.0	2	9.0	1.1	0.9	170	2014	N	3										3
Downbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2014	N	1								1		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2014	N	1								1		
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2014		2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2014	N	17				17						
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2014	N	4				4						
Downbound	Domestic	5	001918	3100	297.5	54.0	10	10.3	2.0	8.0	193	2014		1						1				
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2014	N	3				3						
Downbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	4				4						
Downbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2014	N	1				1						
Downbound	Domestic	4	764	1527	200.0	35.0	8	9.0	1.8	6.2	205	2014	N	1				1						
Downbound	Domestic	4	764	1625	200.0	35.0	8	9.0	1.7	6.3	220	2014	N	1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2014		2		2								
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2014	N	17										17
Downbound	Domestic	4	823	2750	200.0	35.0	2	14.0	1.5	0.5	215	2014	N	2								2		
Downbound	Domestic	5	001754	3390	297.5	54.0	2	11.0	2.0	0.0	180	2014		2										2
Downbound	Domestic	4	764	1695	200.0	35.0	2	9.0	1.2	0.8	155	2014	N	2								2		
Downbound	Domestic	4	764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2014	N	1								1		
Downbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	191	2014	N	1								1		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	10.0	1.8	0.2	170	2014		1								1		
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2014		2				2						
Downbound	Domestic	5	1876	3400	297.5	54.0	9	10.0	2.0	7.0	170	2014		2						2				
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2014		2				2						
Downbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2014	N	2				2						
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2014	N	4				4						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2014	N	1				1						
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2014	N	1				1						
Downbound	Domestic	4	999999	1541	200.0	35.0	8	9.0	1.6	6.4	143	2014	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	11.0	2.0	7.0	165	2014	N	1				1						
Downbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2014	N	1				1						
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2014	N	1								1		
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2014	N	4								4		
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2014	N	4								4		
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2014	N	1								1		
Downbound	Domestic	4	764	1518	200.0	35.0	2	9.0	1.8	0.2	205	2014	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	2200	200.0	35.0	3	10.0	3.0	0.0	9999	2014	N	1								1		
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2014	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2014	N	5				5						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	10				10						
Downbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2014	N	2				2						
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2014	N	2				2						
Downbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2014	N	2				2						
Downbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2014	N	1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	3				3						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2014	N	1				1						
Downbound	Domestic	4	856	2312	200.0	35.0	8	12.0	1.5	6.5	217	2014	N	1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	170	2014	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2014	N	1				1						
Downbound	Domestic	3	000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2014		1		1								
Downbound	Domestic	4	601	1400	195.0	35.0	2	10.0	2.0	0.0	110	2014		114								114		
Downbound	Domestic	4	764	1546	200.0	35.0	2	9.0	1.5	0.5	170	2014	N	1								1		
Downbound	Domestic	4	573	1250	195.0	35.0	2	10.0	2.0	0.0	110	2014		16								16		
Downbound	Domestic	4	764	2075	200.0	35.0	2	9.0	2.0	0.0	130	2014	N	2								2		
Downbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2014	N	1								1		
Downbound	Domestic	4	770	1889	200.0	35.0	2	10.0	1.5	0.5	149	2014	N	1								1		
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2014		3						3				
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2014	N	4				4						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2014	N	5				5						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	130	2014	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	9	12.0	2.0	7.0	180	2014		2						2				
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2014	N	2				2						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2014	N	3				3						
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2014	N	1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2014	N	1				1						
Downbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2014	N	2								2		
Downbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2014	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2014	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	13	10.0	1.9	11.1	206	2014		1				1						
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2014		2		2								
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2014	N	11								11		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2014	N	1								1		
Downbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2014	N	2								2		
Downbound	Domestic	4	000764	2353	200.0	35.0	2	12.9	1.6	0.4	205	2014	N	1								1		
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2014		1				1						
Downbound	Domestic	5	1876	3300	297.5	54.0	10	9.6	2.0	8.0	220	2014		2						2				
Downbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2014	N	3				3						
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2014	N	4				4						
Downbound	Domestic	4	705	1617	200.0	35.0	8	9.0	1.6	6.4	185	2014	N	1				1						
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2014	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2014	N	4				4						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.4	6.6	165	2014	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2014	N	4				4						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2014	N	1				1						
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2014	N	3				3						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2014	N	1				1						
Downbound	Domestic	5	1454	3200	295.0	54.0	8	10.0	2.0	6.0	170	2014		0						0				
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2014	N	3				3						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2014	N	28								28		
Downbound	Domestic	5	820	1422	195.0	35.0	2	9.0	1.1	0.9	194	2014	N	2										2
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	1.8	0.2	165	2014	N	1										1
Downbound	Domestic	5	774	1400	195.0	35.0	2	9.0	1.6	0.4	180	2014	N	1										1
Downbound	Domestic	4	000764	1869	200.0	35.0	3	10.0	3.0	0.0	191	2014	N	1								1		
Downbound	Domestic	4	764	1855	200.0	35.0	8	10.0	1.5	6.5	165	2014		1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2014	N	5				5						
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2014	N	17								17		
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	7				7						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2014	N	14				14						
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	4				4						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2014	N	1				1						
Downbound	Domestic	4	000764	1765	200.0	35.0	12	11.0	2.0	10.0	165	2014	N	1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2014		2				2						
Downbound	Domestic	4	764	1854	200.0	35.0	9	10.0	1.6	7.4	224	2014	N	2				2						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2014	N	6				6						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2014	N	4				4						
Downbound	Domestic	4	745	2345	195.0	35.0	9	13.0	1.6	7.4	209	2014	N	1				1						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2014	N	1				1						
Downbound	Domestic	4	799	1887	200.0	35.0	9	10.0	1.4	7.6	149	2014	N	1				1						
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2014	N	17								17		
Downbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2014		2								2		
Downbound	Domestic	4	764	1635	200.0	35.0	2	9.0	1.6	0.4	225	2014	N	1								1		
Downbound	Domestic	5	000735	1420	200.0	35.0	2	10.0	1.6	0.4	182	2014	N	1										1
Downbound	Domestic	4	000764	1506	200.0	35.0	2	9.0	1.9	0.1	206	2014		2								2		
Downbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	214	2014	N	1								1		
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2014		2				2						
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2014		6						6				
Downbound	Domestic	5	1038	2000	155.1	54.0	10	10.0	2.0	8.0	180	2014		1						1				
Downbound	Domestic	5	1619	3390	297.5	54.0	6	11.0	2.0	4.0	160	2014		0						0				
Downbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2014	N	6				6						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2014	N	3				3						
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2014	N	3				3						
Downbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	3				3						
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2014	N	12				12						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2014	N	2				2						
Downbound	Domestic	4	687	1577	195.0	35.0	8	9.0	1.8	6.2	169	2014	N	1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2014	N	2				2						
Downbound	Domestic	4	764	1548	200.0	35.0	9	9.0	1.7	7.3	212	2014	N	1				1						
Downbound	Domestic	5	2033	4196	297.0	54.0	8	9.0	2.0	6.0	198	2014	N	2						2				
Downbound	Domestic	4	764	1517	200.0	35.0	2	9.0	1.9	0.1	225	2014	N	3								3		
Downbound	Domestic	4	000745	1705	195.0	35.0	2	10.0	1.6	0.4	139	2014	N	1								1		
Downbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2014	N	2								2		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2014	N	3								3		
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	208	2014	N	2								2		
Downbound	Domestic	4	764	1535	200.0	35.0	2	9.0	1.8	0.2	225	2014	N	1								1		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	11.0	1.8	0.2	170	2014		1								1		
Downbound	Domestic	5	001622	2500	270.0	53.0	8	9.0	2.0	6.0	220	2014		1						1				
Downbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	216	2014	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2014	N	8				8						
Downbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.5	7.5	160	2014	N	2				2						
Downbound	Domestic	4	705	1645	200.0	35.0	9	9.0	1.5	7.5	200	2014	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	3				3						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2014	N	9				9						
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2014	N	9				9						
Downbound	Domestic	4	764	1990	200.0	35.0	7	11.0	4.0	3.0	170	2014	N	1				1						
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2014		1		1								
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2014		6		6								
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2014	N	4								4		
Downbound	Domestic	4	000764	2190	200.0	35.0	2	12.0	2.0	0.0	160	2014	N	1								1		
Downbound	Domestic	4	000823	2594	200.0	35.0	2	12.0	1.8	0.2	250	2014	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	230	2014	N	1								1		
Downbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	10				10						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2014	N	20				20						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. **OK**

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
													Total Trips =	84400	0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic		4 705	2300	200.0	35.0	7	9.0	1.4	5.6	160	2014	N	2				2						
Downbound	Domestic		4 000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	2				2						
Downbound	Domestic		4 764	1648	200.0	35.0	13	12.0	1.5	11.5	186	2014	N	1				1						
Downbound	Domestic		4 000764	1539	200.0	35.0	2	9.0	1.7	0.3	225	2014	N	4								4		
Downbound	Domestic		4 687	1522	195.0	35.0	2	9.0	1.6	0.4	165	2014	N	1								1		
Downbound	Domestic		3 265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2014		1		1								
Downbound	Domestic		5 2476	2500	310.0	50.0	9	9.0	2.5	6.5	230	2014		2						2				
Downbound	Domestic		5 2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2014		2						2				
Downbound	Domestic		4 000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2014		2				2						
Downbound	Domestic		4 687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2014	N	1				1						
Downbound	Domestic		4 000706	1534	200.0	35.0	9	9.0	1.8	7.2	205	2014	N	1				1						
Downbound	Domestic		5 2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2014		1						1				
Downbound	Domestic		4 000764	1765	200.0	35.0	12	13.0	2.0	10.0	165	2014	N	1				1						
Downbound	Domestic		3 000318	609	147.0	38.0	8	9.0	8.0	0.0	470	2014		1		1								
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2014	N	37								37		
Downbound	Domestic		4 764	1603	200.0	35.0	2	9.0	1.5	0.5	170	2014	N	1								1		
Downbound	Domestic		4 764	1608	200.0	35.0	2	9.0	1.5	0.5	225	2014	N	1								1		
Downbound	Domestic		4 000764	1651	200.0	35.0	2	10.0	1.8	0.2	206	2014		1								1		
Downbound	Domestic		4 000764	1619	200.0	35.0	8	9.0	1.7	6.3	206	2014		1				1						
Downbound	Domestic		4 764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2014	N	14				14						
Downbound	Domestic		4 802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2014	N	1				1						
Downbound	Domestic		4 000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2014	N	1				1						
Downbound	Domestic		4 764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2014	N	1				1						
Downbound	Domestic		4 000764	1653	200.0	35.0	11	9.0	3.0	8.0	9999	2014	N	1				1						
Downbound	Domestic		5 001619	4857	297.5	54.0	9	10.0	2.0	7.0	280	2014		1						1				
Downbound	Domestic		4 000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2014	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	13	12.0	1.5	11.5	215	2014	N	1				1						
Downbound	Domestic		4 764	1990	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	1				1						
Downbound	Domestic		4 764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2014	N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	1.7	0.3	240	2014		1								1		
Downbound	Domestic		4 000745	2235	195.0	35.0	2	12.0	2.0	0.0	212	2014	N	1								1		
Downbound	Domestic		4 000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2014	N	4								4		
Downbound	Domestic		4 764	1900	200.0	35.0	2	10.0	1.5	0.5	210	2014	N	1								1		
Downbound	Domestic		5 1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2014		2						2				
Downbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2014	N	6				6						
Downbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2014		1				1						
Downbound	Domestic		4 823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2014	N	1				1						
Downbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2014	N	4				4						
Downbound	Domestic		4 823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2014	N	1				1						
Downbound	Domestic		4 764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	1				1						
Downbound	Domestic		4 705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2014	N	4				4						
Downbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014	N	6				6						
Downbound	Domestic		4 764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2014	N	1				1						
Downbound	Domestic		4 764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2014	N	2				2						
Downbound	Domestic		5 001633	4744	300.0	54.0	9	11.6	2.3	6.7	189	2014	N	1						1				
Downbound	Domestic		4 000687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	3.0	4.0	135	2014	N	1				1						
Downbound	Domestic		4 764	1528	200.0	35.0	9	9.0	1.7	7.3	163	2014	N	1				1						
Downbound	Domestic		3 000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2014		3		3								
Downbound	Domestic		3 34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2014		201		201								
Downbound	Domestic		4 823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2014	N	5								5		
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2014		5				5						
Downbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014		3				3						
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2014		1				1						
Downbound	Domestic		4 764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2014	N	6				6						
Downbound	Domestic		4 000823	2300	200.0	35.0	10	12.0	1.5	8.5	165	2014		1				1						
Downbound	Domestic		5 001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2014		6						6				
Downbound	Domestic		4 764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2014	N	5				5						
Downbound	Domestic		4 000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2014	N	5				5						
Downbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.5	7.5	165	2014	N	1				1						
Downbound	Domestic		4 705	9100	200.0	35.0	9	10.0	1.4	7.6	208	2014	N	1				1						
Downbound	Domestic		5 2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2014		1						1				
Downbound	Domestic		4 000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2014	N	18								18		
Downbound	Domestic		3 163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2014		22		22								
Downbound	Domestic		5 001754	3665	297.5	54.0	2	11.0	2.0	0.0	180	2014		1										1
Downbound	Domestic		4 000764	2468	200.0	35.0	2	12.0	1.5	0.5	208	2014	N	1								1		
Downbound	Domestic		4 771	1660	200.0	35.0	2	9.0	1.4	0.6	218	2014	N	1								1		
Downbound	Domestic		4 000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2014		3				3						
Downbound	Domestic		4 764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2014		3				3						
Downbound	Domestic		5 001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2014		3						3				
Downbound	Domestic		4 764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2014	N	4				4						
Downbound	Domestic		5 1660	3200	297.6	54.1	7	9.0	2.0	5.0	180	2014		0						0				
Downbound	Domestic		4 705	1672	200.0	35.0	9	9.0	1.4	7.6	120	2014	N	6				6						
Downbound	Domestic		4 799	1887	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	1				1						
Downbound	Domestic		4 000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2014	N	8				8						
Downbound	Domestic		4 687	1577	195.0	35.0	8	9.0	1.8	6.2	170	2014	N	1				1						
Downbound	Domestic		4 764	1647	200.0	35.0	7	9.0	1.2	5.8	205	2014	N	1				1						
Downbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	180	2014	N	3				3						
Downbound	Domestic		4 823	1643	200.0	35.0	12	12.0	1.5	10.5	9999	2014	N	1				1						
Downbound	Domestic		4 000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2014	N	2				2						
Downbound	Domestic		5 2082	3300	297.5	54.0	7	10.8	2.0	5.0	197	2014	N	1						1				
Downbound	Domestic		4 000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2014	N	2								2		
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	228	2014	N	1								1		
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	135	2014	N	1								1		
Downbound	Domestic		4 000764	1651	200.0	35.0	2	11.0	1.8	0.2	206	2014		1								1		
Downbound	Domestic		5 1619	4528	300.0	54.0	9	9.3	2.0	7.0	190	2014	N	1						1				
Downbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2014	N	3				3						
Downbound	Domestic		4 000764	1651	200.0	35.0	11	11.0	1.8	9.2	206	2014		1				1						
Downbound	Domestic		4 933	1674	200.0	35.0	9	9.0	2.0	7.0	192	2014	N	1				1						
Downbound	Domestic		4 764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2014	N	1								1		
Downbound	Domestic		3 000255	375	110.0	34.0	8	8.0	7.5	0.5	380	2014		1		1								
Downbound	Domestic		4 705	1660	200.0	35.0	2	9.0	1.3	0.7	213	2014	N	1								1		
Downbound	Domestic		5 890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2014	N	1										1
Downbound	Domestic		4 705	1893	200.0	35.0	2	10.0	1.4	0.6	205	2014	N	2								2		
Downbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2014		5				5						
Downbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2014		1				1						
Downbound	Domestic		4 000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2014	N	3				3						
Downbound	Domestic		4 000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2014	N	2				2						
Downbound	Domestic		4 783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2014	N	1				1						
Downbound	Domestic		4 862	1736	195.0	35.0	8	10.0	1.5	6.5	192	2014	N	1				1						
Downbound	Domestic		4 764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2014	N	2								2		
Downbound	Domestic		5 788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2014	N	2										2
Downbound	Domestic		4 000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2014	N	1								1		
Downbound	Domestic		4 764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2014	N	7				7						
Downbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.7	8.3	195	2014	N	1				1						
Downbound	Domestic		4 000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2014	N	4				4						
Downbound	Domestic		4 000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2014	N	5				5						
Downbound	Domestic		4 687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	1				1						
Downbound	Domestic		4 705	1556	200.0	35.0	9	9.0	1.5	7.5	216	2014	N	1				1						
Downbound	Domestic		4 764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2014	N	1				1						
Downbound	Domestic		4 705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2014	N	1				1						
Downbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2014	N	1				1						
Downbound	Domestic		5 773	1811	195.0	35.0	2	10.5	2.0	0.0	170	2014		1										1
Downbound	Domestic		5 1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2014		1										1
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	220	2014	N	18								18		
Downbound	Domestic		4 764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2014	N	2								2		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2014	N	1								1		
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2014	N	2								2		
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2014	N	4								4		
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2014	N	1								1		
Downbound	Domestic	5	2380	2500	300.0	50.0	10	9.0	2.5	7.5	220	2014		2						2				
Downbound	Domestic	5	1697	1800	296.7	54.0	9	9.0	1.6	7.4	90	2014		1						1				
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2014		1				1						
Downbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2014	N	1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	3				3						
Downbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2014	N	3				3						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2014	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2014	N	6				6						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2014	N	4				4						
Downbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2014	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2014	N	1				1						
Downbound	Domestic	4	705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2014	N	1				1						
Downbound	Domestic	5	809	1487	195.0	35.0	2	9.0	1.8	0.2	213	2014		1										1
Downbound	Domestic	4	000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2014	N	4								4		
Downbound	Domestic	4	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2014	N	3								3		
Downbound	Domestic	4	000764	2400	200.0	35.0	3	10.0	2.5	0.5	9999	2014	N	1								1		
Downbound	Domestic	4	000764	1875	200.0	35.0	2	10.0	1.7	0.3	160	2014	N	1								1		
Downbound	Domestic	4	706	1563	200.0	35.0	2	9.0	1.7	0.3	205	2014	N	1								1		
Downbound	Domestic	4	000764	2131	200.0	35.0	2	13.0	1.9	0.1	206	2014		1								1		
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2014	N	2				2						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2014	N	7				7						
Downbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2014		1				1						
Downbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2014	N	2				2						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2014	N	9				9						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2014	N	17				17						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2014	N	2				2						
Downbound	Domestic	4	000764	1590	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	1				1						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2014	N	2				2						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2014	N	2				2						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2014	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2014	N	2				2						
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2014	N	1								1		
Downbound	Domestic	4	000745	2100	195.0	35.0	2	12.0	2.0	0.0	9999	2014	N	9								9		
Downbound	Domestic	4	000745	2235	200.0	35.0	2	15.0	3.0	-1.0	9999	2014	N	2								2		
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2014	N	9				9						
Downbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2014		1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2014	N	2				2						
Downbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2014	N	3				3						
Downbound	Domestic	4	705	1645	200.0	35.0	8	9.0	1.5	6.5	200	2014	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014	N	6				6						
Downbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.7	7.3	206	2014		1				1						
Downbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2014	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2014	N	1				1						
Downbound	Domestic	4	723	1635	200.0	35.0	9	9.0	1.5	7.5	205	2014	N	1				1						
Downbound	Domestic	4	000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2014	N	6								6		
Downbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	130	2014	N	1								1		
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2014	N	2								2		
Downbound	Domestic	4	687	1501	195.0	35.0	2	10.0	1.5	0.5	186	2014	N	1								1		
Downbound	Domestic	4	599	1871	200.0	35.0	2	10.0	1.5	0.5	160	2014	N	1								1		
Downbound	Domestic	4	687	1605	195.0	35.0	1	9.5	0.5	0.5	146	2014	N	1								1		
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2014		3				3						
Downbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2014		1				1						
Downbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2014	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2014	N	2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2014	N	5				5						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	3				3						
Downbound	Domestic	4	823	2295	200.0	35.0	8	12.0	1.4	6.6	227	2014		1				1						
Downbound	Domestic	4	000705	1616	200.0	35.0	8	9.0	1.6	6.4	205	2014	N	1				1						
Downbound	Domestic	4	799	1893	200.0	35.0	8	10.0	1.4	6.6	149	2014	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2014	N	1				1						
Downbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2014		1		1								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2014	N	23								23		
Downbound	Domestic	4	705	1660	200.0	35.0	2	9.0	1.4	0.6	218	2014	N	2								2		
Downbound	Domestic	4	000687	1535	200.0	35.0	2	9.0	1.5	0.5	217	2014	N	1								1		
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2014	N	1								1		
Downbound	Domestic	4	000764	1728	200.0	35.0	2	9.0	1.6	0.4	206	2014		1								1		
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2014		2				2						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2014		3				3						
Downbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2014	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2014	N	8				8						
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2014	N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2014	N	1				1						
Downbound	Domestic	4	000764	1857	200.0	35.0	9	10.0	1.5	7.5	191	2014	N	1				1						
Downbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2014	N	3				3						
Downbound	Domestic	4	000764	1592	200.0	35.0	9	9.0	2.0	7.0	9999	2014	N	1				1						
Downbound	Domestic	4	000764	1521	200.0	35.0	7	9.0	1.8	5.2	225	2014	N	1				1						
Downbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2014	N	2				2						
Downbound	Domestic	4	764	1969	200.0	35.0	2	10.5	1.7	0.3	180	2014	N	1								1		
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2014	N	4				4						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014		4				4						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2014		2				2						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2014	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2014		2				2						
Downbound	Domestic	5	914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2014		4						4				
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2014		3				3						
Downbound	Domestic	4	000764	1635	200.0	35.0	8	9.0	1.4	6.6	215	2014	N	1				1						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2014	N	4				4						
Downbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2014	N	1				1						
Downbound	Domestic	5	766	1500	200.0	35.0	9	9.0	2.0	7.0	170	2014	N	2						2				
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	1				1						
Downbound	Domestic	4	000764	1765	200.0	35.0	11	11.0	2.0	9.0	165	2014	N	1				1						
Downbound	Domestic	4	000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2014	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2014	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2014	N	3				3						
Downbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2014		348		348								
Downbound	Domestic	4	687	1500	195.0	35.0	2	9.0	1.6	0.4	210	2014	N	1								1		
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2014	N	3								3		
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2014	N	1								1		
Downbound	Domestic	4	000764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2014	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	165	2014	N	1								1		
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2014	N	1								1		
Downbound	Domestic	4	000764	2500	200.0	35.0	2	9.0	1.6	0.4	9999	2014		1								1		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2014	N	12								12		
Downbound	Domestic	5	001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2014		6						6				
Downbound	Domestic	4	1072	1870	200.0	35.0	9	10.0	1.5	7.5	169	2014		1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2014	N	4				4						
Downbound	Domestic	5	001623	32000	297.7	54.1	9	9.0	2.0	7.0	180	2014		4						4				
Downbound	Domestic	5	1619	3200	297.5	54.0	10	9.0	2.0	8.0	180	2014		4						4				
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2014	N	1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2014		2						2				
Downbound	Domestic	5	1810	3200	295.0	54.0	8	8.5	2.0	6.0	175	2014	N	1						1				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2014		3		3								
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2014	N	3							3			
Downbound	Domestic	4	000719	1553	200.0	35.0	2	9.0	2.0	0.0	130	2014	N	2							2			
Downbound	Domestic	4	764	1990	200.0	35.0	2	9.0	1.5	0.5	170	2014	N	1							1			
Downbound	Domestic	5	000735	1521	200.0	35.0	2	12.5	2.0	0.0	201	2014	N	2										2
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2014		3			3							
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2014		1			1							
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.6	7.4	170	2014	N	1			1							
Downbound	Domestic	4	764	1517	200.0	35.0	9	9.0	1.9	7.1	225	2014	N	1			1							
Downbound	Domestic	5	750	1490	195.0	35.0	9	9.0	2.0	7.0	170	2014	N	4					4					
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2014	N	1			1							
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2014	N	4			4							
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2014	N	1			1							
Downbound	Domestic	3	429	999999	140.0	38.0	9	9.0	8.6	0.4	423	2014	N	1		1								
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2014	N	5							5			
Downbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2014	N	1							1			
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2014		2			2							
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2014		1			1							
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	206	2014		1			1							
Downbound	Domestic	4	630	1450	195.0	35.0	8	8.0	1.5	6.5	136	2014	N	2			2							
Downbound	Domestic	4	727	1772	200.0	35.0	9	10.0	1.5	7.5	148	2014	N	5			5							
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2014	N	7			7							
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2014	N	5			5							
Downbound	Domestic	4	000764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2014	N	1			1							
Downbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2014	N	1			1							
Downbound	Domestic	4	000303	1200	173.8	48.0	13	12.8	2.0	11.0	9999	2014	N	1			1							
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2014		6		6								
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2014		3										3
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2014		24							24			
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2014	N	2										2
Downbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2014	N	1			1							
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2014	N	4			4							
Downbound	Domestic	5	1861	5250	356.0	54.0	11	13.0	2.0	9.0	220	2014		1					1					
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2014		1			1							
Downbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2014	N	5			5							
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	8			8							
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2014	N	6			6							
Downbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2014		1			1							
Downbound	Domestic	4	764	1530	200.0	35.0	9	9.0	1.7	7.3	209	2014	N	1			1							
Downbound	Domestic	3	000202	999999	83.5	32.0	7	11.5	11.5	-4.5	412	2014		1		1								
Downbound	Domestic	5	000835	1404	195.0	35.0	2	9.0	2.0	0.0	178	2014	N	1										1
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2014		7			7							
Downbound	Domestic	4	000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2014	N	1			1							
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2014		1			1							
Downbound	Domestic	5	1816	5450	356.0	54.0	11	13.0	2.0	9.0	220	2014		1					1					
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	210	2014	N	1			1							
Downbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2014	N	1			1							
Downbound	Domestic	4	687	1629	195.0	35.0	9	9.0	1.4	7.6	160	2014	N	1			1							
Downbound	Domestic	4	902	1750	200.0	35.0	9	10.0	1.5	7.5	194	2014	N	3			3							
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2014	N	2			2							
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2014	N	2			2							
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2014	N	1			1							
Downbound	Domestic	4	933	1658	200.0	35.0	9	9.0	1.6	7.4	177	2014	N	3			3							
Downbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2014	N	1			1							
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2014	N	1			1							
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2014	N	2							2			
Downbound	Domestic	4	705	2300	200.0	35.0	2	9.0	1.4	0.6	160	2014	N	3							3			
Downbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	215	2014	N	1							1			
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2014		4			4							
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2014		2			2							
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2014		3			3							
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2014	N	2			2							
Downbound	Domestic	4	000764	1865	200.0	35.0	9	10.0	1.5	7.5	139	2014	N	2			2							
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2014	N	3			3							
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2014	N	2			2							
Downbound	Domestic	4	802	1898	195.0	35.0	8	11.0	1.8	6.2	250	2014		1			1							
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2014	N	2			2							
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2014	N	3			3							
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2014	N	1			1							
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2014	N	1			1							
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2014	N	1			1							
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2014	N	1			1							
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2014		29		29								
Downbound	Domestic	4	000764	2151	200.0	35.0	2	13.0	1.8	0.2	190	2014	N	2							2			
Downbound	Domestic	4	745	1495	195.0	35.0	2	9.0	1.7	0.3	225	2014	N	2							2			
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2014	N	1							1			
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2014		9			9							
Downbound	Domestic	5	1106	1800	175.0	54.0	9	10.0	2.0	7.0	170	2014		1					1					
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2014	N	8			8							
Downbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2014	N	3			3							
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2014	N	5			5							
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2014	N	4			4							
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2014	N	3			3							
Downbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2014	N	3			3							
Downbound	Domestic	4	764	2000	200.0	35.0	11	12.0	1.5	9.5	9999	2014	N	1			1							
Downbound	Domestic	4	764	1662	200.0	35.0	8	9.0	1.5	6.5	210	2014	N	1			1							
Downbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2014	N	1			1							
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2014	N	1			1							
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2014	N	1			1							
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2014	N	1			1							
Downbound	Domestic	5	1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2014		1					1					
Downbound	Domestic	4	000764	2073	200.0	35.0	2	13.0	1.6	0.4	200	2014		1							1			
Downbound	Domestic	4	688	1680	200.0	35.0	2	9.0	1.5	0.5	210	2014	N	1							1			
Downbound	Domestic	4	823	1624	200.0	35.0	2	9.0	1.6	0.4	200	2014	N	1							1			
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2014		2					2					
Downbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2014		2			2							
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2014		4					4					
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2014	N	3			3							
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2014	N	4			4							
Downbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2014	N	2			2							
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2014	N	1			1							
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2014		3			3							
Downbound	Domestic	5	716	1450	195.0	35.0	9	9.0	1.5	7.5	168	2014	N	2					2					
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2014		3					3					
Downbound	Domestic	4	000823	2880	200.0	35.0	2	12.0	3.0	-1.0	9999	2014	N	2							2			
Downbound	Domestic	4	705	1663	200.0	35.0	2	9.0	1.5	0.5	223	2014	N	1							1			
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2014	N	1							1			
Downbound	Domestic	4	000706	1534	200.0	35.0	2	9.0	1.8	0.2	145	2014	N	1							1			
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	148	2014	N	1							1			
Downbound	Domestic	5	1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2014		5					5					
Downbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2014		5			5							
Downbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2014	N	1			1							
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2014	N	1							1			
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2014	N	16			16							
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2014	N	1			1							
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	147	2014	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	5	1455	3200	290.0	54.0	9	10.0	2.0	7.0	170	2014		1						1				
Downbound	Domestic	4	000764	1858	200.0	35.0	9	10.0	1.6	7.4	191	2014	N	1				1						
Downbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	210	2014	N	1				1						
Downbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2014	N	1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2014	N	2				2						
Downbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2014		211		211								
Downbound	Domestic	3	157	999999	90.8	32.0	8	10.1	7.6	0.4	600	2014		1		1								
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	195	2014	N	3								3		
Downbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2014	N	1								1		
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2014		1				1						
Downbound	Domestic	4	933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2014	N	5				5						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2014	N	17				17						
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2014		2				2						
Downbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2014		1				1						
Downbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2014	N	9				9						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2014	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2014	N	3				3						
Downbound	Domestic	4	000823	2475	200.0	35.0	8	12.0	3.0	5.0	225	2014	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2014	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	10	12.0	1.6	8.4	210	2014		1				1						
Downbound	Domestic	5	000705	1650	200.0	35.0	2	9.6	2.0	0.0	189	2014	N	1										1
Downbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2014		2								2		
Downbound	Domestic	5	001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2014		3						3				
Downbound	Domestic	5	001321	3200	280.4	54.0	10	9.0	2.0	8.0	180	2014		1						1				
Downbound	Domestic	4	705	1501	200.0	35.0	12	12.0	1.5	10.5	186	2014	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2014	N	2				2						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2014	N	6				6						
Downbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2014		1				1						
Downbound	Domestic	4	573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2014		28				28						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2014	N	2				2						
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2014	N	23								23		
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	235	2014	N	2								2		
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	214	2014	N	1								1		
Downbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2014		1										1
Downbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2014	N	1								1		
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2014		1				1						
Downbound	Domestic	4	000764	2700	200.0	35.0	7	10.0	3.0	4.0	9999	2014		1				1						
Downbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2014		3				3						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2014	N	7				7						
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2014	N	1				1						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2014	N	4				4						
Downbound	Domestic	5	1454	3200	295.0	54.0	10	10.0	2.0	8.0	170	2014		1						1				
Downbound	Domestic	4	000687	1500	195.0	35.0	8	10.0	3.0	5.0	9999	2014	N	2				2						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2014	N	2				2						
Downbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2014		25		25								
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2014	N	2								2		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	10.0	1.8	0.2	206	2014		1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	12.0	1.7	1.3	160	2014	N	3								3		
Downbound	Domestic	4	764	1645	200.0	35.0	2	9.0	1.9	0.1	220	2014	N	1								1		
Downbound	Domestic	5	000735	1420	200.0	35.0	2	10.5	2.0	0.0	182	2014	N	1										1
Downbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	160	2014	N	1										1
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	147	2014	N	1								1		
Downbound	Domestic	4	705	1877	200.0	35.0	8	10.0	1.4	6.6	146	2014	N	1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2014	N	5				5						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2014	N	4				4						
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2014	N	4				4						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2014	N	2				2						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2014	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2014	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	148	2014	N	2				2						
Downbound	Domestic	4	705	1885	200.0	35.0	8	9.0	1.4	6.6	208	2014	N	1				1						
Downbound	Domestic	4	783	1937	195.0	35.0	8	11.0	1.8	6.2	210	2014	N	1				1						
Downbound	Domestic	4	000764	1858	200.0	35.0	8	10.0	1.6	6.4	191	2014	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2014		2								2		
Downbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2014	N	1								1		
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2014	N	2										2
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2014		2								2		
Downbound	Domestic	3	194	999999	101.0	30.0	7	9.4	8.0	-1.0	360	2014		1		1								
Downbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2014	N	3				3						
Downbound	Domestic	5	1721	3300	297.6	54.1	10	10.0	2.0	8.0	180	2014		3						3				
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2014	N	1				1						
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2014		1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2014		1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2014	N	1				1						
Downbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2014	N	1				1						
Downbound	Domestic	5	1637	3300	297.5	54.0	8	9.0	2.0	6.0	170	2014	N	2						2				
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	255	2014	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.5	0.5	180	2014	N	2								2		
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2014		5				5						
Downbound	Domestic	4	000764	1651	200.0	35.0	11	9.0	1.8	9.2	206	2014		1				1						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2014	N	3				3						
Downbound	Domestic	4	000764	1640	200.0	35.0	8	9.0	1.5	6.5	160	2014	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2014	N	14				14						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2014	N	5				5						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2014	N	2				2						
Downbound	Domestic	4	000764	1581	200.0	35.0	12	9.0	3.0	9.0	9999	2014	N	1				1						
Downbound	Domestic	4	470	1200	160.0	35.0	2	8.5	1.5	0.5	100	2014		35								35		
Downbound	Domestic	4	764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2014	N	2								2		
Downbound	Domestic	4	705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2014	N	1								1		
Downbound	Domestic	4	705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2014	N	1								1		
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2014	N	12				12						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2014		1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2014		3				3						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2014	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	120	2014		1				1						
Downbound	Domestic	5	001619	3612	300.0	54.0	9	9.3	2.0	7.0	190	2014	N	1						1				
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2014	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2014		2				2						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2014		1				1						
Downbound	Domestic	4	000687	2061	195.0	35.0	2	12.0	1.6	0.4	9999	2014	N	1								1		
Downbound	Domestic	4	764	1666	200.0	35.0	2	9.0	1.5	0.5	170	2014	N	1								1		
Downbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2014		1								1		
Downbound	Domestic	4	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2014	N	1								1		
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2015	N	14			14							
Upbound	Domestic	4	676	1725	195.0	35.0	8	10.0	1.6	6.4	200	2015	N	1			1							
Upbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2015	N	2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2015	N	2			2							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2015	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2015	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2015	N	2			2							
Upbound	Domestic	4	000687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	2			2							
Upbound	Domestic	4	823	2469	200.0	35.0	9	12.0	1.6	7.4	250	2015	N	2			2							
Upbound	Domestic	4	764	1555	200.0	35.0	8	9.0	1.6	6.4	130	2015	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2015	N	1			1							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2015	N	20			20							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2015	N	42			42							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2015	N	22			22							
Upbound	Domestic	4	573	1500	195.0	35.0	7	10.0	2.0	5.0	110	2015		201			201							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	5			5							
Upbound	Domestic	4	687	1514	195.0	35.0	9	9.0	1.5	7.5	206	2015	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2015	N	2			2							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2015	N	4			4							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2015		2			2							
Upbound	Domestic	4	723	1875	200.0	35.0	8	10.0	1.7	6.3	163	2015	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2015	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2015		1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2015	N	1			1							
Upbound	Domestic	5	001754	3665	297.5	54.0	2	11.0	2.0	0.0	180	2015	N	2									2	
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2015	N	19			19							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2015	N	3			3							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2015	N	3			3							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2015	N	4			4							
Upbound	Domestic	4	000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2015	N	2			2							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	10.0	1.9	6.1	206	2015		1			1							
Upbound	Domestic	4	000764	1657	200.0	35.0	11	9.0	3.0	8.0	9999	2015	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	1.7	4.3	190	2015	N	1			1							
Upbound	Domestic	4	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2015	N	1			1							
Upbound	Domestic	4	764	1535	200.0	35.0	7	9.0	1.8	5.2	225	2015	N	1			1							
Upbound	Domestic	4	764	1610	200.0	35.0	8	9.0	1.6	6.4	165	2015	N	1			1							
Upbound	Domestic	4	000764	1625	200.0	35.0	14	9.0	3.0	11.0	9999	2015	N	1			1							
Upbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2015	N	1			1							
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2015		5		5								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2015		4									4	
Upbound	Domestic	4	000823	2058	200.0	35.0	2	9.0	2.0	0.0	186	2015	N	1							1			
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2015	N	11			11							
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	5			5							
Upbound	Domestic	4	764	1629	200.0	35.0	7	9.0	1.5	5.5	225	2015	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2015	N	1			1							
Upbound	Domestic	4	000764	1533	200.0	35.0	7	9.0	1.6	5.4	230	2015	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2015	N	7			7							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2015	N	3			3							
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2015	N	6			6							
Upbound	Domestic	4	764	1517	200.0	35.0	9	9.0	1.9	7.1	225	2015	N	1			1							
Upbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2015	N	1			1							
Upbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2015		25		25								
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2015	N	2									2	
Upbound	Domestic	4	770	1769	200.0	35.0	7	10.0	1.5	5.5	149	2015	N	2			2							
Upbound	Domestic	4	000764	1521	200.0	35.0	9	9.0	1.8	7.2	225	2015	N	3			3							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2015	N	3			3							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2015	N	4			4							
Upbound	Domestic	5	788	1488	195.0	35.0	9	9.0	2.5	6.5	140	2015	N	2					2					
Upbound	Domestic	4	000705	1650	200.0	35.0	12	12.0	1.5	10.5	208	2015	N	2			2							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2015	N	3			3							
Upbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.8	7.2	225	2015	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2015	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2015	N	2			2							
Upbound	Domestic	4	000823	1536	200.0	35.0	8	9.0	1.7	6.3	140	2015	N	1			1							
Upbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2015	N	2									2	
Upbound	Domestic	5	001619	3517	297.0	54.0	1	10.0	0.6	0.4	280	2015		1									1	
Upbound	Domestic	4	764	1910	200.0	35.0	8	9.0	2.0	6.0	195	2015		2			2							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2015	N	1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2015	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2015		2					2					
Upbound	Domestic	5	001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2015		1					1					
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2015	N	4			4							
Upbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2015	N	5			5							
Upbound	Domestic	4	000823	1534	200.0	35.0	9	9.0	1.7	7.3	235	2015	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.6	5.4	148	2015	N	2			2							
Upbound	Domestic	4	000823	1530	200.0	35.0	9	9.0	1.6	7.4	180	2015	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2015	N	4			4							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	225	2015	N	1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2015	N	1			1							
Upbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2015	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	7	14.0	1.6	5.4	250	2015	N	1			1							
Upbound	Domestic	4	000764	1933	200.0	35.0	3	10.0	2.0	1.0	215	2015	N	1							1			
Upbound	Domestic	5	001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2015		2									2	
Upbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2015	N	1							1			
Upbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2015	N	3			3							
Upbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2015	N	4			4							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2015	N	1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2015	N	4			4							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2015		3					3					
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.7	6.3	206	2015		1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2015		5			5							
Upbound	Domestic	4	764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2015	N	3			3							
Upbound	Domestic	4	000764	1615	200.0	35.0	11	12.0	1.8	9.2	170	2015		1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2015	N	3			3							
Upbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2015	N	3			3							
Upbound	Domestic	4	862	1539	195.0	35.0	8	9.0	1.5	6.5	192	2015	N	1			1							
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2015		1									1	
Upbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2015		2		2								
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	3			3							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2015	N	2			2							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2015	N	6			6							
Upbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2015	N	2			2							
Upbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2015	N	1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	4			4							
Upbound	Domestic	4	000764	1616	200.0	35.0	9	9.0	1.6	7.4	205	2015	N	2			2							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2015	N	3			3							
Upbound	Domestic	4	000823	2792	200.0	35.0	9	12.0	1.7	7.3	250	2015	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2015	N	3			3							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2015	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	7	9.0	1.5	5.5	205	2015	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	230	2015	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2015	N	1			1							
Upbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2015	N	1			1							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2015	N	1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	1							1			
Upbound	Domestic	5	001455	3200	295.0	54.0	2	10.0	2.0	0.0	170	2015		1									1	
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2015	N	5			5							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2015	N	2			2							
Upbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	9999	2015	N	1			1							
Upbound	Domestic	4	000745	1507	195.0	35.0	6	9.0	1.6	4.4	139	2015	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	12	11.0	1.9	10.1	206	2015		1			1							
Upbound	Domestic	4	000764	2131	200.0	35.0	6	13.0	1.9	4.1	206	2015		1			1							
Upbound	Domestic	5	001623	3200	297.7	54.1	2	9.0	2.0	0.0	180	2015		5									5	
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2015	N	13			13							
Upbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2015	N	6			6							
Upbound	Domestic	4	000764	1766	200.0	35.0	8	9.6	1.3	6.7	150	2015	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2015	N	4			4							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000745	2090	195.0	35.0	9	11.0	1.8	7.2	170	2015		1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2015	N	3			3							
Upbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2015		4			4							
Upbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2015	N	1			1							
Upbound	Domestic	4	000764	1637	200.0	35.0	8	9.0	1.7	6.3	199	2015		1			1							
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2015		39		39								
Upbound	Domestic	4	000823	2200	200.0	35.0	2	12.0	2.0	0.0	165	2015	N	1							1			
Upbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2015	N	2							2			
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2015	N	8			8							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2015	N	3			3							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2015		10			10							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	2			2							
Upbound	Domestic	5	1914	3390	297.0	54.0	9	9.6	1.5	7.5	120	2015		1					1					
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2015	N	1			1							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2015	N	3			3							
Upbound	Domestic	4	764	1548	200.0	35.0	7	9.0	1.7	5.3	212	2015	N	1			1							
Upbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	2			2							
Upbound	Domestic	5	687	1516	195.0	35.0	8	9.0	1.0	7.0	150	2015	N	1					1					
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2015		2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2015		2			2							
Upbound	Domestic	4	745	2345	195.0	35.0	8	13.0	1.6	6.4	209	2015	N	1			1							
Upbound	Domestic	4	000764	1556	200.0	35.0	7	9.0	1.6	5.4	225	2015	N	1			1							
Upbound	Domestic	5	001754	5262	297.5	54.0	7	12.0	2.0	5.0	180	2015	N	1					1					
Upbound	Domestic	4	000687	1534	200.0	35.0	8	9.0	1.6	6.4	160	2015	N	1			1							
Upbound	Domestic	3	000132	443	110.0	32.0	2	10.3	8.6	-6.6	456	2015		2		2								
Upbound	Domestic	4	745	2077	195.0	35.0	2	9.0	1.5	0.5	215	2015	N	1							1			
Upbound	Domestic	4	000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2015	N	2			2							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2015	N	6					6					
Upbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2015	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2015	N	5			5							
Upbound	Domestic	4	763	2290	195.0	35.0	8	12.0	1.7	6.3	235	2015	N	1			1							
Upbound	Domestic	4	823	1641	200.0	35.0	14	12.0	1.4	12.6	200	2015	N	1			1							
Upbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2015	N	3			3							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2015	N	6			6							
Upbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2015	N	2			2							
Upbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2015	N	2			2							
Upbound	Domestic	4	000764	1560	200.0	35.0	11	9.0	3.0	8.0	9999	2015	N	1			1							
Upbound	Domestic	4	823	1843	200.0	35.0	8	13.0	1.6	6.4	230	2015	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2015	N	1			1							
Upbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2015		71		71								
Upbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2015	N	4							4			
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2015	N	2			2							
Upbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2015	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	1869	2015	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	2.0	5.0	135	2015	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2015	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2015	N	1							1			
Upbound	Domestic	5	2700	2500	281.0	50.0	3	9.0	2.5	0.5	230	2015		2									2	
Upbound	Domestic	3	94	999999	98.2	34.0	7	7.0	7.0	0.0	300	2015	N	1		1								
Upbound	Domestic	5	001754	3665	297.5	54.0	2	12.0	2.0	0.0	180	2015	N	1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2015	N	1							1			
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2015	N	1			1							
Upbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2015	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	10	11.0	1.5	8.5	215	2015	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2015	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.5	7.5	160	2015	N	1			1							
Upbound	Domestic	4	000705	1618	200.0	35.0	8	9.0	1.6	6.4	210	2015	N	1			1							
Upbound	Domestic	4	1072	1870	200.0	35.0	8	10.0	1.5	6.5	169	2015	N	1			1							
Upbound	Domestic	3	000466	686	140.0	38.0	8	11.0	8.0	0.0	490	2015	N	1		1								
Upbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2015	N	1							1			
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2015	N	29			29							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2015	N	7			7							
Upbound	Domestic	4	000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2015	N	2			2							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	2			2							
Upbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2015	N	1							1			
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2015	N	7			7							
Upbound	Domestic	4	000764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2015	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2015		1			1							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2015		2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2015		2			2							
Upbound	Domestic	4	802	1481	195.0	35.0	11	11.0	1.8	9.2	250	2015		1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	3			3							
Upbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2015	N	1			1							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	217	2015	N	1			1							
Upbound	Domestic	5	2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2015		2									2	
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2015	N	5			5							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2015	N	1			1							
Upbound	Domestic	4	000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2015	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	130	2015	N	2			2							
Upbound	Domestic	4	802	1660	200.0	35.0	8	9.0	2.0	6.0	139	2015	N	1			1							
Upbound	Domestic	4	799	1887	200.0	35.0	8	10.0	1.4	6.6	149	2015	N	1			1							
Upbound	Domestic	4	000764	1858	200.0	35.0	8	10.0	1.6	6.4	191	2015	N	1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2015	N	2			2							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2015	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2015	N	2			2							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2015		2					2					
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	194	2015	N	1			1							
Upbound	Domestic	4	672	1633	200.0	40.0	7	9.0	2.0	5.0	100	2015	N	4			4							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2015	N	1			1							
Upbound	Domestic	4	000823	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2015	N	1			1							
Upbound	Domestic	4	705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2015	N	1			1							
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2015		1		1								
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2015	N	9			9							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	255	2015	N	2			2							
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2015	N	3							3			
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2015	N	21			21							
Upbound	Domestic	4	000764	2292	200.0	35.0	6	10.0	1.7	4.3	160	2015	N	1			1							
Upbound	Domestic	4	573	1500	195.0	35.0	6	10.0	2.0	4.0	110	2015		27			27							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2015	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.6	8.4	165	2015	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2015	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	12.0	1.8	6.2	170	2015		1			1							
Upbound	Domestic	5	750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2015	N	2									2	
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	7			7							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2015	N	1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	8	10.0	1.5	6.5	149	2015	N	2			2							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2015	N	2			2							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2015	N	2			2							
Upbound	Domestic	5	1619	4465	297.5	54.0	2	12.0	2.0	0.0	220	2015		1									1	
Upbound	Domestic	3	000102	342	110.0	32.0	2	10.3	8.6	-6.6	400	2015	N	1		1								
Upbound	Domestic	4	823	2161	200.0	35.0	8	12.0	1.8	6.2	224	2015	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2015	N	5			5							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	3			3							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	11.0	2.0	7.0	165	2015	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2015	N	3			3							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2015	N	3			3							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2015	N	6			6							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2015	N	5			5							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2015		1			1							
Upbound	Domestic	4	000764	1556	200.0	35.0	6	9.0	1.6	4.4	225	2015	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.6	6.4	155	2015	N	1			1							
Upbound	Domestic	4	600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2015	N	1			1							
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2015	N	1			1							
Upbound	Domestic	4	764	1546	200.0	35.0	9	9.0	1.5	7.5	170	2015	N	1			1							
Upbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2015	N	1			1							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2015	N	6			6							
Upbound	Domestic	4	000745	2235	195.0	13.0	8	15.0	3.0	5.0	9999	2015	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2015	N	2			2							
Upbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	1			1							
Upbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2015	N	2			2							
Upbound	Domestic	4	687	1501	195.0	35.0	9	12.0	1.5	7.5	186	2015	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	9	9.0	1.7	7.3	195	2015	N	1			1							
Upbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	2			2							
Upbound	Domestic	4	000764	1862	200.0	35.0	7	10.0	1.5	5.5	191	2015	N	1			1							
Upbound	Domestic	4	000823	2235	200.0	35.0	10	12.0	1.6	8.4	230	2015	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.5	6.5	217	2015	N	1			1							
Upbound	Domestic	5	834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2015		2									2	
Upbound	Domestic	3	000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2015		22		22								
Upbound	Domestic	5	001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2015		4									4	
Upbound	Domestic	4	764	1626	200.0	35.0	2	9.0	1.5	0.5	165	2015	N	1							1			
Upbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2015	N	1							1			
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	115	2015	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2015	N	3			3							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2015	N	9			9							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2015	N	21			21							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2015	N	2			2							
Upbound	Domestic	4	705	1877	200.0	35.0	8	10.0	1.4	6.6	146	2015	N	1			1							
Upbound	Domestic	4	764	2073	200.0	35.0	8	11.6	1.6	6.4	250	2015	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2015	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2015	N	5			5							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	1.7	7.3	160	2015	N	4			4							
Upbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	2			2							
Upbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2015	N	2			2							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2015		15			15							
Upbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2015	N	3			3							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2015	N	2			2							
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2015	N	2			2							
Upbound	Domestic	4	764	1637	200.0	35.0	7	9.0	1.5	5.5	155	2015	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2015	N	1			1							
Upbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2015	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	228	2015	N	1			1							
Upbound	Domestic	5	775	1477	195.0	35.0	8	9.0	1.8	6.2	184	2015	N	1					1					
Upbound	Domestic	5	1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2015		1									1	
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2015	N	13			13							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2015	N	2			2							
Upbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2015	N	5			5							
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2015	N	3			3							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2015	N	6			6							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	7			7							
Upbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2015	N	3			3							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2015	N	2			2							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2015	N	3			3							
Upbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2015	N	4			4							
Upbound	Domestic	4	000823	1750	200.0	35.0	10	10.0	1.7	8.3	140	2015	N	1			1							
Upbound	Domestic	5	2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2015		2									2	
Upbound	Domestic	4	000764	1764	200.0	35.0	11	10.5	1.5	9.5	130	2015	N	1			1							
Upbound	Domestic	5	001918	3100	297.5	54.0	10	10.3	2.0	8.0	193	2015		1					1					
Upbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2015	N	1			1							
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2015	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	7	9.0	1.6	5.4	139	2015	N	3			3							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2015	N	2			2							
Upbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2015	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	6	12.0	2.0	4.0	194	2015	N	1			1							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2015	N	3			3							
Upbound	Domestic	4	763	2290	200.0	35.0	8	12.0	1.6	6.4	236	2015	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2015	N	2			2							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2015		1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2015		20		20								
Upbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2015		167		167								
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2015	N	7			7							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2015	N	1			1							
Upbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2015	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	205	2015	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2015	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2015	N	33			33							
Upbound	Domestic	4	000700	2187	200.0	35.0	4	12.0	1.7	2.3	250	2015	N	1			1							
Upbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2015	N	1			1							
Upbound	Domestic	4	802	2110	195.0	35.0	8	12.0	1.8	6.2	234	2015	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2015	N	2							2			
Upbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2015	N	4							4			
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	1.6	6.4	220	2015	N	1			1							
Upbound	Domestic	5	847	1450	195.0	35.0	8	9.0	1.1	6.9	170	2015	N	2					2					
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2015		7			7							
Upbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2015	N	2			2							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2015	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.7	5.3	199	2015	N	1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2015	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2015	N	2			2							
Upbound	Domestic	4	764	1875	200.0	35.0	7	10.0	1.7	5.3	154	2015	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2015	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	190	2015	N	2			2							
Upbound	Domestic	4	823	2295	200.0	35.0	8	12.0	1.4	6.6	227	2015		1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2015	N	1							1			
Upbound	Domestic	5	001151	3275	175.0	54.0	2	9.0	1.5	0.5	164	2015		3									3	
Upbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2015	N	1							1			
Upbound	Domestic	5	914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2015		1									1	
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	25			25							
Upbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2015	N	2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2015		34			34							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2015	N	6			6							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2015		11			11							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2015	N	4			4							
Upbound	Domestic	5	001619	3360	297.0	54.0	10	10.0	0.6	9.4	280	2015		1					1					
Upbound	Domestic	4	000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2015	N	1			1							
Upbound	Domestic	4	000764	1615	200.0	35.0	10	10.0	1.8	8.2	170	2015		1			1							
Upbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2015	N	1			1							
Upbound	Domestic	4	929	2010	200.0	35.0	9	10.6	1.3	7.7	220	2015	N	1			1							
Upbound	Domestic	4	764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2015	N	1			1							
Upbound	Domestic	4	705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 000764	1551	200.0	35.0	7	9.0	1.6	5.4	225	2015	N	1			1							
Upbound	Domestic		3 199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2015		18		18								
Upbound	Domestic		5 1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2015		2									2	
Upbound	Domestic		4 000764	1650	200.0	35.0	2	13.0	1.5	0.5	208	2015	N	1							1			
Upbound	Domestic		4 000764	1800	200.0	35.0	2	9.0	2.0	0.0	130	2015	N	1							1			
Upbound	Domestic		4 000687	1490	195.0	35.0	9	9.0	1.8	7.2	205	2015	N	1			1							
Upbound	Domestic		4 706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	3			3							
Upbound	Domestic		4 000705	1617	200.0	35.0	9	9.0	1.6	7.4	205	2015	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2015	N	2			2							
Upbound	Domestic		4 000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2015	N	1			1							
Upbound	Domestic		4 764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2015	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2015	N	1			1							
Upbound	Domestic		3 000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2015		2		2								
Upbound	Domestic		4 000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2015	N	3							3			
Upbound	Domestic		4 764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2015	N	3							3			
Upbound	Domestic		4 000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2015	N	4			4							
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2015	N	7			7							
Upbound	Domestic		4 000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2015	N	3			3							
Upbound	Domestic		4 000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2015	N	5			5							
Upbound	Domestic		4 564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2015	N	2			2							
Upbound	Domestic		4 000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2015	N	1			1							
Upbound	Domestic		4 676	1502	195.0	35.0	7	9.0	1.7	5.3	164	2015	N	1			1							
Upbound	Domestic		4 823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2015	N	3			3							
Upbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2015	N	1			1							
Upbound	Domestic		4 706	1587	200.0	35.0	8	9.0	1.5	6.5	155	2015	N	1			1							
Upbound	Domestic		4 000764	1651	200.0	35.0	9	13.0	1.9	7.1	206	2015		1			1							
Upbound	Domestic		4 000764	1615	200.0	35.0	11	11.0	1.8	9.2	170	2015		1			1							
Upbound	Domestic		4 000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2015	N	1			1							
Upbound	Domestic		5 834	2502	147.6	54.0	1	9.5	1.5	-0.5	185	2015		1									1	
Upbound	Domestic		4 000745	1648	195.0	35.0	12	12.0	1.5	10.5	186	2015	N	1			1							
Upbound	Domestic		5 000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2015	N	2					2					
Upbound	Domestic		4 764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	2			2							
Upbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2015	N	3			3							
Upbound	Domestic		4 764	1558	200.0	35.0	8	9.0	1.5	6.5	160	2015	N	1			1							
Upbound	Domestic		4 000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2015	N	4			4							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2015	N	2			2							
Upbound	Domestic		4 802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2015	N	1			1							
Upbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2015	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2015		2			2							
Upbound	Domestic		4 764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	5			5							
Upbound	Domestic		4 000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2015	N	3			3							
Upbound	Domestic		4 000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2015		5			5							
Upbound	Domestic		4 705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2015	N	3			3							
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2015	N	6			6							
Upbound	Domestic		4 000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2015	N	1			1							
Upbound	Domestic		4 000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2015	N	1			1							
Upbound	Domestic		4 823	1634	200.0	35.0	9	9.0	1.5	7.5	175	2015	N	1			1							
Upbound	Domestic		4 000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2015	N	1			1							
Upbound	Domestic		3 000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2015		21		21								
Upbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2015	N	10			10							
Upbound	Domestic		4 000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2015	N	2			2							
Upbound	Domestic		4 823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2015	N	1			1							
Upbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2015	N	4			4							
Upbound	Domestic		4 823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2015	N	3			3							
Upbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2015	N	11			11							
Upbound	Domestic		4 933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2015	N	4			4							
Upbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2015	N	3			3							
Upbound	Domestic		4 764	1518	200.0	35.0	6	9.0	1.8	4.2	205	2015	N	1			1							
Upbound	Domestic		4 000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2015	N	1			1							
Upbound	Domestic		4 000764	1504	200.0	35.0	7	9.0	1.9	5.1	206	2015		1			1							
Upbound	Domestic		4 823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2015	N	1			1							
Upbound	Domestic		4 000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2015	N	2							2			
Upbound	Domestic		5 1619	3300	297.5	54.0	2	9.0	2.0	0.0	180	2015		1									1	
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2015	N	17			17							
Upbound	Domestic		4 000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2015	N	2			2							
Upbound	Domestic		4 000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2015	N	8			8							
Upbound	Domestic		4 000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2015	N	2			2							
Upbound	Domestic		4 000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2015	N	1			1							
Upbound	Domestic		4 000764	2200	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	1			1							
Upbound	Domestic		4 000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2015	N	1			1							
Upbound	Domestic		4 705	1774	200.0	35.0	7	10.0	1.6	5.4	170	2015	N	2			2							
Upbound	Domestic		4 772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2015	N	4			4							
Upbound	Domestic		4 764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2015	N	2			2							
Upbound	Domestic		4 000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2015	N	1			1							
Upbound	Domestic		4 000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2015	N	1			1							
Upbound	Domestic		4 764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2015	N	3			3							
Upbound	Domestic		4 764	1648	200.0	35.0	12	10.0	1.5	10.5	186	2015	N	1			1							
Upbound	Domestic		4 933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2015	N	1			1							
Upbound	Domestic		4 745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2015	N	2			2							
Upbound	Domestic		4 000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2015	N	2			2							
Upbound	Domestic		4 764	1518	200.0	35.0	8	9.0	1.8	6.2	205	2015	N	1			1							
Upbound	Domestic		4 000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2015		3			3							
Upbound	Domestic		4 000764	1504	200.0	35.0	12	13.0	1.9	10.1	206	2015		1			1							
Upbound	Domestic		3 258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2015		10		10								
Upbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2015	N	2			2							
Upbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2015	N	3			3							
Upbound	Domestic		4 745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2015	N	5			5							
Upbound	Domestic		4 573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2015		44			44							
Upbound	Domestic		4 000573	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2015		22			22							
Upbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2015	N	4			4							
Upbound	Domestic		4 933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2015	N	1			1							
Upbound	Domestic		4 764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2015	N	1			1							
Upbound	Domestic		4 000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2015		1			1							
Upbound	Domestic		5 001754	3390	297.5	54.0	2	11.0	2.0	0.0	180	2015	N	2									2	
Upbound	Domestic		4 700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2015	N	5			5							
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2015	N	4			4							
Upbound	Domestic		4 000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	7			7							
Upbound	Domestic		4 000745	1502	195.0	35.0	9	9.0	1.6	7.4	115	2015	N	1			1							
Upbound	Domestic		4 823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2015	N	1			1							
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2015	N	4			4							
Upbound	Domestic		4 000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2015	N	1			1							
Upbound	Domestic		5 000735	1511	200.0	35.0	9	9.2	2.0	7.0	179	2015	N	1					1					
Upbound	Domestic		4 764	1879	200.0	35.0	8	10.0	1.5	6.5	218	2015	N	1			1							
Upbound	Domestic		4 000705	1659	200.0	35.0	9	9.0	1.4	7.6	205	2015	N	1			1							
Upbound	Domestic		4 764	1666	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	1			1							
Upbound	Domestic		3 34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2015		110		110								
Upbound	Domestic		5 1619	3300	297.0	54.0	2	9.0	2.0	0.0	180	2015		2									2	
Upbound	Domestic		4 764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2015	N	14			14							
Upbound	Domestic		4 000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2015	N	32			32							
Upbound	Domestic		4 764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	3			3							
Upbound	Domestic		4 764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2015	N	3			3							
Upbound	Domestic		4 823	2188	200.0	35.0	10	12.0	1.6	8.4	225	2015	N	2			2							
Upbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2015	N	2			2							
Upbound	Domestic		4 745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2015		2			2							
Upbound	Domestic		4 823	1640	200.0	35.0	9	9.0	1.5	7.5	220	2015	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic		4 000802	2406	105.0	35.0	8	10.0	2.0	6.0	9999	2015	N	1			1							
Upbound	Domestic		4 764	1640	200.0	35.0	6	9.0	1.5	4.5	225	2015	N	1			1							
Upbound	Domestic		3 275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2015		16		16								
Upbound	Domestic		5 1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2015		2									2	
Upbound	Domestic		4 000764	1560	200.0	35.0	3	9.0	2.0	1.0	9999	2015	N	1							1			
Upbound	Domestic		4 823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2015	N	3			3							
Upbound	Domestic		4 000764	1650	200.0	35.0	12	13.0	1.5	10.5	208	2015	N	1			1							
Upbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2015	N	3			3							
Upbound	Domestic		4 705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2015	N	1			1							
Upbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.5	7.5	165	2015	N	1			1							
Upbound	Domestic		4 764	2292	200.0	35.0	2	12.0	1.5	0.5	170	2015	N	1							1			
Upbound	Domestic		4 578	1531	195.0	35.0	8	9.0	1.6	6.4	140	2015	N	2			2							
Upbound	Domestic		4 705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2015	N	1			1							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2015	N	1			1							
Upbound	Domestic		4 000764	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2015	N	4							4			
Upbound	Domestic		5 1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2015		1									1	
Upbound	Domestic		4 823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2015	N	1			1							
Upbound	Domestic		4 000745	1600	195.0	35.0	10	11.0	1.5	8.5	160	2015	N	1			1							
Upbound	Domestic		5 835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2015	N	8					8					
Upbound	Domestic		4 600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2015	N	2			2							
Upbound	Domestic		4 764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	1			1							
Upbound	Domestic		4 727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2015	N	2			2							
Upbound	Domestic		4 772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2015	N	1			1							
Upbound	Domestic		4 764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2015	N	1			1							
Upbound	Domestic		4 764	1617	200.0	35.0	8	9.0	1.4	6.6	160	2015	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2015	N	1			1							
Upbound	Domestic		3 000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2015	N	1		1								
Upbound	Domestic		4 764	1533	200.0	35.0	2	9.0	1.7	0.3	170	2015	N	1							1			
Upbound	Domestic		4 000764	2085	200.0	35.0	2	13.0	1.5	0.5	240	2015	N	1							1			
Upbound	Domestic		4 745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2015	N	13			13							
Upbound	Domestic		4 823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2015	N	2			2							
Upbound	Domestic		4 000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2015	N	7			7							
Upbound	Domestic		4 000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2015	N	1			1							
Upbound	Domestic		4 764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2015	N	1			1							
Upbound	Domestic		4 000764	2300	200.0	35.0	8	13.0	1.5	6.5	165	2015	N	1			1							
Upbound	Domestic		4 663	1673	200.0	35.0	8	9.0	1.6	6.4	140	2015	N	1			1							
Upbound	Domestic		3 000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2015		25		25								
Upbound	Domestic		5 001623	32000	297.7	54.1	2	9.0	2.0	0.0	180	2015		1									1	
Upbound	Domestic		3 141	999999	111.0	36.0	8	8.0	8.0	0.0	440	2015	N	1		1								
Upbound	Domestic		4 000705	1650	200.0	35.0	2	10.0	1.5	0.5	208	2015	N	1							1			
Upbound	Domestic		4 764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	2			2							
Upbound	Domestic		4 000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2015		8			8							
Upbound	Domestic		4 000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2015		3			3							
Upbound	Domestic		4 000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2015		2			2							
Upbound	Domestic		4 000764	1605	200.0	35.0	12	9.0	3.0	9.0	9999	2015	N	1			1							
Upbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2015	N	2			2							
Upbound	Domestic		4 705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2015	N	1			1							
Upbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2015	N	1			1							
Upbound	Domestic		4 764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	1			1							
Upbound	Domestic		4 000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2015		1			1							
Upbound	Domestic		4 823	2289	200.0	35.0	9	12.0	1.6	7.4	240	2015	N	1			1							
Upbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	9			9							
Upbound	Domestic		5 001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2015		1					1					
Upbound	Domestic		4 000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2015	N	2			2							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2015	N	1			1							
Upbound	Domestic		4 000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	1			1							
Upbound	Domestic		4 823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2015	N	3			3							
Upbound	Domestic		4 823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2015	N	1			1							
Upbound	Domestic		5 000705	1650	200.0	35.0	9	9.6	2.0	7.0	189	2015	N	1					1					
Upbound	Domestic		4 000764	2131	200.0	35.0	7	11.0	1.9	5.1	206	2015		1			1							
Upbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2015	N	2			2							
Upbound	Domestic		4 000823	2410	200.0	35.0	9	14.0	1.5	7.5	190	2015	N	1			1							
Upbound	Domestic		5 001619	5666	297.0	54.0	1	10.0	0.6	0.4	280	2015		1									1	
Upbound	Domestic		4 745	1914	195.0	35.0	8	11.0	1.7	6.3	234	2015	N	2			2							
Upbound	Domestic		4 764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2015	N	1			1							
Upbound	Domestic		4 764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	2			2							
Upbound	Domestic		4 763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2015	N	2			2							
Upbound	Domestic		4 823	2077	200.0	35.0	12	12.0	1.5	10.5	215	2015	N	1			1							
Upbound	Domestic		4 000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2015	N	1			1							
Upbound	Domestic		4 000745	1497	195.0	35.0	6	9.0	1.6	4.4	130	2015	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2015	N	1			1							
Upbound	Domestic		4 000764	2528	200.0	35.0	8	13.0	1.5	6.5	186	2015	N	1			1							
Upbound	Domestic		4 000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2015	N	1							1			
Upbound	Domestic		4 764	2000	200.0	35.0	2	12.0	1.5	0.5	9999	2015	N	1							1			
Upbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2015	N	3			3							
Upbound	Domestic		5 761	1740	195.0	35.0	8	9.9	1.5	6.5	200	2015	N	1					1					
Upbound	Domestic		4 000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2015	N	3			3							
Upbound	Domestic		4 000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2015	N	2			2							
Upbound	Domestic		4 000823	2161	200.0	35.0	8	12.0	1.8	6.2	9999	2015	N	1			1							
Upbound	Domestic		4 000764	1608	200.0	35.0	9	9.0	1.7	7.3	215	2015	N	1			1							
Upbound	Domestic		4 000764	1640	200.0	35.0	8	9.0	1.5	6.5	160	2015	N	1			1							
Upbound	Domestic		4 823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2015	N	1			1							
Upbound	Domestic		5 000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2015		2									2	
Upbound	Domestic		4 764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2015	N	1							1			
Upbound	Domestic		4 705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2015	N	17			17							
Upbound	Domestic		4 764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2015	N	2			2							
Upbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2015	N	9			9							
Upbound	Domestic		4 823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2015	N	2			2							
Upbound	Domestic		4 764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2015	N	5			5							
Upbound	Domestic		4 764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2015	N	6			6							
Upbound	Domestic		5 809	1487	195.0	35.0	8	9.0	1.8	6.2	213	2015	N	2					2					
Upbound	Domestic		4 000764	1700	200.0	35.0	9	9.0	1.9	7.1	206	2015		1			1							
Upbound	Domestic		4 000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	10			10							
Upbound	Domestic		4 764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2015	N	1			1							
Upbound	Domestic		4 764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2015	N	1			1							
Upbound	Domestic		4 823	1643	200.0	35.0	11	12.0	1.3	9.7	9999	2015	N	1			1							
Upbound	Domestic		4 823	1750	200.0	35.0	10	10.0	1.6	8.4	155	2015	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	8	9.0	1.6	6.4	206	2015		1			1							
Upbound	Domestic		4 682	1550	195.0	35.0	9	9.0	2.0	7.0	192	2015	N	1			1							
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2015	N	9			9							
Upbound	Domestic		4 764	1625	200.0	35.0	8	9.0	1.7	6.3	220	2015	N	2			2							
Upbound	Domestic		4 856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2015	N	2			2							
Upbound	Domestic		5 773	1489	195.1	35.1	8	9.0	1.8	6.2	166	2015	N	1					1					
Upbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2015	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	13	12.0	1.5	11.5	215	2015	N	1			1							
Upbound	Domestic		4 823	2077	200.0	35.0	11	10.0	1.5	9.5	215	2015	N	1			1							
Upbound	Domestic		4 000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2015	N	1			1							
Upbound	Domestic		4 000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2015	N	1			1							
Upbound	Domestic		4 573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2015		27							27			
Upbound	Domestic		4 000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2015	N	1							1			
Upbound	Domestic		5 814	2442	148.0	54.0	2	9.0	2.0	0.0	180	2015		2									2	
Upbound	Domestic		4 823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2015	N	3			3							
Upbound	Domestic		4 000705	1699	200.0	35.0	8	9.0	1.2	6.8	145	2015	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	12	11.0	1.8	10.2	120	2015		1			1							
Upbound	Domestic		4 000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2015	N	9			9							
Upbound	Domestic		5 000705	2300	200.0	35.0	5	8.0	1.0	4.0	120	2015	N	1					1					

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2015	N	2			2							
Upbound	Domestic	4	933	1527	195.0	35.0	10	12.0	1.5	8.5	199	2015	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2015	N	3			3							
Upbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2015	N	1			1							
Upbound	Domestic	4	000764	1536	200.0	35.0	9	9.0	1.5	7.5	160	2015	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2015	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2015	N	2			2							
Upbound	Domestic	4	000764	1652	200.0	35.0	2	9.0	2.0	0.0	215	2015	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2015	N	33			33							
Upbound	Domestic	4	000764	1633	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2015	N	2			2							
Upbound	Domestic	4	823	2078	200.0	35.0	8	11.0	1.6	6.4	250	2015		1			1							
Upbound	Domestic	4	000764	2651	200.0	35.0	7	9.0	1.6	5.4	206	2015		1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	7	9.0	1.5	5.5	208	2015	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2015	N	4					4					
Upbound	Domestic	3	101	999999	77.7	32.1	7	7.0	5.5	1.5	300	2015		1		1								
Upbound	Domestic	4	000687	1500	195.0	35.0	3	10.0	3.0	0.0	9999	2015	N	1							1			
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2015	N	15			15							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2015	N	3			3							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	6			6							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2015	N	11			11							
Upbound	Domestic	4	764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	3			3							
Upbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2015		4			4							
Upbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2015	N	1			1							
Upbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2015	N	2			2							
Upbound	Domestic	4	000764	2073	200.0	35.0	10	13.0	1.6	8.4	230	2015	N	1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	6	9.0	2.1	3.9	136	2015	N	0					0					
Upbound	Domestic	4	000764	1619	200.0	35.0	9	10.0	3.0	6.0	206	2015		1			1							
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2015		1									1	
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2015	N	11			11							
Upbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2015	N	3			3							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2015	N	3			3							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	6			6							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2015	N	3			3							
Upbound	Domestic	4	705	1880	200.0	35.0	9	10.0	1.4	7.6	140	2015	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	12.0	1.5	7.5	208	2015	N	1			1							
Upbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2015	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2015	N	1			1							
Upbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2015		3		3								
Upbound	Domestic	3	199	999999	150.2	44.2	8	10.8	9.3	-1.3	430	2015		2		2								
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2015	N	4			4							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2015	N	4			4							
Upbound	Domestic	4	687	1605	195.0	35.0	9	9.5	0.5	8.5	146	2015	N	1			1							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2015	N	3			3							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2015	N	5			5							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	9999	2015	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2015	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	225	2015	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2015	N	1			1							
Upbound	Domestic	4	601	1400	195.0	35.0	8	10.0	2.0	6.0	110	2015		25			25							
Upbound	Domestic	4	470	1200	160.0	35.0	7	8.5	1.5	5.5	100	2015		1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	11			11							
Upbound	Domestic	4	772	2197	200.0	35.0	7	12.0	1.6	5.4	130	2015	N	1			1							
Upbound	Domestic	5	001619	3517	297.0	54.0	9	10.0	0.6	8.4	280	2015		1					1					
Upbound	Domestic	4	000764	1875	200.0	35.0	7	10.0	1.7	5.3	160	2015	N	2			2							
Upbound	Domestic	5	001619	3142	297.0	54.0	10	10.0	0.6	9.4	280	2015		1					1					
Upbound	Domestic	4	764	1865	200.0	35.0	11	11.0	1.5	9.5	208	2015	N	1			1							
Upbound	Domestic	4	000745	745	195.0	35.0	8	10.0	3.0	5.0	9999	2015	N	1			1							
Upbound	Domestic	4	000764	1700	200.0	35.0	7	9.0	1.9	5.1	206	2015		3			3							
Upbound	Domestic	4	745	1499	195.0	35.0	8	9.0	1.5	6.5	130	2015	N	2			2							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2015	N	26							26			
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2015	N	12			12							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2015	N	21			21							
Upbound	Domestic	5	855	1512	195.0	35.0	9	9.4	2.0	7.0	168	2015	N	1					1					
Upbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2015	N	2			2							
Upbound	Domestic	5	773	1475	195.0	35.0	9	9.0	1.3	7.7	165	2015	N	1					1					
Upbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2015	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2015	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.7	8.3	195	2015	N	1			1							
Upbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2015		1			1							
Upbound	Domestic	3	429	999999	140.0	38.0	9	9.0	8.6	0.4	423	2015	N	2		2								
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2015		1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	250	2015	N	2							2			
Upbound	Domestic	4	000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2015	N	1							1			
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2015	N	3			3							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2015	N	4			4							
Upbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2015	N	2			2							
Upbound	Domestic	4	663	1892	200.0	35.0	8	10.0	1.4	6.6	140	2015	N	1			1							
Upbound	Domestic	4	823	2077	200.0	35.0	11	12.0	1.5	9.5	215	2015	N	4			4							
Upbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2015	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2015		2			2							
Upbound	Domestic	4	802	2537	195.0	35.0	2	14.0	1.7	0.3	211	2015	N	3							3			
Upbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2015	N	1							1			
Upbound	Domestic	3	000255	375	110.0	34.0	8	8.0	7.5	0.5	380	2015	N	1		1								
Upbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2015	N	15			15							
Upbound	Domestic	5	835	1426	195.0	35.0	12	12.0	3.0	9.0	136	2015		2					2					
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2015		7			7							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2015	N	1			1							
Upbound	Domestic	4	000745	1648	195.0	35.0	11	12.0	1.5	9.5	186	2015	N	2			2							
Upbound	Domestic	4	823	2077	200.0	35.0	11	11.0	1.5	9.5	215	2015	N	1			1							
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2015		5									5	
Upbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2015		6		6								
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2015	N	4									4	
Upbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2015		3		3								
Upbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	160	2015	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2015	N	32			32							
Upbound	Domestic	4	000764	1504	200.0	35.0	12	11.0	1.9	10.1	206	2015		1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2015	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2015	N	1			1							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2015	N	6			6							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	3			3							
Upbound	Domestic	5	000825	1422	195.0	35.0	9	9.0	1.1	7.9	194	2015	N	1					1					
Upbound	Domestic	5	773	1489	195.0	35.0	8	9.0	1.3	6.7	160	2015	N	1					1					
Upbound	Domestic	4	964	2098	200.0	35.0	9	11.0	1.5	7.5	218	2015	N	2			2							
Upbound	Domestic	4	823	2188	200.0	35.0	6	12.0	1.6	4.4	225	2015	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	7	12.0	2.0	5.0	210	2015		1			1							
Upbound	Domestic	4	000764	1728	200.0	35.0	7	9.0	1.6	5.4	206	2015		1			1							
Upbound	Domestic	4	823	1643	200.0	35.0	10	11.0	1.5	8.5	9999	2015	N	1			1							
Upbound	Domestic	4	000764	1765	200.0	35.0	10	11.0	2.0	8.0	165	2015	N	1			1							
Upbound	Domestic	4	688	1912	195.0	35.0	9	10.0	1.7	7.3	160	2015	N	1			1							
Upbound	Domestic	4	531	1535	195.0	35.0	9	13.0	1.6	7.4	230	2015	N	1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	6	8.0	1.6	4.4	165	2015	N	1			1							
Upbound	Domestic	3	209	999999	100.0	30.0	8	8.0	8.0	0.0	460	2015		1		1								
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2015	N	1			1							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2015	N	3			3							
Upbound	Domestic	4	000764	1608	200.0	35.0	7	9.0	1.7	5.3	215	2015	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
													Total Trips =	84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2015	N	1			1							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2015	N	2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2015	N	5			5							
Upbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2015		2			2							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2015	N	6			6							
Upbound	Domestic	4	000764	1652	200.0	35.0	9	9.0	2.0	7.0	215	2015	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2015	N	1			1							
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2015		9		9								
Upbound	Domestic	3	108	999999	75.0	24.0	9	8.6	8.0	1.0	425	2015		9		9								
Upbound	Domestic	3	000103	344	110.0	32.0	2	10.0	8.6	-6.6	360	2015	N	1		1								
Upbound	Domestic	5	1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2015		1									1	
Upbound	Domestic	4	190	541	110.0	30.0	7	7.0	1.0	6.0	70	2015	N	1			1							
Upbound	Domestic	4	471	1510	195.0	35.0	8	9.0	1.6	6.4	119	2015	N	1			1							
Upbound	Domestic	4	705	2115	200.0	35.0	9	9.0	1.5	7.5	135	2015	N	1			1							
Upbound	Domestic	5	000825	1422	195.0	35.0	8	9.0	1.1	6.9	194	2015	N	3					3					
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2015	N	8					8					
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2015	N	5			5							
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2015		26			26							
Upbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2015	N	4			4							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	23			23							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2015	N	2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.1	6.9	170	2015	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	120	2015		1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	11	12.0	1.5	9.5	9999	2015	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2015	N	1			1							
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2015		27		27								
Upbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2015	N	4									4	
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2015		2									2	
Upbound	Domestic	3	000237	453	96.0	34.0	2	11.0	9.0	-7.0	526	2015	N	1		1								
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2015	N	9			9							
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2015	N	1					1					
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2015	N	2			2							
Upbound	Domestic	4	764	1652	200.0	35.0	9	10.0	1.4	7.6	210	2015	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2015	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2015	N	2			2							
Upbound	Domestic	5	835	1451	195.0	35.0	9	9.0	1.1	7.9	136	2015	N	1					1					
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2015	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2015	N	3			3							
Upbound	Domestic	4	823	2600	200.0	35.0	2	14.0	1.7	0.3	231	2015	N	1							1			
Upbound	Domestic	4	672	1500	200.0	40.0	8	10.0	2.0	6.0	100	2015	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	175	2015	N	1			1							
Upbound	Domestic	4	823	2187	200.0	35.0	8	12.0	1.7	6.3	240	2015	N	1			1							
Upbound	Domestic	5	1918	3100	295.0	54.0	9	9.6	1.5	7.5	120	2015	N	1					1					
Upbound	Domestic	4	823	2078	200.0	35.0	8	11.0	1.6	6.4	250	2015	N	1			1							
Upbound	Domestic	4	687	1501	195.0	35.0	11	10.0	1.5	9.5	186	2015	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2015	N	1			1							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2015		2		2								
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2015		2		2								
Upbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2015	N	1									1	
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2015	N	3			3							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	10			10							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2015	N	3			3							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2015	N	2			2							
Upbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2015	N	1			1							
Upbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2015	N	2			2							
Upbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2015	N	4			4							
Upbound	Domestic	4	000764	1745	200.0	35.0	8	10.0	1.7	6.3	204	2015	N	2			2							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2015	N	1			1							
Upbound	Domestic	4	000764	2474	200.0	35.0	8	12.9	1.6	6.4	205	2015	N	1			1							
Upbound	Domestic	4	000764	1965	200.0	35.0	9	13.0	1.6	7.4	240	2015	N	1			1							
Upbound	Domestic	4	000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	1			1							
Upbound	Domestic	5	1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2015		5									5	
Upbound	Domestic	4	834	1701	195.0	35.0	2	10.0	1.7	0.3	210	2015	N	1							1			
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2015	N	1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2015	N	4			4							
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2015	N	13			13							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	10.0	1.5	9.5	215	2015	N	2			2							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	9999	2015	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	12.0	1.8	8.2	206	2015		2			2							
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2015		1									1	
Upbound	Domestic	5	795	1475	195.0	35.0	8	9.0	1.8	6.2	178	2015	N	1					1					
Upbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2015	N	4			4							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2015	N	3			3							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2015	N	1			1							
Upbound	Domestic	4	000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	3			3							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2015	N	2			2							
Upbound	Domestic	4	000724	1532	200.0	35.0	7	9.0	1.7	5.3	160	2015	N	3			3							
Upbound	Domestic	4	764	1658	200.0	35.0	7	9.0	1.5	5.5	225	2015	N	1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	5	10.0	1.5	3.5	149	2015	N	1			1							
Upbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2015	N	11			11							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2015	N	5			5							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2015	N	8							8			
Upbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2015	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	210	2015	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	10	10.0	1.5	8.5	191	2015	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2015	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2015	N	2			2							
Upbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2015	N	2			2							
Upbound	Domestic	5	000750	1705	200.0	35.0	8	10.0	1.5	6.5	140	2015	N	1					1					
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2015	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	208	2015	N	1							1			
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2015	N	6			6							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	11.0	1.8	7.2	170	2015		1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	8	14.0	1.7	6.3	231	2015	N	2			2							
Upbound	Domestic	4	000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2015	N	1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	6	9.0	1.5	4.5	180	2015	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	7	9.0	1.7	5.3	225	2015	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	125	2015	N	1			1							
Upbound	Domestic	5	001637	3390	297.5	54.0	9	11.0	2.0	7.0	160	2015	N	2					2					
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2015	N	1			1							
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2015	N	1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2015	N	6			6							
Upbound	Domestic	4	000764	2085	200.0	35.0	9	13.0	1.5	7.5	240	2015	N	2			2							
Upbound	Domestic	4	862	1725	195.0	35.0	9	10.0	1.5	7.5	192	2015	N	1			1							
Upbound	Domestic	4	000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2015		2			2							
Upbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2015	N	1			1							
Upbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2015		5		5								
Upbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2015	N	1							1			
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2015	N	7				7						
Downbound	Domestic	4	676	1725	195.0	35.0	8	10.0	1.6	6.4	200	2015	N	2				2						
Downbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2015	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2015	N	3				3						
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2015	N	2				2						
Downbound	Domestic	4	000687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	2				2						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2015	N	1				1						
Downbound	Domestic	4	764	1555	200.0	35.0	8	9.0	1.6	6.4	130	2015	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	823	2469	200.0	35.0	9	12.0	1.6	7.4	250	2015	N	1				1						
Downbound	Domestic	5	886	1489	195.0	35.0	2	9.0	1.3	0.7	164	2015	N	1										1
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	220	2015	N	16								16		
Downbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2015	N	3								3		
Downbound	Domestic	4	706	1587	200.0	35.0	2	9.0	1.5	0.5	155	2015	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2015	N	1								1		
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2015	N	3				3						
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2015	N	3				3						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2015	N	1				1						
Downbound	Domestic	4	705	1663	200.0	35.0	9	9.0	1.5	7.5	223	2015	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2015		1				1						
Downbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2015	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2015	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2015	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2015	N	2								2		
Downbound	Domestic	4	705	1885	200.0	35.0	2	10.0	1.4	0.6	208	2015	N	1								1		
Downbound	Domestic	4	000802	1705	195.0	35.0	2	10.0	1.5	0.5	140	2015	N	1								1		
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2015	N	1										1
Downbound	Domestic	3	000132	443	110.0	32.0	2	10.0	8.6	-6.6	450	2015		1		1								
Downbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	190	2015	N	4								4		
Downbound	Domestic	5	1918	3100	295.0	54.0	2	9.6	1.5	0.5	120	2015	N	1										1
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2015	N	5				5						
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2015	N	1				1						
Downbound	Domestic	4	000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2015	N	1				1						
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2015	N	3				3						
Downbound	Domestic	5	1660	3400	297.6	54.1	8	9.0	2.0	6.0	180	2015		1						1				
Downbound	Domestic	4	000700	2290	200.0	35.0	8	12.0	1.6	6.4	250	2015	N	1				1						
Downbound	Domestic	4	000687	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2015	N	1				1						
Downbound	Domestic	4	000823	1536	200.0	35.0	4	9.0	1.7	2.3	140	2015	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2015	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	10	12.0	1.5	8.5	208	2015	N	1				1						
Downbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2015	N	1				1						
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2015	N	4								4		
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2015		6		6								
Downbound	Domestic	4	764	1635	200.0	35.0	2	9.0	1.5	0.5	165	2015	N	1								1		
Downbound	Domestic	4	764	1665	200.0	35.0	2	9.0	1.4	0.6	155	2015	N	1								1		
Downbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	4				4						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2015	N	3				3						
Downbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2015	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2015	N	4				4						
Downbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2015	N	4				4						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2015	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.7	6.3	160	2015	N	1				1						
Downbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2015	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2015	N	44								44		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2015	N	32								32		
Downbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2015		24		24								
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	165	2015	N	1								1		
Downbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2015	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	13.0	1.9	0.1	206	2015		1								1		
Downbound	Domestic	4	000764	1539	200.0	35.0	2	13.0	1.9	0.1	206	2015		1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2015	N	4				4						
Downbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2015	N	2				2						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2015		2						2				
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2015	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2015	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2015	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	8	13.0	1.5	6.5	165	2015	N	1				1						
Downbound	Domestic	4	000705	1650	200.0	35.0	12	12.0	1.5	10.5	208	2015	N	2				2						
Downbound	Domestic	5	1724	3300	297.6	54.1	10	10.0	2.0	8.0	180	2015		2						2				
Downbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2015	N	1				1						
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2015		25								25		
Downbound	Domestic	4	000745	2100	195.0	35.0	2	12.0	2.0	0.0	9999	2015	N	8								8		
Downbound	Domestic	4	000764	1965	200.0	35.0	2	13.0	1.6	0.4	9999	2015	N	1								1		
Downbound	Domestic	4	745	2345	195.0	35.0	2	13.0	1.6	0.4	209	2015	N	1								1		
Downbound	Domestic	5	001619	3517	297.0	54.0	1	10.0	0.6	0.4	280	2015		1										1
Downbound	Domestic	4	000764	2077	200.0	35.0	4	12.0	1.5	2.5	215	2015	N	1				1						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2015	N	3				3						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2015	N	3				3						
Downbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2015		3						3				
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2015	N	2				2						
Downbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2015	N	5				5						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2015	N	2				2						
Downbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2015	N	2				2						
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2015		5										5
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	2.0	0.0	9999	2015	N	2								2		
Downbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2015	N	2								2		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	125	2015	N	1								1		
Downbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2015	N	1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2015	N	1				1						
Downbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2015	N	4				4						
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2015		3						3				
Downbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2015	N	3				3						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2015	N	3				3						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2015		3				3						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.7	6.3	206	2015		1				1						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2015	N	3				3						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2015	N	2				2						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2015	N	1				1						
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2015	N	1										1
Downbound	Domestic	4	000700	2187	200.0	35.0	2	12.0	1.7	0.3	250	2015	N	2								2		
Downbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2015	N	1								1		
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2015		2		2								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	9999	2015	N	1								1		
Downbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2015	N	2				2						
Downbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2015	N	2				2						
Downbound	Domestic	4	706	1575	200.0	35.0	9	9.0	1.6	7.4	205	2015	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	3				3						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2015	N	5				5						
Downbound	Domestic	4	687	1501	195.0	35.0	12	12.0	1.5	10.5	186	2015	N	1				1						
Downbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2015	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2015	N	2				2						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2015	N	1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2015	N	1						1				
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2015	N	1				1						
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2015	N	12								12		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	190	2015	N	1								1		
Downbound	Domestic	4	000764	2007	200.0	35.0	3	14.0	3.0	0.0	9999	2015	N	2								2		
Downbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2015	N	1								1		
Downbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.5	0.5	191	2015	N	1								1		
Downbound	Domestic	4	764	1560	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2015	N	6				6						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2015	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2015	N	1				1						
Downbound	Domestic	4	000764	1800	200.0	35.0	7	9.0	2.0	5.0	130	2015	N	1				1						
Downbound	Domestic	4	764	1865	200.0	35.0	8	12.0	1.5	6.5	208	2015	N	1				1						
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2015		15								15		
Downbound	Domestic	4	823	2469	200.0	35.0	2	12.0	1.6	0.4	250	2015	N	1								1		
Downbound	Domestic	4	000823	2161	200.0	35.0	2	12.0	1.8	0.2	140	2015	N	1								1		
Downbound	Domestic	4	000823	2100	200.0	35.0	2	12.0	2.0	0.0	165	2015	N	1								1		
Downbound	Domestic	4	823	2279	200.0	35.0	2	9.0	1.7	0.3	223	2015		1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.6	0.4	165	2015	N	1								1		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	12.0	1.8	0.2	206	2015		1								1		
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2015	N	15				15						
Downbound	Domestic	5	2043	4390	297.5	54.0	8	9.3	1.5	6.5	220	2015	N	1						1				
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2015	N	4				4						
Downbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2015	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2015	N	1				1						
Downbound	Domestic	5	001151	3275	175.0	54.0	9	9.0	1.5	7.5	164	2015		3						3				
Downbound	Domestic	4	000745	2090	195.0	35.0	9	11.0	1.8	7.2	170	2015		1				1						
Downbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2015		3				3						
Downbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2015	N	1				1						
Downbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	160	2015	N	2										2
Downbound	Domestic	4	000705	1544	200.0	35.0	2	9.0	1.5	0.5	135	2015	N	3								3		
Downbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2015		37		37								
Downbound	Domestic	4	000705	1699	200.0	35.0	2	9.0	1.2	0.8	145	2015	N	1								1		
Downbound	Domestic	4	823	1750	200.0	35.0	2	10.0	1.6	0.4	155	2015	N	1								1		
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2015		1								1		
Downbound	Domestic	4	688	1680	200.0	35.0	2	9.0	1.5	0.5	210	2015	N	2								2		
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	4				4						
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2015	N	7				7						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2015	N	2				2						
Downbound	Domestic	5	1914	3390	297.0	54.0	9	9.6	1.5	7.5	120	2015		1						1				
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2015	N	3				3						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2015	N	4				4						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2015		9				9						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2015		3				3						
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2015	N	1				1						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2015		1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	160	2015	N	1				1						
Downbound	Domestic	4	823	1542	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	1				1						
Downbound	Domestic	3	000132	443	110.0	32.0	2	10.3	8.6	-6.6	456	2015		2		2								
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2015	N	2								2		
Downbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2015	N	1								1		
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2015	N	9				9						
Downbound	Domestic	4	676	1725	195.0	35.0	8	10.0	1.9	6.1	200	2015	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2015	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2015	N	1				1						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2015	N	2				2						
Downbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2015	N	4				4						
Downbound	Domestic	5	1619	4000	297.5	54.0	8	11.0	2.0	6.0	160	2015	N	2						2				
Downbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	183	2015	N	2				2						
Downbound	Domestic	5	2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2015		2						2				
Downbound	Domestic	4	000764	1560	200.0	35.0	11	9.0	3.0	8.0	9999	2015	N	1				1						
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2015	N	1				1						
Downbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2015		74		74								
Downbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2015	N	8								8		
Downbound	Domestic	4	764	1422	200.0	35.0	2	8.0	1.6	0.4	165	2015	N	5								5		
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	148	2015	N	1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2015	N	1				1						
Downbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2015	N	2				2						
Downbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2015	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	1869	2015	N	1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2015	N	2						2				
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2015	N	1				1						
Downbound	Domestic	4	000687	1535	200.0	35.0	2	9.0	1.5	0.5	217	2015	N	1								1		
Downbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.8	0.2	225	2015	N	5								5		
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2015		1								1		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	11.0	1.8	0.2	120	2015		1								1		
Downbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2015	N	3								3		
Downbound	Domestic	3	94	999999	98.2	34.0	7	7.0	7.0	0.0	300	2015	N	1		1								
Downbound	Domestic	4	000745	1648	195.0	35.0	2	12.0	1.5	0.5	186	2015	N	1								1		
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2015	N	1				1						
Downbound	Domestic	5	716	1450	195.0	35.0	9	9.0	1.5	7.5	168	2015	N	2						2				
Downbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2015	N	2				2						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2015	N	1				1						
Downbound	Domestic	5	1660	3400	297.6	54.1	9	9.0	2.0	7.0	180	2015		1						1				
Downbound	Domestic	4	000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2015	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.1	0.9	170	2015	N	1								1		
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	154	2015	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	220	2015	N	1								1		
Downbound	Domestic	3	000466	686	140.0	38.0	8	11.0	8.0	0.0	490	2015	N	1		1								
Downbound	Domestic	4	000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2015	N	2				2						
Downbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.5	8.5	165	2015	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2015	N	10				10						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	1				1						
Downbound	Domestic	4	000764	1640	200.0	35.0	2	9.0	1.5	0.5	160	2015	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2015		2				2						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2015	N	4				4						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2015	N	1				1						
Downbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2015		2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	2				2						
Downbound	Domestic	4	000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2015		1				1						
Downbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	217	2015	N	1				1						
Downbound	Domestic	4	802	1481	195.0	35.0	2	11.0	1.8	0.2	250	2015		1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	195	2015	N	1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2015	N	2				2						
Downbound	Domestic	4	000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2015	N	1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2015	N	1				1						
Downbound	Domestic	4	764	1647	200.0	35.0	9	9.0	1.5	7.5	165	2015	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2015	N	2				2						
Downbound	Domestic	4	000764	1858	200.0	35.0	8	10.0	1.6	6.4	191	2015	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	194	2015	N	1				1						
Downbound	Domestic	4	000823	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	1				1						
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2015		1						1				
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2015	N	1				1						
Downbound	Domestic	4	000764	2400	200.0	35.0	3	10.0	2.5	0.5	9999	2015	N	1								1		
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2015		1		1								
Downbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2015	N	1								1		
Downbound	Domestic	4	687	1724	195.0	35.0	2	10.0	1.5	0.5	206	2015	N	2								2		
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2015		1		1								
Downbound	Domestic	4	000764	1637	200.0	35.0	2	9.0	1.7	0.3	199	2015		1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	255	2015	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2015	N	15				15						
Downbound	Domestic	4	573	1500	195.0	35.0	6	10.0	2.0	4.0	110	2015		1				1						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2015	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	13	13.0	1.9	11.1	206	2015		1				1						
Downbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2015	N	1				1						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2015	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2015	N	1				1						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2015	N	3								3		
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2015	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2015	N	3								3		
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2015	N	4								4		
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2015		5								5		
Downbound	Domestic	4	000823	1534	200.0	35.0	2	9.0	1.7	0.3	235	2015	N	2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	230	2015	N	1								1		
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.6	0.4	155	2015	N	1								1		
Downbound	Domestic	4	000823	2235	200.0	35.0	2	12.0	1.6	0.4	230	2015	N	1								1		
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	5				5						
Downbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2015	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.7	9.3	215	2015	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	12	10.0	1.5	10.5	215	2015	N	1				1						
Downbound	Domestic	4	770	1889	200.0	35.0	8	10.0	1.5	6.5	149	2015	N	2				2						
Downbound	Domestic	4	682	1550	195.0	35.0	8	9.0	2.0	6.0	192	2015	N	1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2015	N	1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.5	0.5	225	2015	N	1								1		
Downbound	Domestic	4	823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2015	N	2								2		
Downbound	Domestic	4	764	1535	200.0	35.0	2	9.0	1.8	0.2	225	2015	N	1								1		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2015	N	2								2		
Downbound	Domestic	3	000102	342	110.0	32.0	2	10.3	8.6	-6.6	400	2015	N	1		1								
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2015	N	5				5						
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	3				3						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	11.0	2.0	7.0	165	2015	N	1				1						
Downbound	Domestic	4	823	2161	200.0	35.0	8	12.0	1.8	6.2	224	2015	N	1				1						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2015	N	7				7						
Downbound	Domestic	4	000764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2015	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2015		2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	186	2015	N	4				4						
Downbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2015	N	1				1						
Downbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2015	N	1				1						
Downbound	Domestic	4	000764	1633	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	1								1		
Downbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2015	N	2								2		
Downbound	Domestic	4	000764	1766	200.0	35.0	2	9.6	1.3	0.7	150	2015	N	1								1		
Downbound	Domestic	4	922	2295	200.0	35.0	2	12.0	1.5	0.5	190	2015	N	1								1		
Downbound	Domestic	4	000764	1504	200.0	35.0	2	10.0	1.9	0.1	206	2015		1								1		
Downbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2015		1				1						
Downbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2015	N	1				1						
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	1				1						
Downbound	Domestic	5	834	2502	147.6	54.0	9	9.5	1.5	7.5	185	2015		2						2				
Downbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2015	N	2				2						
Downbound	Domestic	4	764	1546	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	1				1						
Downbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.5	6.5	217	2015	N	1				1						
Downbound	Domestic	3	000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2015		21		21								
Downbound	Domestic	4	000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2015	N	11								11		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2015	N	4								4		
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	115	2015	N	2				2						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2015	N	5				5						
Downbound	Domestic	4	823	1535	200.0	35.0	9	9.0	1.7	7.3	260	2015	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2015	N	6				6						
Downbound	Domestic	4	000764	2651	200.0	35.0	8	9.0	1.6	6.4	206	2015		1				1						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2015	N	1				1						
Downbound	Domestic	4	764	2073	200.0	35.0	8	11.6	1.6	6.4	250	2015	N	1				1						
Downbound	Domestic	5	001619	5666	297.0	54.0	9	10.0	0.6	8.4	280	2015		1						1				
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	209	2015	N	1				1						
Downbound	Domestic	4	687	1501	195.0	35.0	10	10.0	1.5	8.5	186	2015	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2015	N	1				1						
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2015	N	9								9		
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2015	N	5								5		
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	214	2015	N	1								1		
Downbound	Domestic	4	000764	1616	200.0	35.0	2	9.0	1.6	0.4	205	2015	N	2								2		
Downbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2015	N	4				4						
Downbound	Domestic	4	000782	1990	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2015	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2015	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2015	N	1				1						
Downbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2015	N	2				2						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	1				1						
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2015	N	6								6		
Downbound	Domestic	5	001619	3360	297.0	54.0	1	10.0	0.6	0.4	280	2015		1										1
Downbound	Domestic	4	823	1751	200.0	35.0	2	10.0	1.7	0.3	190	2015	N	1								1		
Downbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2015	N	1		1								
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2015	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	4				4						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2015	N	2				2						
Downbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2015	N	2				2						
Downbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2015	N	3				3						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2015	N	2				2						
Downbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2015	N	4				4						
Downbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2015	N	4				4						
Downbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2015	N	2				2						
Downbound	Domestic	4	823	2077	200.0	35.0	2	12.0	1.5	0.5	215	2015	N	2								2		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	9.0	1.9	0.1	206	2015		2								2		
Downbound	Domestic	4	000764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2015	N	1				1						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2015		1				1						
Downbound	Domestic	5	001918	3100	297.5	54.0	10	10.3	2.0	8.0	193	2015		1						1				
Downbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2015	N	9				9						
Downbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2015	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2015	N	3				3						
Downbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2015	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2015	N	5						5				
Downbound	Domestic	4	687	1505	195.0	35.0	8	9.0	1.8	6.2	200	2015	N	2				2						
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2015		14		14								
Downbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2015		169		169								
Downbound	Domestic	4	687	1605	195.0	35.0	1	9.5	0.5	0.5	146	2015	N	1								1		
Downbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2015	N	1								1		
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	215	2015	N	1								1		
Downbound	Domestic	4	000705	1618	200.0	35.0	2	9.0	1.6	0.4	210	2015	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	12.0	1.8	0.2	206	2015		1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2015	N	10				10						
Downbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2015	N	2				2						
Downbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	205	2015	N	1				1						
Downbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2015	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2015	N	3				3						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2015	N	14				14						
Downbound	Domestic	5	001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2015		4						4				
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2015	N	1				1						
Downbound	Domestic	4	922	2295	200.0	35.0	8	12.0	1.5	6.5	190	2015	N	1				1						
Downbound	Domestic	4	764	2500	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	1								1		
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2015	N	3				3						
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2015	N	4				4						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2015		6				6						
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2015	N	6				6						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2015	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2015	N	4				4						

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
								An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.						OK			Loaded				Unloaded			
												Total Trips =		84400			Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		4 000823	2469	200.0	35.0	8	13.0	2.0	6.0	190	2015	N	1				1						
Downbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	215	2015	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	8	12.0	1.5	6.5	215	2015	N	1				1						
Downbound	Domestic		4 000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2015	N	1								1		
Downbound	Domestic		4 764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2015	N	3								3		
Downbound	Domestic		4 000764	2474	200.0	35.0	2	12.9	1.6	0.4	205	2015	N	1								1		
Downbound	Domestic		4 000802	2406	105.0	35.0	2	10.0	2.0	0.0	9999	2015	N	1								1		
Downbound	Domestic		4 705	1893	200.0	35.0	2	10.0	1.4	0.6	204	2015	N	1								1		
Downbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	26				26						
Downbound	Domestic		4 000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2015	N	2				2						
Downbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2015		19				19						
Downbound	Domestic		4 745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2015		8				8						
Downbound	Domestic		4 764	1648	200.0	35.0	11	10.0	1.5	9.5	186	2015	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2015	N	2				2						
Downbound	Domestic		4 764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2015	N	4				4						
Downbound	Domestic		4 000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2015	N	2				2						
Downbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2015	N	2				2						
Downbound	Domestic		4 000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2015	N	1				1						
Downbound	Domestic		4 705	1646	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	1				1						
Downbound	Domestic		4 764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2015	N	2								2		
Downbound	Domestic		4 000764	2292	200.0	35.0	3	10.0	1.7	1.3	160	2015	N	2								2		
Downbound	Domestic		4 000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2015	N	3								3		
Downbound	Domestic		3 199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2015		25		25								
Downbound	Domestic		4 000764	1568	200.0	35.0	2	9.0	1.6	0.4	204	2015	N	2								2		
Downbound	Domestic		4 000764	1800	200.0	35.0	2	9.0	2.0	0.0	130	2015	N	1								1		
Downbound	Domestic		4 687	1501	195.0	35.0	2	12.0	1.5	0.5	186	2015	N	1								1		
Downbound	Domestic		4 000764	1728	200.0	35.0	2	9.0	1.6	0.4	206	2015		1								1		
Downbound	Domestic		4 1072	1870	200.0	35.0	9	10.0	1.5	7.5	169	2015	N	1				1						
Downbound	Domestic		4 706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	4				4						
Downbound	Domestic		5 1992	2890	180.0	54.0	8	9.0	2.0	6.0	200	2015	N	1						1				
Downbound	Domestic		4 000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2015	N	5				5						
Downbound	Domestic		4 000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2015	N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	5				5						
Downbound	Domestic		5 001623	32000	297.7	54.1	9	9.0	2.0	7.0	180	2015		1						1				
Downbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	194	2015	N	1				1						
Downbound	Domestic		5 1619	4465	297.5	54.0	12	12.0	2.0	10.0	220	2015		1						1				
Downbound	Domestic		4 764	1548	200.0	35.0	2	9.0	1.7	0.3	212	2015	N	4								4		
Downbound	Domestic		4 764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2015	N	6								6		
Downbound	Domestic		5 761	1740	195.0	35.0	2	9.9	1.5	0.5	200	2015	N	1										1
Downbound	Domestic		5 687	1516	195.0	35.0	1	9.0	1.0	0.0	150	2015	N	1										1
Downbound	Domestic		4 705	1893	200.0	35.0	2	10.0	1.4	0.6	205	2015	N	2								2		
Downbound	Domestic		4 000764	2300	200.0	35.0	2	13.0	1.5	0.5	165	2015	N	1								1		
Downbound	Domestic		4 000764	1600	200.0	35.0	2	9.0	1.6	0.4	130	2015	N	3								3		
Downbound	Domestic		4 764	1617	200.0	35.0	2	9.0	1.4	0.6	160	2015	N	1								1		
Downbound	Domestic		3 000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2015		2		2								
Downbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2015	N	6				6						
Downbound	Domestic		4 000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2015	N	3				3						
Downbound	Domestic		4 764	1956	200.0	35.0	6	9.0	2.0	4.0	130	2015	N	2				2						
Downbound	Domestic		4 564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2015	N	1				1						
Downbound	Domestic		4 000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2015	N	1				1						
Downbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2015	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2015	N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2015	N	34								34		
Downbound	Domestic		4 705	1774	200.0	35.0	2	10.0	1.6	0.4	170	2015	N	2								2		
Downbound	Domestic		4 000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	2								2		
Downbound	Domestic		4 000764	1539	200.0	35.0	2	9.0	1.7	0.3	225	2015	N	2								2		
Downbound	Domestic		4 000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2015	N	1								1		
Downbound	Domestic		4 000823	2469	200.0	35.0	2	13.0	2.0	0.0	225	2015	N	2								2		
Downbound	Domestic		4 745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2015	N	1								1		
Downbound	Domestic		4 764	1554	200.0	35.0	2	9.0	1.5	0.5	170	2015	N	1								1		
Downbound	Domestic		4 764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	1								1		
Downbound	Domestic		4 000764	1615	200.0	35.0	2	11.0	1.8	0.2	170	2015		1								1		
Downbound	Domestic		4 802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2015	N	1				1						
Downbound	Domestic		4 764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2015	N	3				3						
Downbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2015	N	5				5						
Downbound	Domestic		4 000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2015	N	2				2						
Downbound	Domestic		4 000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2015		1				1						
Downbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2015	N	1				1						
Downbound	Domestic		4 000764	1650	200.0	35.0	11	11.0	1.5	9.5	208	2015	N	1				1						
Downbound	Domestic		4 000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2015	N	5								5		
Downbound	Domestic		4 783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2015	N	1								1		
Downbound	Domestic		4 708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2015	N	6								6		
Downbound	Domestic		5 809	1487	195.0	35.0	2	9.0	1.8	0.2	213	2015	N	2										2
Downbound	Domestic		4 000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2015	N	4				4						
Downbound	Domestic		4 764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	3				3						
Downbound	Domestic		4 000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2015		6				6						
Downbound	Domestic		4 705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2015	N	2				2						
Downbound	Domestic		5 001321	3200	280.4	54.0	9	9.0	2.0	7.0	180	2015		2						2				
Downbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2015	N	2				2						
Downbound	Domestic		4 000745	2090	195.0	35.0	3	12.0	1.8	1.2	170	2015		1								1		
Downbound	Domestic		4 000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2015	N	1				1						
Downbound	Domestic		4 764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2015	N	1				1						
Downbound	Domestic		4 764	1536	200.0	35.0	8	9.0	1.7	6.3	180	2015	N	1				1						
Downbound	Domestic		3 000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2015		20		20								
Downbound	Domestic		4 470	1200	160.0	35.0	2	8.5	1.5	0.5	100	2015		1								1		
Downbound	Domestic		4 000764	2292	200.0	35.0	2	10.0	2.0	0.0	135	2015	N	1								1		
Downbound	Domestic		4 764	1558	200.0	35.0	2	9.0	1.5	0.5	160	2015	N	1								1		
Downbound	Domestic		5 855	1512	195.0	35.0	2	9.4	2.0	0.0	168	2015	N	1										1
Downbound	Domestic		5 773	1475	195.0	35.0	2	9.0	1.3	0.7	165	2015	N	1										1
Downbound	Domestic		5 000750	1705	200.0	35.0	2	10.0	1.5	0.5	140	2015	N	1										1
Downbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2015	N	7				7						
Downbound	Domestic		4 000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2015	N	3				3						
Downbound	Domestic		4 823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2015	N	5				5						
Downbound	Domestic		4 764	1535	200.0	35.0	9	9.0	1.8	7.2	225	2015	N	1				1						
Downbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2015	N	2				2						
Downbound	Domestic		4 933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2015	N	3				3						
Downbound	Domestic		5 750	1490	195.0	35.0	9	9.0	2.0	7.0	170	2015	N	2						2				
Downbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2015	N	2				2						
Downbound	Domestic		4 764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2015	N	1				1						
Downbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2015	N	4				4						
Downbound	Domestic		4 763	2290	195.0	35.0	2	12.0	1.7	0.3	235	2015	N	2								2		
Downbound	Domestic		4 000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2015	N	1								1		
Downbound	Domestic		4 745	1499	195.0	35.0	2	9.0	1.5	0.5	130	2015	N	1								1		
Downbound	Domestic		4 000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2015	N	4								4		
Downbound	Domestic		4 000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2015		2				2						
Downbound	Domestic		4 933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2015	N	2				2						
Downbound	Domestic		4 000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2015	N	6				6						
Downbound	Domestic		4 000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2015	N	4				4						
Downbound	Domestic		4 000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2015	N	1				1						
Downbound	Domestic		4 764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2015	N	1				1						
Downbound	Domestic		4 764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2015	N	5				5						
Downbound	Domestic		4 772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2015	N	1				1						
Downbound	Domestic		4 764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2015	N	3				3						
Downbound	Domestic		4 000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2015	N	1				1						
Downbound	Domestic		5 914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2015		1						1				
Downbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2015	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	1504	200.0	35.0	12	13.0	1.9	10.1	206	2015		1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2015	N	2				2						
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2015	N	7								7		
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2015		9		9								
Downbound	Domestic	4	000764	2131	200.0	35.0	2	11.0	1.9	0.1	206	2015		2								2		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	205	2015	N	1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2015	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2015	N	4				4						
Downbound	Domestic	4	573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2015		24				24						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2015	N	7				7						
Downbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2015	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2015	N	1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2015	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2015		1				1						
Downbound	Domestic	4	000823	2881	200.0	35.0	2	13.0	3.0	-1.0	9999	2015	N	6								6		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	9999	2015	N	1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	170	2015	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	180	2015	N	1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2015	N	4								4		
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2015	N	4				4						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2015	N	4				4						
Downbound	Domestic	5	001637	3390	297.5	54.0	10	11.0	2.0	8.0	160	2015		2						2				
Downbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2015	N	4				4						
Downbound	Domestic	4	823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2015	N	1				1						
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2015	N	1				1						
Downbound	Domestic	4	723	1875	200.0	35.0	7	10.0	1.7	5.3	163	2015	N	1				1						
Downbound	Domestic	5	1891	3100	281.7	54.0	9	9.0	2.0	7.0	180	2015		1						1				
Downbound	Domestic	5	1619	3300	297.5	54.0	10	9.0	2.0	8.0	180	2015		1						1				
Downbound	Domestic	5	000705	2300	200.0	35.0	1	8.0	1.0	0.0	120	2015	N	1										1
Downbound	Domestic	5	000825	1422	195.0	35.0	2	9.0	1.1	0.9	194	2015	N	4										4
Downbound	Domestic	3	34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2015		99		99								
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2015		2								2		
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2015	N	2								2		
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2015	N	6				6						
Downbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2015	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2015	N	2				2						
Downbound	Domestic	4	823	2188	200.0	35.0	10	12.0	1.6	8.4	225	2015	N	1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2015	N	2				2						
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2015	N	1								1		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2015	N	9								9		
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2015		19		19								
Downbound	Domestic	4	823	2077	200.0	35.0	2	10.0	1.5	0.5	215	2015	N	1								1		
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	1.8	0.2	166	2015	N	1										1
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2015	N	1								1		
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2015	N	1								1		
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2015		1								1		
Downbound	Domestic	4	000764	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2015	N	1								1		
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2015	N	1								1		
Downbound	Domestic	4	902	1750	200.0	35.0	8	10.0	1.5	6.5	194	2015	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2015	N	2				2						
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2015	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	13.0	1.5	10.5	208	2015	N	1				1						
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2015	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2015	N	1				1						
Downbound	Domestic	4	578	1531	195.0	35.0	8	9.0	1.6	6.4	140	2015	N	2				2						
Downbound	Domestic	4	705	1640	200.0	35.0	8	9.0	1.5	6.5	190	2015	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2015	N	9								9		
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	130	2015	N	2								2		
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2015	N	2								2		
Downbound	Domestic	4	764	2292	200.0	35.0	2	12.0	1.5	0.5	170	2015	N	1								1		
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.4	0.6	149	2015	N	1								1		
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2015	N	1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2015	N	1				1						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2015	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2015	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2015	N	1				1						
Downbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	230	2015	N	4								4		
Downbound	Domestic	4	000764	2085	200.0	35.0	2	13.0	1.5	0.5	240	2015	N	1								1		
Downbound	Domestic	3	000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2015	N	1		1								
Downbound	Domestic	4	000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	1								1		
Downbound	Domestic	4	000764	1615	200.0	35.0	2	10.0	1.8	0.2	170	2015		1								1		
Downbound	Domestic	5	775	1477	195.0	35.0	2	9.0	1.8	0.2	184	2015	N	1										1
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2015	N	13				13						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2015	N	3				3						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2015	N	7				7						
Downbound	Domestic	4	000609	2190	200.0	35.0	7	12.0	2.0	5.0	260	2015	N	1				1						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2015	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	10	11.0	2.0	8.0	180	2015	N	2						2				
Downbound	Domestic	4	000764	1640	200.0	35.0	7	9.0	1.5	5.5	160	2015	N	1				1						
Downbound	Domestic	4	663	1673	200.0	35.0	8	9.0	1.6	6.4	140	2015	N	1				1						
Downbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2015		21		21								
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2015	N	1								1		
Downbound	Domestic	3	141	999999	111.0	36.0	8	8.0	8.0	0.0	440	2015	N	1		1								
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	189	2015	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.5	0.5	180	2015	N	2								2		
Downbound	Domestic	4	000764	1533	200.0	35.0	8	9.0	1.6	6.4	230	2015	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2015		2				2						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2015	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2015		5				5						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2015		3				3						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2015	N	1				1						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	1				1						
Downbound	Domestic	4	601	1400	195.0	35.0	2	10.0	2.0	0.0	110	2015		26								26		
Downbound	Domestic	4	705	1877	200.0	35.0	2	10.0	1.4	0.6	146	2015	N	1								1		
Downbound	Domestic	4	1072	1870	200.0	35.0	2	10.0	1.5	0.5	169	2015	N	1								1		
Downbound	Domestic	4	764	1518	200.0	35.0	2	9.0	1.8	0.2	205	2015	N	1								1		
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2015	N	7				7						
Downbound	Domestic	5	001754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2015		3						3				
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2015	N	5				5						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2015	N	3				3						
Downbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	13	13.0	1.9	11.1	206	2015		1				1						
Downbound	Domestic	4	823	2289	200.0	35.0	9	12.0	1.6	7.4	240	2015	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2015	N	1				1						
Downbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2015	N	2				2						
Downbound	Domestic	4	000823	2410	200.0	35.0	9	14.0	1.5	7.5	190	2015	N	1				1						
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2015	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2015	N	26								26		
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	1.6	0.4	220	2015	N	1								1		
Downbound	Domestic	4	823	1641	200.0	35.0	2	12.0	1.4	0.6	200	2015	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	9999	2015		1								1		
Downbound	Domestic	4	000705	1619	200.0	35.0	8	9.0	1.6	6.4	160	2015	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	234	2015	N	1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2015	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	1				1						
Downbound	Domestic	4	823	2077	200.0	35.0	12	12.0	1.5	10.5	215	2015	N	1				1						
Downbound	Domestic	4	862	1725	195.0	35.0	8	10.0	1.5	6.5	192	2015	N	1				1						
Downbound	Domestic	4	000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2015	N	1				1						
Downbound	Domestic	5	001623	3200	297.7	54.1	9	9.0	2.0	7.0	180	2015		4						4				
Downbound	Domestic	4	000745	1507	195.0	35.0	7	9.0	1.6	5.4	139	2015	N	1				1						
Downbound	Domestic	4	000764	1910	200.0	35.0	10	13.0	3.0	7.0	210	2015	N	1				1						
Downbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	186	2015	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2015	N	4								4		
Downbound	Domestic	4	000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2015	N	1								1		
Downbound	Domestic	4	564	1619	200.0	35.0	2	9.0	1.6	0.4	160	2015	N	1								1		
Downbound	Domestic	5	000735	1511	200.0	35.0	2	9.2	2.0	0.0	179	2015	N	1										1
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2015	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2015	N	5				5						
Downbound	Domestic	4	000764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2015	N	1				1						
Downbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2015	N	2				2						
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2015	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	9999	2015	N	1				1						
Downbound	Domestic	5	2840	2800	298.0	54.0	8	8.6	4.0	4.0	260	2015		1						1				
Downbound	Domestic	4	727	1768	200.0	35.0	7	10.0	1.6	5.4	149	2015	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2015	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	250	2015	N	2								2		
Downbound	Domestic	4	823	2750	200.0	35.0	2	14.0	1.5	0.5	215	2015	N	1								1		
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2015	N	4				4						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2015	N	5				5						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2015	N	10				10						
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	17				17						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2015	N	2				2						
Downbound	Domestic	4	802	1660	200.0	35.0	9	9.0	2.0	7.0	139	2015	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2015	N	9				9						
Downbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2015	N	2				2						
Downbound	Domestic	4	764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2015	N	1				1						
Downbound	Domestic	5	1891	3100	281.7	54.0	11	9.0	2.0	9.0	180	2015		3						3				
Downbound	Domestic	4	000764	1600	200.0	35.0	4	9.0	1.6	2.4	130	2015	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	206	2015		1				1						
Downbound	Domestic	4	799	1887	200.0	35.0	2	10.0	1.4	0.6	149	2015	N	1								1		
Downbound	Domestic	4	764	1744	200.0	35.0	2	10.0	1.7	0.3	209	2015	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2015	N	7				7						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2015	N	2				2						
Downbound	Domestic	4	764	1625	200.0	35.0	8	9.0	1.7	6.3	220	2015	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	147	2015	N	1				1						
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2015		5						5				
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2015	N	2				2						
Downbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2015		267								267		
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2015	N	2								2		
Downbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.6	0.4	211	2015	N	1								1		
Downbound	Domestic	5	001619	3142	297.0	54.0	1	10.0	0.6	0.4	280	2015		1										1
Downbound	Domestic	4	705	1578	200.0	35.0	2	9.0	1.5	0.5	180	2015	N	1								1		
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2015	N	3				3						
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2015	N	7				7						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2015	N	2				2						
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2015	N	4				4						
Downbound	Domestic	4	000764	1610	200.0	35.0	12	9.0	3.0	9.0	9999	2015	N	1				1						
Downbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2015	N	2				2						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2015	N	2				2						
Downbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2015	N	1				1						
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2015	N	16								16		
Downbound	Domestic	4	000745	2235	195.0	13.0	2	15.0	3.0	-1.0	9999	2015	N	1								1		
Downbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2015	N	1				1						
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2015		2						2				
Downbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2015	N	4						4				
Downbound	Domestic	3	101	999999	77.7	32.1	7	7.0	5.5	1.5	300	2015		1		1								
Downbound	Domestic	4	000823	2161	200.0	35.0	2	12.0	1.8	0.2	220	2015	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2015	N	15				15						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2015	N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2015	N	4				4						
Downbound	Domestic	4	764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	2				2						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2015	N	7				7						
Downbound	Domestic	4	000764	1619	200.0	35.0	9	10.0	3.0	6.0	206	2015		3				3						
Downbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2015		3				3						
Downbound	Domestic	4	764	1533	200.0	35.0	8	9.0	1.7	6.3	170	2015	N	2				2						
Downbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2015	N	1				1						
Downbound	Domestic	4	000764	2073	200.0	35.0	10	13.0	1.6	8.4	230	2015	N	1				1						
Downbound	Domestic	5	814	2442	148.0	54.0	9	9.0	2.0	7.0	180	2015		1						1				
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2015	N	5								5		
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2015		3								3		
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	208	2015	N	1								1		
Downbound	Domestic	4	000823	2792	200.0	35.0	2	12.0	1.7	0.3	250	2015	N	1								1		
Downbound	Domestic	4	764	1625	200.0	35.0	2	9.0	1.7	0.3	220	2015	N	1								1		
Downbound	Domestic	4	000764	1615	200.0	35.0	2	12.0	1.8	0.2	170	2015		1								1		
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2015	N	10				10						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2015	N	1				1						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	2				2						
Downbound	Domestic	4	705	1880	200.0	35.0	9	10.0	1.4	7.6	140	2015	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	12.0	1.5	7.5	208	2015	N	1				1						
Downbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2015	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	11	13.0	1.5	9.5	208	2015	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2015	N	2				2						
Downbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2015	N	1				1						
Downbound	Domestic	4	000764	1705	195.0	35.0	2	10.0	1.5	0.5	140	2015	N	1								1		
Downbound	Domestic	4	000764	1875	200.0	35.0	2	10.0	1.7	0.3	160	2015	N	1								1		
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2015		2		2								
Downbound	Domestic	3	199	999999	150.2	44.2	8	10.8	9.3	-1.3	430	2015		2		2								
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2015	N	3										3
Downbound	Domestic	4	823	2579	200.0	35.0	2	14.0	1.7	0.3	231	2015	N	2								2		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	11.0	1.8	0.2	170	2015		1								1		
Downbound	Domestic	3	000253	999999	110.0	32.0	8	9.0	8.0	0.0	420	2015		1		1								
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	9999	2015	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2015	N	7				7						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2015	N	4				4						
Downbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2015	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	225	2015	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2015	N	1				1						
Downbound	Domestic	4	000764	1854	200.0	35.0	2	10.0	1.6	0.4	130	2015	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	3	10.0	3.0	0.0	9999	2015	N	1								1		
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2015	N	6								6		
Downbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.7	0.3	209	2015	N	1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2015	N	11				11						
Downbound	Domestic	4	764	1865	200.0	35.0	11	11.0	1.5	9.5	208	2015	N	1				1						
Downbound	Domestic	5	1619	3200	297.5	54.0	10	9.0	2.0	8.0	180	2015		1						1				
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	175	2015	N	1				1						
Downbound	Domestic	4	000745	745	195.0	35.0	8	10.0	3.0	5.0	9999	2015	N	1				1						
Downbound	Domestic	4	000705	1617	200.0	35.0	8	9.0	1.6	6.4	205	2015	N	1				1						
Downbound	Domestic	4	000764	1700	200.0	35.0	7	9.0	1.9	5.1	206	2015		1				1						
Downbound	Domestic	5	001619	3517	297.0	54.0	9	10.0	0.6	8.4	280	2015		1						1				
Downbound	Domestic	5	795	1475	195.0	35.0	2	9.0	1.8	0.2	178	2015	N	1										1

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	2115	200.0	35.0	2	9.0	1.5	0.5	135	2015	N	1								1		
Downbound	Domestic	4	000764	1935	200.0	35.0	2	11.0	1.8	0.2	195	2015	N	3								3		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	13.0	1.8	0.2	190	2015	N	4								4		
Downbound	Domestic	4	823	1542	200.0	35.0	2	9.0	1.6	0.4	225	2015	N	1								1		
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2015	N	15				15						
Downbound	Domestic	4	745	1499	195.0	35.0	8	9.0	1.5	6.5	130	2015	N	1				1						
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2015	N	23								23		
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2015	N	9				9						
Downbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2015	N	2				2						
Downbound	Domestic	5	2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2015		2						2				
Downbound	Domestic	4	000687	1462	195.0	35.0	8	9.0	1.9	6.1	205	2015	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2015	N	1				1						
Downbound	Domestic	4	000705	1650	200.0	35.0	11	10.0	1.5	9.5	208	2015	N	1				1						
Downbound	Domestic	3	429	999999	140.0	38.0	9	9.0	8.6	0.4	423	2015	N	2		2								
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2015	N	3								3		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2015		2										2
Downbound	Domestic	4	000823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2015	N	1								1		
Downbound	Domestic	4	000764	1964	200.0	35.0	7	9.0	2.0	5.0	196	2015	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2015	N	2				2						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2015	N	5				5						
Downbound	Domestic	4	764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2015	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2015		1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	155	2015	N	1				1						
Downbound	Domestic	4	823	2077	200.0	35.0	11	12.0	1.5	9.5	215	2015	N	1				1						
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2015	N	2								2		
Downbound	Domestic	4	000764	1657	200.0	35.0	3	9.0	3.0	0.0	9999	2015	N	1								1		
Downbound	Domestic	4	000764	1533	200.0	35.0	2	9.0	1.6	0.4	230	2015	N	1								1		
Downbound	Domestic	4	000764	1648	200.0	35.0	2	13.0	2.0	0.0	208	2015	N	1								1		
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2015	N	2								2		
Downbound	Domestic	4	000745	1648	195.0	35.0	11	12.0	1.5	9.5	186	2015	N	2				2						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2015		6				6						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2015	N	1				1						
Downbound	Domestic	4	823	2077	200.0	35.0	11	11.0	1.5	9.5	215	2015	N	1				1						
Downbound	Domestic	4	000764	1637	200.0	35.0	5	9.0	1.7	3.3	199	2015		0				0						
Downbound	Domestic	3	185	999999	56.0	28.0	7	7.0	6.0	1.0	320	2015		5		5								
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.7	0.3	215	2015	N	1								1		
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	250	2015	N	2								2		
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2015		1		1								
Downbound	Domestic	4	000764	1504	200.0	35.0	12	11.0	1.9	10.1	206	2015		1				1						
Downbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2015	N	5				5						
Downbound	Domestic	4	823	1643	200.0	35.0	10	11.0	1.5	8.5	9999	2015	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2015	N	1				1						
Downbound	Domestic	4	000764	1765	200.0	35.0	12	11.0	2.0	10.0	165	2015	N	1				1						
Downbound	Domestic	4	964	2098	200.0	35.0	9	11.0	1.5	7.5	218	2015	N	1				1						
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2015	N	3				3						
Downbound	Domestic	4	000764	1910	200.0	35.0	7	12.0	2.0	5.0	210	2015		1				1						
Downbound	Domestic	4	000764	1625	200.0	35.0	13	9.0	3.0	10.0	9999	2015	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2015	N	21								21		
Downbound	Domestic	4	000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2015	N	7								7		
Downbound	Domestic	4	823	2078	200.0	35.0	2	11.0	1.6	0.4	250	2015		1								1		
Downbound	Domestic	3	209	999999	100.0	30.0	8	8.0	8.0	0.0	460	2015		1		1								
Downbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	255	2015	N	1								1		
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2015	N	1								1		
Downbound	Domestic	3	000318	609	147.0	38.0	8	9.0	8.0	0.0	470	2015	N	1		1								
Downbound	Domestic	4	000764	1764	200.0	35.0	2	10.5	1.5	0.5	130	2015	N	1								1		
Downbound	Domestic	4	000764	2131	200.0	35.0	2	13.0	1.9	0.1	206	2015		1								1		
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2015	N	2				2						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2015	N	6				6						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2015	N	5				5						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2015	N	3				3						
Downbound	Domestic	4	663	1892	200.0	35.0	9	10.0	1.4	7.6	140	2015	N	1				1						
Downbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2015		1				1						
Downbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2015	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	7	10.0	1.7	5.3	163	2015	N	1				1						
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2015		1						1				
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2015	N	30								30		
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2015		15		15								
Downbound	Domestic	4	000823	1530	200.0	35.0	2	9.0	1.6	0.4	180	2015	N	1								1		
Downbound	Domestic	3	108	999999	75.0	24.0	9	8.6	8.0	1.0	425	2015		9		9								
Downbound	Domestic	4	764	2098	200.0	35.0	2	11.0	1.5	0.5	218	2015	N	3								3		
Downbound	Domestic	3	000103	344	110.0	32.0	2	10.0	8.6	-6.6	360	2015	N	1		1								
Downbound	Domestic	4	190	541	110.0	30.0	7	7.0	1.0	6.0	70	2015	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	16				16						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2015	N	1				1						
Downbound	Domestic	4	471	1510	195.0	35.0	8	9.0	1.6	6.4	119	2015	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2015	N	1				1						
Downbound	Domestic	4	705	1684	250.0	54.0	10	11.0	1.5	8.5	200	2015	N	5				5						
Downbound	Domestic	4	764	2000	200.0	35.0	11	12.0	1.5	9.5	9999	2015	N	1				1						
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2015		1						1				
Downbound	Domestic	4	000764	1539	200.0	35.0	9	9.0	1.7	7.3	225	2015	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	120	2015		1				1						
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2015		21		21								
Downbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2015	N	2								2		
Downbound	Domestic	4	705	1556	200.0	35.0	2	9.0	1.5	0.5	223	2015	N	1								1		
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2015	N	2								2		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2015	N	4								4		
Downbound	Domestic	3	000237	453	96.0	34.0	2	11.0	9.0	-7.0	526	2015	N	1		1								
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2015	N	9				9						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2015	N	2				2						
Downbound	Domestic	4	764	1652	200.0	35.0	9	10.0	1.4	7.6	210	2015	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2015	N	4				4						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	11.0	1.5	9.5	215	2015	N	2				2						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	214	2015	N	4				4						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2015	N	1				1						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2015	N	1				1						
Downbound	Domestic	4	823	2187	200.0	35.0	8	12.0	1.7	6.3	240	2015	N	1				1						
Downbound	Domestic	4	823	2078	200.0	35.0	8	11.0	1.6	6.4	250	2015	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2015	N	2				2						
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2015	N	10								10		
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2015	N	3								3		
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2015	N	9										9
Downbound	Domestic	4	000573	1500	195.0	35.0	3	10.0	3.0	0.0	9999	2015		20								20		
Downbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2015	N	2								2		
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2015		5		5								
Downbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	160	2015	N	2								2		
Downbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2015		2								2		
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2015		2		2								
Downbound	Domestic	4	922	2295	200.0	35.0	9	12.0	1.5	7.5	190	2015	N	1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2015	N	6				6						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2015	N	8				8						
Downbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2015	N	3				3						
Downbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2015	N	1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2015	N	4				4						
Downbound	Domestic	4	000764	1745	200.0	35.0	8	10.0	1.7	6.3	204	2015	N	1				1						
Downbound	Domestic	4	000764	1965	200.0	35.0	9	13.0	1.6	7.4	240	2015	N	1				1						
Downbound	Domestic	5	1721	3300	297.6	54.1	10	10.0	2.0	8.0	180	2015		1						1				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2015	N	2						2				
Downbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2015	N	1				1						
Downbound	Domestic	5	000705	1650	200.0	35.0	2	9.6	2.0	0.0	189	2015	N	1										1
Downbound	Domestic	4	000823	1750	200.0	35.0	2	10.0	1.7	0.3	213	2015	N	1								1		
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2015	N	4				4						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2015	N	9				9						
Downbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2015	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	9999	2015	N	1				1						
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2015	N	2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	12.0	1.7	1.3	160	2015	N	3								3		
Downbound	Domestic	4	000823	2880	200.0	35.0	2	12.0	3.0	-1.0	9999	2015	N	3								3		
Downbound	Domestic	4	000823	1600	200.0	35.0	2	9.0	1.5	0.5	9999	2015	N	1								1		
Downbound	Domestic	4	000705	1659	200.0	35.0	2	9.0	1.4	0.6	205	2015	N	1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.7	0.3	199	2015		1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2015	N	3				3						
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2015		1						1				
Downbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2015	N	2				2						
Downbound	Domestic	5	1819	3100	281.7	54.0	11	9.0	2.0	9.0	180	2015		2						2				
Downbound	Domestic	4	000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2015	N	1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2015	N	1								1		
Downbound	Domestic	4	000802	2400	105.0	35.0	2	10.0	2.0	0.0	9999	2015	N	2								2		
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2015	N	1								1		
Downbound	Domestic	4	000745	1600	195.0	35.0	2	11.0	1.5	0.5	160	2015	N	1								1		
Downbound	Domestic	4	1056	2826	240.0	50.0	2	9.0	2.0	0.0	110	2015		1								1		
Downbound	Domestic	4	000705	1650	200.0	35.0	2	12.0	1.5	0.5	208	2015	N	1								1		
Downbound	Domestic	4	000764	1935	200.0	35.0	2	12.0	1.8	0.2	195	2015	N	2								2		
Downbound	Domestic	4	000745	2235	200.0	35.0	2	15.0	3.0	-1.0	9999	2015	N	1								1		
Downbound	Domestic	4	705	1552	200.0	35.0	2	9.0	1.5	0.5	223	2015	N	2								2		
Downbound	Domestic	4	000764	1965	200.0	35.0	2	13.0	1.6	0.4	240	2015	N	1								1		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	180	2015	N	1								1		
Downbound	Domestic	5	001754	5262	297.5	54.0	3	12.0	2.0	1.0	180	2015	N	1										1
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2015	N	7				7						
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2015	N	8								8		
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2015	N	1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2015	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2015		2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	12.0	1.5	7.5	208	2015	N	1				1						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2015	N	2				2						
Downbound	Domestic	4	823	2469	200.0	35.0	10	14.0	1.6	8.4	250	2015	N	1				1						
Downbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2015	N	1				1						
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2015	N	14								14		
Downbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2015	N	1								1		
Downbound	Domestic	4	000764	2350	200.0	35.0	3	10.0	3.0	0.0	9999	2015	N	2								2		
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2015	N	1				1						
Downbound	Domestic	4	000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2015	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2015	N	5				5						
Downbound	Domestic	4	823	2579	200.0	35.0	8	14.0	1.7	6.3	231	2015	N	3				3						
Downbound	Domestic	5	1619	3300	297.5	54.0	12	9.0	2.0	10.0	180	2015		1						1				
Downbound	Domestic	4	823	2743	200.0	35.0	2	14.0	1.5	0.5	241	2015	N	2								2		
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.7	0.3	250	2015	N	2								2		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.6	0.4	210	2015		1								1		
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2015	N	2				2						
Downbound	Domestic	5	766	1500	200.0	35.0	9	9.0	2.0	7.0	170	2015	N	4						4				
Downbound	Domestic	4	706	1507	200.0	35.0	9	9.0	1.9	7.1	215	2015	N	1				1						
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2015	N	4				4						
Downbound	Domestic	4	000764	2085	200.0	35.0	9	13.0	1.5	7.5	240	2015	N	1				1						
Downbound	Domestic	5	2688	2800	298.0	54.0	9	8.6	4.0	5.0	260	2015		2						2				
Downbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2015	N	1				1						
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2015	N	15										15
Downbound	Domestic	5	847	1450	195.0	35.0	2	9.0	1.1	0.9	170	2015	N	2										2
Downbound	Domestic	3	163	999999	116.0	31.0	9	9.0	7.6	1.4	320	2015		3		3								
Downbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2015	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2015		17								17		
Downbound	Domestic	4	764	1546	200.0	35.0	2	9.0	1.5	0.5	170	2015	N	1								1		
Upbound	Domestic	4	000764	2192	200.0	35.0	8	10.0	2.0	6.0	9999	2016		1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2016		11			11							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2016	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2016	N	6			6							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2016	N	9			9							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	160	2016	N	1			1							
Upbound	Domestic	4	000705	2406	200.0	35.0	9	13.0	1.6	7.4	120	2016	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2016	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2016	N	1			1							
Upbound	Domestic	4	000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2016	N	5			5							
Upbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	3	11.0	1.7	1.3	224	2016	N	1							1			
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	1			1							
Upbound	Domestic	4	000823	2400	200.0	35.0	7	12.0	2.0	5.0	9999	2016	N	1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2016	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	13	9.0	3.0	10.0	9999	2016	N	1			1							
Upbound	Domestic	5	2700	2500	281.0	50.0	3	9.0	2.5	0.5	230	2016		4									4	
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2016		5		5								
Upbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	191	2016	N	4							4			
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2016	N	1							1			
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2016		1			1							
Upbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2016	N	5			5							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2016	N	3			3							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2016	N	5			5							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2016	N	3			3							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2016	N	5			5							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2016	N	4			4							
Upbound	Domestic	4	000764	1600	200.0	35.0	7	9.0	1.6	5.4	165	2016	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2016	N	6			6							
Upbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2016	N	3			3							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2016	N	4			4							
Upbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2016		3					3					
Upbound	Domestic	5	687	1516	195.0	35.0	8	9.0	1.0	7.0	150	2016	N	1					1					
Upbound	Domestic	4	823	2733	200.0	35.0	8	14.0	1.5	6.5	241	2016	N	1			1							
Upbound	Domestic	4	764	1528	200.0	35.0	6	9.0	1.7	4.3	163	2016	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2016	N	4			4							
Upbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2016		1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2016	N	1			1							
Upbound	Domestic	3	000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2016		3		3								
Upbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2016	N	1							1			
Upbound	Domestic	4	688	1542	200.0	35.0	2	9.0	1.5	0.5	210	2016	N	1							1			
Upbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2016	N	1							1			
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2016	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2016	N	7			7							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	3.0	5.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2016	N	8			8							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2016	N	10			10							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2016	N	11			11							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2016	N	10			10							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	3.0	7.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	4			4							
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2016	N	6					6					
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2016	N	7			7							
Upbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2016	N	1			1							
Upbound	Domestic	4	772	2197	200.0	35.0	7	12.0	1.6	5.4	130	2016	N	1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2016	N	2			2							
Upbound	Domestic	4	000823	1838	200.0	35.0	8	10.0	1.7	6.3	191	2016	N	1			1							
Upbound	Domestic	4	823	1825	200.0	35.0	8	9.0	1.7	6.3	210	2016	N	1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2016	N	3			3							
Upbound	Domestic	4	000706	1569	200.0	35.0	9	9.0	1.6	7.4	205	2016	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2016	N	2			2							
Upbound	Domestic	5	001623	3200	297.7	54.1	2	9.0	2.0	0.0	180	2016		15									15	
Upbound	Domestic	4	823	2077	200.0	35.0	2	12.0	1.5	0.5	215	2016	N	1							1			
Upbound	Domestic	4	771	1541	200.0	35.0	2	9.0	1.6	0.4	212	2016	N	1							1			
Upbound	Domestic	4	000764	2651	200.0	35.0	8	9.0	1.6	6.4	206	2016		2			2							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2016		9			9							
Upbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2016		5			5							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2016	N	4			4							
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2016	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	7	9.0	1.6	5.4	139	2016	N	1			1							
Upbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2016	N	3			3							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2016	N	3			3							
Upbound	Domestic	4	000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2016	N	3			3							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2016	N	1			1							
Upbound	Domestic	4	618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2016	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	3.0	6.0	170	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	3	10.0	3.0	0.0	9999	2016	N	1							1			
Upbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2016		2			2							
Upbound	Domestic	4	000823	2161	200.0	35.0	6	12.0	1.8	4.2	9999	2016	N	1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2016	N	1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2016	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	2.0	8.0	170	2016	N	1			1							
Upbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2016	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2016	N	1			1							
Upbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2016	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2016	N	1			1							
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2016		19		19								
Upbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2016		1					1					
Upbound	Domestic	4	000764	2406	200.0	35.0	2	13.0	1.6	0.4	120	2016	N	1							1			
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2016	N	10			10							
Upbound	Domestic	4	000823	2469	200.0	35.0	5	10.0	2.0	3.0	9999	2016	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2016	N	3			3							
Upbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	3			3							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	7			7							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2016	N	4			4							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2016	N	5			5							
Upbound	Domestic	4	000329	1500	140.0	40.0	2	3.0	2.0	0.0	70	2016	N	2							2			
Upbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.5	7.5	250	2016	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2016		2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2016	N	2			2							
Upbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2016	N	1			1							
Upbound	Domestic	5	3084	2874	298.0	54.0	4	8.6	4.0	0.0	260	2016		5									5	
Upbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2016	N	2		2								
Upbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	250	2016	N	1							1			
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2016	N	5			5							
Upbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2016	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2016	N	1			1							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2016	N	13							13			
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2016	N	9			9							
Upbound	Domestic	4	000764	2674	200.0	35.0	6	10.0	2.0	4.0	160	2016	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2016		5			5							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	149	2016	N	1			1							
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2016	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	230	2016	N	1			1							
Upbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2016	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2016	N	3							3			
Upbound	Domestic	4	000764	1857	200.0	35.0	2	10.0	1.5	0.5	160	2016	N	2							2			
Upbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	1.7	1.3	160	2016	N	1							1			
Upbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2016	N	2			2							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2016	N	4			4							
Upbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2016	N	6			6							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2016	N	8			8							
Upbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2016	N	3							3			
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2016	N	9			9							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2016	N	8			8							
Upbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2016	N	2			2							
Upbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2016	N	1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	9	9.0	1.5	7.5	163	2016	N	1			1							
Upbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2016	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	7	10.0	1.7	5.3	140	2016	N	1			1							
Upbound	Domestic	4	000823	2295	200.0	35.0	8	12.0	1.5	6.5	190	2016	N	1			1							
Upbound	Domestic	4	764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2016	N	1			1							
Upbound	Domestic	5	2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2016		4									4	
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2016		5		5								
Upbound	Domestic	5	1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2016		3									3	
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2016		3									3	
Upbound	Domestic	4	687	1501	195.0	35.0	9	10.0	1.5	7.5	186	2016	N	1			1							
Upbound	Domestic	4	745	1915	195.0	35.0	6	11.0	1.7	4.3	224	2016	N	1			1							
Upbound	Domestic	4	000764	1536	200.0	35.0	9	9.0	1.8	7.2	225	2016	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2016	N	5			5							
Upbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2016	N	3			3							
Upbound	Domestic	4	922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2016	N	5			5							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	228	2016	N	2			2							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2016	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	10	13.0	2.0	8.0	208	2016	N	1			1							
Upbound	Domestic	4	000745	1502	195.0	35.0	7	9.0	1.6	5.4	155	2016	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2016	N	1			1							
Upbound	Domestic	5	1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2016		5									5	
Upbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	230	2016	N	2							2			
Upbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2016		1		1								
Upbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2016	N	1							1			
Upbound	Domestic	4	000764	1700	200.0	35.0	7	9.0	1.9	5.1	206	2016		6			6							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2016		4			4							
Upbound	Domestic	4	000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	250	2016	N	6			6							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2016	N	13			13							
Upbound	Domestic	4	745	1714	195.0	35.0	7	9.0	1.6	5.4	210	2016	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	225	2016	N	3			3							
Upbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2016	N	5			5							
Upbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2016	N	1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2016	N	2			2							
Upbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2016	N	2			2							
Upbound	Domestic	4	000764	2005	200.0	35.0	11	10.0	2.0	9.0	9999	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	225	2016	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2016	N	1			1							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	130	2016	N	1							1			
Upbound	Domestic	4	764	1518	200.0	35.0	2	9.0	1.7	0.3	170	2016	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		5 773	1600	195.0	35.0	10	9.5	1.8	8.2	186	2016		1					1					
Upbound	Domestic		4 000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2016		2			2							
Upbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2016	N	4			4							
Upbound	Domestic		4 000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2016	N	2			2							
Upbound	Domestic		4 000823	2200	200.0	35.0	7	12.0	2.0	5.0	213	2016	N	2			2							
Upbound	Domestic		4 676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2016	N	6			6							
Upbound	Domestic		4 000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2016	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	8	12.0	1.5	6.5	208	2016	N	1			1							
Upbound	Domestic		4 000823	2398	200.0	35.0	7	13.0	1.7	5.3	256	2016	N	1			1							
Upbound	Domestic		4 823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2016	N	1			1							
Upbound	Domestic		4 000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2016	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	1.5	5.5	175	2016	N	3			3							
Upbound	Domestic		4 000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2016	N	1			1							
Upbound	Domestic		4 000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2016	N	1			1							
Upbound	Domestic		3 276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2016		7		7								
Upbound	Domestic		5 1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2016		3									3	
Upbound	Domestic		4 000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2016	N	1							1			
Upbound	Domestic		4 764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2016	N	4			4							
Upbound	Domestic		4 000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2016	N	1			1							
Upbound	Domestic		4 823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2016	N	3			3							
Upbound	Domestic		4 764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2016	N	3			3							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	1.4	6.6	230	2016	N	1			1							
Upbound	Domestic		4 745	1495	195.0	35.0	9	9.0	1.7	7.3	225	2016	N	1			1							
Upbound	Domestic		4 922	1669	195.0	35.0	7	9.0	1.5	5.5	206	2016		1			1							
Upbound	Domestic		4 823	2279	200.0	35.0	6	9.0	1.7	4.3	223	2016		1			1							
Upbound	Domestic		4 764	1537	200.0	35.0	9	9.0	1.8	7.2	225	2016	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	9	9.0	1.6	7.4	170	2016	N	2			2							
Upbound	Domestic		3 000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2016		51		51								
Upbound	Domestic		3 199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2016		12		12								
Upbound	Domestic		3 258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2016		3		3								
Upbound	Domestic		4 000764	1648	200.0	35.0	2	13.0	1.5	0.5	208	2016	N	1							1			
Upbound	Domestic		3 209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2016		1		1								
Upbound	Domestic		4 000706	1569	200.0	35.0	2	9.0	1.6	0.4	215	2016	N	1							1			
Upbound	Domestic		4 000764	1504	200.0	35.0	9	11.0	1.9	7.1	206	2016		1			1							
Upbound	Domestic		4 705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	1			1							
Upbound	Domestic		4 000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2016	N	2			2							
Upbound	Domestic		4 000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2016	N	3			3							
Upbound	Domestic		4 000823	2292	200.0	35.0	9	12.0	2.0	7.0	250	2016	N	3			3							
Upbound	Domestic		4 000687	1500	195.0	35.0	8	10.0	3.0	5.0	9999	2016	N	1			1							
Upbound	Domestic		4 000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2016		2			2							
Upbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2016	N	1			1							
Upbound	Domestic		4 823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2016	N	4			4							
Upbound	Domestic		4 705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2016	N	1			1							
Upbound	Domestic		4 823	2304	200.0	35.0	7	12.0	1.7	5.3	190	2016	N	1			1							
Upbound	Domestic		4 000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2016	N	1			1							
Upbound	Domestic		5 834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2016		9									9	
Upbound	Domestic		3 000498	190	115.2	34.0	2	10.0	2.0	0.0	9999	2016		3		3								
Upbound	Domestic		4 927	1549	200.0	35.0	2	9.0	1.5	0.5	120	2016	N	1							1			
Upbound	Domestic		4 000782	1990	200.0	35.0	2	9.0	1.5	0.5	170	2016	N	1							1			
Upbound	Domestic		4 823	1662	200.0	35.0	2	9.0	1.4	0.6	235	2016	N	2							2			
Upbound	Domestic		4 764	1865	200.0	35.0	2	12.0	1.5	0.5	208	2016	N	1							1			
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2016	N	20			20							
Upbound	Domestic		4 000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2016		3			3							
Upbound	Domestic		4 764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2016	N	6			6							
Upbound	Domestic		4 000764	1956	200.0	35.0	6	9.0	2.0	4.0	196	2016	N	4			4							
Upbound	Domestic		4 000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2016	N	2			2							
Upbound	Domestic		5 835	1426	195.0	35.0	11	12.0	3.0	8.0	136	2016		1					1					
Upbound	Domestic		4 000764	2500	200.0	35.0	8	9.0	1.7	6.3	206	2016		1			1							
Upbound	Domestic		4 000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2016	N	1			1							
Upbound	Domestic		4 000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2016	N	2			2							
Upbound	Domestic		4 856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2016	N	2			2							
Upbound	Domestic		4 000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2016	N	1			1							
Upbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2016		1			1							
Upbound	Domestic		5 2431	2500	280.0	50.0	2	9.0	2.5	-0.5	220	2016		3									3	
Upbound	Domestic		3 405	999999	138.0	44.0	9	9.0	8.5	0.5	380	2016	N	2		2								
Upbound	Domestic		4 745	1915	195.0	35.0	2	11.0	1.7	0.3	224	2016	N	1							1			
Upbound	Domestic		4 705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2016	N	2			2							
Upbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2016	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	12	12.0	1.5	10.5	208	2016	N	1			1							
Upbound	Domestic		4 823	1643	200.0	35.0	11	12.0	1.3	9.7	9999	2016	N	1			1							
Upbound	Domestic		4 764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2016	N	2			2							
Upbound	Domestic		3 185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2016		23		23								
Upbound	Domestic		5 2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2016		3									3	
Upbound	Domestic		5 2688	2600	298.0	54.0	4	8.6	4.0	0.0	260	2016		1									1	
Upbound	Domestic		4 745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2016		14			14							
Upbound	Domestic		4 000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2016	N	1			1							
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2016	N	4			4							
Upbound	Domestic		4 000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2016	N	2			2							
Upbound	Domestic		4 764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	1			1							
Upbound	Domestic		4 705	1617	200.0	35.0	8	9.0	1.6	6.4	160	2016	N	1			1							
Upbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2016	N	2			2							
Upbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	9999	2016	N	1			1							
Upbound	Domestic		4 573	1500	195.0	35.0	7	10.0	2.0	5.0	110	2016		1			1							
Upbound	Domestic		4 000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2016	N	1			1							
Upbound	Domestic		3 349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2016		2		2								
Upbound	Domestic		5 001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2016		5									5	
Upbound	Domestic		4 764	1635	200.0	35.0	2	9.0	1.5	0.5	165	2016	N	1							1			
Upbound	Domestic		4 745	2077	195.0	35.0	2	9.0	1.5	0.5	215	2016	N	1							1			
Upbound	Domestic		4 764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2016	N	12			12							
Upbound	Domestic		4 687	1724	195.0	35.0	7	10.0	1.5	5.5	206	2016	N	2			2							
Upbound	Domestic		4 000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2016	N	2			2							
Upbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	170	2016		1			1							
Upbound	Domestic		4 922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2016	N	7			7							
Upbound	Domestic		4 000823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2016	N	1			1							
Upbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2016	N	1			1							
Upbound	Domestic		4 000764	2000	200.0	35.0	9	11.0	2.0	7.0	130	2016	N	4			4							
Upbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2016	N	1			1							
Upbound	Domestic		5 1619	4298	297.5	54.0	2	12.0	2.0	0.0	220	2016		7									7	
Upbound	Domestic		4 000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2016	N	1							1			
Upbound	Domestic		4 705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2016	N	2							2			
Upbound	Domestic		4 000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2016		6			6							
Upbound	Domestic		4 000764	1619	200.0	35.0	9	9.0	1.6	7.4	206	2016		1			1							
Upbound	Domestic		4 000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2016	N	6			6							
Upbound	Domestic		4 764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2016	N	8			8							
Upbound	Domestic		4 000764	1538	200.0	35.0	8	9.0	1.7	6.3	9999	2016	N	2			2							
Upbound	Domestic		4 000764	1650	200.0	35.0	10	12.0	1.5	8.5	208	2016	N	2			2							
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2016	N	3			3							
Upbound	Domestic		4 000764	1615	200.0	35.0	9	10.0	1.8	7.2	170	2016		1			1							
Upbound	Domestic		4 823	1640	200.0	35.0	9	9.0	1.5	7.5	205	2016	N	1			1							
Upbound	Domestic		3 634	999999	145.0	48.0	9	10.0	9.0	0.0	426	2016	N	2		2								
Upbound	Domestic		4 000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2016	N	10			10							
Upbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2016	N	3			3							
Upbound	Domestic		5 847	1450	195.0	35.0	8	9.0	1.1	6.9	170	2016	N	1					1					
Upbound	Domestic		4 764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2016	N	1			1							
Upbound	Domestic		4 000705	1648	200.0	35.0	12	12.0	1.5	10.5	186	2016	N	1			1							
Upbound	Domestic		4 000764	1504	200.0	35.0	11	13.0	1.9	9.1	206	2016		1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2016		1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2016	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	190	2016	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	206	2016	N	1			1							
Upbound	Domestic	5	2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2016		7									7	
Upbound	Domestic	4	182	500	110.0	32.0	2	6.0	1.5	0.5	80	2016	N	1							1			
Upbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2016	N	1							1			
Upbound	Domestic	4	000764	2090	200.0	35.0	7	10.0	1.8	5.2	170	2016		1			1							
Upbound	Domestic	4	922	1669	195.0	35.0	8	9.0	1.5	6.5	206	2016		16			16							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2016		2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2016		5			5							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2016	N	39			39							
Upbound	Domestic	4	710	1557	195.0	35.0	9	9.2	1.6	7.4	139	2016	N	1			1							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2016	N	1			1							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2016	N	4			4							
Upbound	Domestic	4	000764	2532	200.0	35.0	8	13.0	1.5	6.5	120	2016	N	3			3							
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2016	N	1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2016	N	2			2							
Upbound	Domestic	4	000764	1858	200.0	35.0	8	10.0	1.6	6.4	191	2016	N	2			2							
Upbound	Domestic	4	823	2059	200.0	35.0	6	8.0	1.6	4.4	25	2016	N	2			2							
Upbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2016	N	2			2							
Upbound	Domestic	4	000764	1616	200.0	35.0	8	9.0	1.6	6.4	205	2016	N	1			1							
Upbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2016	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	7	10.0	1.4	5.6	208	2016	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2016	N	2							2			
Upbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2016	N	3							3			
Upbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	154	2016	N	1							1			
Upbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.6	7.4	170	2016		3			3							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2016	N	14			14							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2016	N	5			5							
Upbound	Domestic	4	764	2098	200.0	35.0	6	11.0	1.5	4.5	218	2016	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	11	11.0	1.9	9.1	206	2016		1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2016	N	2			2							
Upbound	Domestic	5	835	1662	195.0	35.0	8	10.0	1.9	6.1	149	2016		2					2					
Upbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2016	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2016	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2016	N	1			1							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2016	N	9			9							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2016	N	4			4							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2016	N	10			10							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2016	N	3			3							
Upbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2016	N	1			1							
Upbound	Domestic	4	000823	2058	200.0	35.0	11	14.0	2.0	9.0	9999	2016	N	1			1							
Upbound	Domestic	4	764	1625	200.0	35.0	8	9.0	1.7	6.3	220	2016	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	7	12.0	1.5	5.5	208	2016	N	1			1							
Upbound	Domestic	4	000764	1578	200.0	35.0	12	9.0	3.0	9.0	9999	2016	N	1			1							
Upbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2016	N	1							1			
Upbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2016	N	1							1			
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2016	N	32			32							
Upbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2016	N	2			2							
Upbound	Domestic	4	000764	2353	200.0	35.0	8	12.9	1.6	6.4	205	2016	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2016	N	3			3							
Upbound	Domestic	4	000764	1560	200.0	35.0	11	9.0	3.0	8.0	9999	2016	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	12	9.0	3.0	9.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	1742	200.0	35.0	9	10.0	1.7	7.3	195	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	13.0	2.0	5.0	218	2016	N	1			1							
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2016		7		7								
Upbound	Domestic	5	1619	4465	297.5	54.0	2	12.0	2.0	0.0	220	2016		3									3	
Upbound	Domestic	4	764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2016	N	1							1			
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2016	N	7			7							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2016	N	5			5							
Upbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2016	N	3			3							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2016	N	7			7							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2016	N	1			1							
Upbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2016	N	2			2							
Upbound	Domestic	4	000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	9	10.0	3.0	6.0	9999	2016	N	1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2016	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	10.0	1.8	6.2	170	2016	N	1			1							
Upbound	Domestic	5	001151	3275	175.0	54.0	2	9.0	1.5	0.5	164	2016		6									6	
Upbound	Domestic	4	764	1637	200.0	35.0	2	9.0	1.5	0.5	155	2016	N	1							1			
Upbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2016	N	1							1			
Upbound	Domestic	4	705	1648	200.0	35.0	2	12.0	1.5	0.5	186	2016	N	1							1			
Upbound	Domestic	4	000764	2085	200.0	35.0	2	13.0	1.5	0.5	240	2016	N	1							1			
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2016	N	2			2							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2016	N	5			5							
Upbound	Domestic	4	764	1625	200.0	35.0	9	9.0	1.7	7.3	220	2016	N	1			1							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	1			1							
Upbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2016	N	2			2							
Upbound	Domestic	4	000764	1640	200.0	35.0	8	9.0	1.5	6.5	160	2016	N	1			1							
Upbound	Domestic	4	764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2016	N	1			1							
Upbound	Domestic	4	000823	2292	200.0	35.0	8	12.0	2.0	6.0	250	2016	N	1			1							
Upbound	Domestic	4	000764	1640	200.0	35.0	6	9.0	1.5	4.5	160	2016	N	1			1							
Upbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2016	N	2			2							
Upbound	Domestic	4	764	1422	200.0	35.0	6	8.0	1.6	4.4	165	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	6	13.0	2.0	4.0	250	2016	N	1			1							
Upbound	Domestic	5	835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2016	N	2					2					
Upbound	Domestic	4	933	1658	200.0	35.0	8	9.0	1.6	6.4	177	2016	N	1			1							
Upbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2016		1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2016		1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2016	N	1			1							
Upbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2016	N	1			1							
Upbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2016		2		2								
Upbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2016		3		3								
Upbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2016	N	2			2							
Upbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2016	N	4			4							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2016	N	12							12			
Upbound	Domestic	4	764	1886	200.0	35.0	9	10.0	1.5	7.5	150	2016	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	12.0	1.8	8.2	206	2016		2			2							
Upbound	Domestic	4	823	1627	200.0	35.0	12	12.0	1.8	10.2	230	2016	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2016	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2016	N	1			1							
Upbound	Domestic	4	000823	2398	200.0	35.0	6	13.0	1.7	4.3	256	2016	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	10	10.0	3.0	7.0	206	2016	N	1			1							
Upbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2016		7		7								
Upbound	Domestic	3	000086	107	73.0	30.0	2	11.0	7.5	-5.5	330	2016		2		2								
Upbound	Domestic	4	000764	2090	200.0	35.0	9	11.0	1.6	7.4	210	2016		2			2							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2016	N	12			12							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2016	N	24			24							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2016	N	5			5							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2016	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	186	2016	N	4			4							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2016	N	2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	688	2142	195.0	35.0	2	11.0	1.5	0.5	160	2016	N	1							1			
Upbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2016	N	9			9							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	115	2016	N	1			1							
Upbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2016	N	2			2							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2016	N	6			6							
Upbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2016	N	1			1							
Upbound	Domestic	4	000823	2603	200.0	35.0	8	12.0	1.7	6.3	250	2016	N	1			1							
Upbound	Domestic	4	823	2194	200.0	35.0	6	8.0	1.4	4.6	25	2016	N	2			2							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2016	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2016	N	1			1							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2016	N	1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2016	N	2			2							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2016	N	1			1							
Upbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2016	N	2							2			
Upbound	Domestic	5	1092	2100	175.0	54.0	1	8.5	1.3	-0.3	180	2016		3									3	
Upbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2016	N	3							3			
Upbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.5	0.5	205	2016	N	1							1			
Upbound	Domestic	4	000764	1615	200.0	35.0	11	12.0	1.8	9.2	170	2016		1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2016		4			4							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2016	N	16			16							
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2016	N	3			3							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2016	N	3			3							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	13.0	1.5	9.5	208	2016	N	2			2							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2016	N	2			2							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2016	N	5			5							
Upbound	Domestic	4	688	1912	195.0	35.0	9	10.0	1.7	7.3	160	2016	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2016	N	5			5							
Upbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2016	N	2			2							
Upbound	Domestic	4	000705	1619	200.0	35.0	9	9.0	1.6	7.4	205	2016	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2016	N	2			2							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	214	2016	N	1			1							
Upbound	Domestic	4	000764	1616	200.0	35.0	6	9.0	1.6	4.4	205	2016	N	1			1							
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2016		1									1	
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2016	N	2			2							
Upbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2016	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2016	N	3			3							
Upbound	Domestic	4	823	1500	200.0	35.0	7	9.0	2.0	5.0	140	2016	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	7	13.0	1.6	5.4	165	2016	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2016	N	12			12							
Upbound	Domestic	4	764	1559	200.0	35.0	7	9.0	1.5	5.5	170	2016	N	2			2							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2016		1					1					
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	255	2016	N	1			1							
Upbound	Domestic	4	000764	2202	200.0	35.0	7	13.0	2.0	5.0	208	2016	N	1			1							
Upbound	Domestic	3	000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2016		34		34								
Upbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2016	N	3							3			
Upbound	Domestic	5	1803	2500	295.0	52.0	2	9.0	2.5	-0.5	340	2016		1									1	
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2016	N	1							1			
Upbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2016	N	15			15							
Upbound	Domestic	4	823	2295	200.0	35.0	9	12.0	1.4	7.6	227	2016		1			1							
Upbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2016	N	7			7							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2016	N	1			1							
Upbound	Domestic	4	823	2078	200.0	35.0	8	11.0	1.6	6.4	250	2016	N	1			1							
Upbound	Domestic	5	001623	3200	297.7	54.1	9	9.0	2.0	7.0	180	2016		1					1					
Upbound	Domestic	4	000745	2292	200.0	35.0	8	12.0	2.0	6.0	216	2016	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	2	11.0	1.6	0.4	210	2016		1							1			
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2016	N	5							5			
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2016		26			26							
Upbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2016		2			2							
Upbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2016	N	1			1							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2016	N	10			10							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	7			7							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2016	N	6			6							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2016	N	3			3							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2016	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2016	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2016		5			5							
Upbound	Domestic	3	999999	999999	101.0	28.0	7	6.5	6.5	0.5	420	2016	N	1		1								
Upbound	Domestic	5	001455	3200	295.0	54.0	2	10.0	2.0	0.0	170	2016		1									1	
Upbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2016	N	3			3							
Upbound	Domestic	4	000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2016	N	2			2							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	11			11							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	120	2016		1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	12.0	1.8	5.2	210	2016	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.5	7.5	165	2016	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2016	N	3			3							
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2016		10									10	
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2016		6									6	
Upbound	Domestic	4	000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2016	N	2							2			
Upbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2016	N	1							1			
Upbound	Domestic	5	001622	2500	270.0	53.0	2	9.0	2.0	0.0	220	2016		1									1	
Upbound	Domestic	4	000764	1965	200.0	35.0	2	13.0	1.6	0.4	240	2016	N	2							2			
Upbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2016		5			5							
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2016	N	10			10							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2016	N	3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2016	N	11			11							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2016	N	2			2							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2016	N	2			2							
Upbound	Domestic	4	764	1640	200.0	35.0	7	9.0	1.5	5.5	225	2016	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2016	N	5			5							
Upbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.6	7.4	225	2016	N	1			1							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2016	N	3			3							
Upbound	Domestic	4	823	2733	200.0	35.0	8	14.0	1.6	6.4	211	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	2.0	5.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	6	12.0	1.8	4.2	210	2016	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2016	N	37			37							
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2016	N	14			14							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2016	N	11			11							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2016	N	2			2							
Upbound	Domestic	4	000764	1869	200.0	35.0	7	10.0	1.7	5.3	191	2016	N	3			3							
Upbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2016	N	2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2016	N	6			6							
Upbound	Domestic	4	000764	2500	200.0	35.0	9	9.0	1.7	7.3	206	2016		1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2016	N	2			2							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2016	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2016	N	1			1							
Upbound	Domestic	5	1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2016		8									8	
Upbound	Domestic	4	687	2061	195.0	35.0	2	9.0	1.5	0.5	160	2016	N	2							2			
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2016	N	2			2							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2016	N	10			10							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	205	2016	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	10	12.0	1.5	8.5	208	2016	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2016	N	1			1							
Upbound	Domestic	4	802	1670	200.0	35.0	8	9.0	2.0	6.0	139	2016	N	1			1							
Upbound	Domestic	4	764	1537	200.0	35.0	7	9.0	1.8	5.2	225	2016	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2016	N	1			1							
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2016		25		25								
Upbound	Domestic	5	2476	2500	310.0	50.0	3	9.0	2.5	0.5	230	2016		4									4	
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2016	N	1							1			
Upbound	Domestic	4	000764	2488	200.0	35.0	8	12.0	1.6	6.4	9999	2016	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2016	N	2			2							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2016	N	1			1							
Upbound	Domestic	4	000705	2728	200.0	35.0	11	14.0	1.6	9.4	256	2016	N	1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	9	11.0	1.7	7.3	130	2016	N	2			2							
Upbound	Domestic	4	000764	1506	200.0	35.0	7	11.0	1.8	5.2	120	2016		1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	11	12.0	1.5	9.5	199	2016	N	1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2016	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2016	N	1			1							
Upbound	Domestic	3	000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2016		6		6								
Upbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2016		19		19								
Upbound	Domestic	4	000764	2200	200.0	35.0	3	10.0	3.0	0.0	9999	2016	N	1							1			
Upbound	Domestic	4	687	1919	195.0	35.0	8	11.0	1.6	6.4	180	2016	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2016	N	3			3							
Upbound	Domestic	4	764	2292	200.0	35.0	2	12.0	1.5	0.5	170	2016	N	1							1			
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2016	N	1			1							
Upbound	Domestic	4	933	1527	195.0	35.0	9	10.0	1.5	7.5	199	2016	N	2			2							
Upbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2016		2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2016	N	5			5							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2016	N	1			1							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2016		3		3								
Upbound	Domestic	4	823	2743	200.0	35.0	2	14.0	1.5	0.5	241	2016	N	2							2			
Upbound	Domestic	5	814	2442	148.0	54.0	2	9.0	2.0	0.0	180	2016		4									4	
Upbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2016	N	1							1			
Upbound	Domestic	4	000764	1506	200.0	35.0	6	11.0	1.8	4.2	206	2016		1			1							
Upbound	Domestic	4	000764	1553	200.0	35.0	9	9.0	1.6	7.4	130	2016	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2016	N	6			6							
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2016	N	1			1							
Upbound	Domestic	4	000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2016		1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2016		3			3							
Upbound	Domestic	5	808	1400	195.0	35.0	9	9.0	1.5	7.5	180	2016	N	1					1					
Upbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2016	N	1			1							
Upbound	Domestic	4	000745	2090	195.0	35.0	7	12.0	1.8	5.2	170	2016		1			1							
Upbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2016		4									4	
Upbound	Domestic	5	001841	3200	290.0	54.0	2	10.0	2.0	0.0	220	2016		2									2	
Upbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2016	N	2							2			
Upbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2016	N	1							1			
Upbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2016	N	1			1							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2016	N	27			27							
Upbound	Domestic	4	823	2579	200.0	35.0	8	14.0	1.7	6.3	231	2016	N	2			2							
Upbound	Domestic	4	000764	1611	200.0	35.0	11	9.0	3.0	8.0	9999	2016	N	1			1							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2016	N	5			5							
Upbound	Domestic	4	000764	1553	200.0	35.0	7	9.0	1.6	5.4	130	2016	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2016	N	1			1							
Upbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2016	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2016	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2016		1			1							
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2016	N	1			1							
Upbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2016		1									1	
Upbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2016	N	1							1			
Upbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2016	N	1							1			
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2016		3									3	
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2016	N	19			19							
Upbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2016	N	3			3							
Upbound	Domestic	4	856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2016	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2016	N	2			2							
Upbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2016	N	1			1							
Upbound	Domestic	4	000764	2475	200.0	35.0	8	12.0	3.0	5.0	225	2016	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2016	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2016	N	1			1							
Upbound	Domestic	4	000764	1607	200.0	35.0	3	9.0	3.0	0.0	9999	2016	N	1							1			
Upbound	Domestic	3	000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2016		2		2								
Upbound	Domestic	4	000764	1539	200.0	35.0	2	13.0	1.9	0.1	206	2016	N	1							1			
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2016	N	2			2							
Upbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	11			11							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2016	N	6			6							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	13.0	2.0	9.0	208	2016	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	130	2016	N	1			1							
Upbound	Domestic	4	770	1889	200.0	35.0	8	10.0	1.5	6.5	149	2016	N	1			1							
Upbound	Domestic	4	000764	1400	200.0	35.0	9	11.0	1.5	7.5	130	2016	N	3			3							
Upbound	Domestic	4	687	1724	195.0	35.0	6	10.0	1.5	4.5	206	2016	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2016	N	1			1							
Upbound	Domestic	5	1619	3300	297.5	54.0	2	9.0	2.0	0.0	180	2016		9									9	
Upbound	Domestic	5	1619	3300	297.0	54.0	2	9.0	2.0	0.0	180	2016		17									17	
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2016		1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2016		2			2							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	212	2016	N	2			2							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2016	N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2016	N	5			5							
Upbound	Domestic	4	000764	2408	200.0	35.0	8	13.0	1.6	6.4	220	2016	N	4			4							
Upbound	Domestic	4	687	1723	195.0	35.0	6	10.0	1.5	4.5	206	2016	N	2			2							
Upbound	Domestic	4	000687	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2016	N	5			5							
Upbound	Domestic	4	745	1915	195.0	35.0	7	11.0	1.7	5.3	224	2016	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2016	N	11			11							
Upbound	Domestic	4	000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2016	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	9	12.0	1.7	7.3	215	2016	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	11	11.0	2.0	9.0	160	2016		3					3					
Upbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	1			1							
Upbound	Domestic	4	802	2100	195.0	35.0	8	12.0	2.0	6.0	217	2016	N	2			2							
Upbound	Domestic	4	000802	2406	105.0	35.0	8	10.0	2.0	6.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	13	13.0	1.9	11.1	206	2016	N	1			1							
Upbound	Domestic	4	000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2016	N	1			1							
Upbound	Domestic	5	1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2016		5									5	
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2016		5									5	
Upbound	Domestic	4	000823	2469	200.0	35.0	2	12.0	2.0	0.0	180	2016	N	1							1			
Upbound	Domestic	4	000764	1964	200.0	35.0	2	9.0	2.0	0.0	196	2016	N	1							1			
Upbound	Domestic	4	000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2016	N	1							1			
Upbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2016	N	2							2			
Upbound	Domestic	4	000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2016	N	2			2							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2016	N	4			4							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2016	N	6			6							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2016	N	17			17							
Upbound	Domestic	4	000823	1750	200.0	35.0	10	10.0	1.7	8.3	140	2016	N	1			1							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2016	N	3			3							
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2016	N	5			5							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2016	N	4			4							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2016	N	4			4							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2016	N	2			2							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2016	N	1			1							
Upbound	Domestic	4	705	1643	200.0	35.0	8	9.0	1.6	6.4	160	2016	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	6	9.0	1.6	4.4	9999	2016		1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2016	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2016	N	16			16							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2016		19		19								
Upbound	Domestic	4	764	1518	200.0	35.0	2	9.0	1.8	0.2	205	2016	N	1							1			
Upbound	Domestic	4	000700	2187	200.0	35.0	2	12.0	1.7	0.3	250	2016	N	2							2			
Upbound	Domestic	4	000764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2016	N	1							1			
Upbound	Domestic	4	764	1990	200.0	35.0	4	11.0	4.0	0.0	170	2016	N	1							1			
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2016	N	2			2							
Upbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2016	N	1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2016	N	2			2							
Upbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2016	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2016	N	1			1							
Upbound	Domestic	4	000745	1648	195.0	35.0	10	12.0	1.5	8.5	186	2016	N	1			1							
Upbound	Domestic	4	000764	1521	200.0	35.0	9	9.0	1.8	7.2	225	2016	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.5	6.5	165	2016	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	2	13.0	1.9	0.1	206	2016	N	1							1			
Upbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2016	N	3							3			
Upbound	Domestic	4	000764	1651	200.0	35.0	9	13.0	1.9	7.1	206	2016		1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2016	N	17			17							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2016	N	1			1							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	130	2016	N	4			4							
Upbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2016	N	1			1							
Upbound	Domestic	4	799	1887	200.0	35.0	9	10.0	1.4	7.6	149	2016	N	1			1							
Upbound	Domestic	4	000823	2295	200.0	35.0	9	12.0	1.5	7.5	190	2016	N	2			2							
Upbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2016	N	1			1							
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2016	N	2									2	
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2016	N	5			5							
Upbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2016	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2016	N	5			5							
Upbound	Domestic	5	000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2016	N	1					1					
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2016	N	4			4							
Upbound	Domestic	4	705	1653	200.0	35.0	8	9.0	1.5	6.5	218	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	3.0	3.0	9999	2016	N	1			1							
Upbound	Domestic	5	1619	3390	297.5	54.0	11	11.0	2.0	9.0	160	2016	N	3					3					
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2016	N	3			3							
Upbound	Domestic	4	000764	1504	200.0	35.0	10	11.0	1.9	8.1	206	2016	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	100	2016	N	1			1							
Upbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2016		18		18								
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2016	N	2									2	
Upbound	Domestic	5	716	1450	195.0	35.0	2	9.0	1.5	0.5	168	2016	N	2									2	
Upbound	Domestic	4	823	1643	200.0	35.0	2	11.0	1.5	0.5	9999	2016	N	1							1			
Upbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2016	N	1							1			
Upbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	200	2016	N	2							2			
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2016	N	6			6							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2016	N	9			9							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2016	N	6			6							
Upbound	Domestic	4	663	1892	200.0	35.0	8	10.0	1.4	6.6	140	2016	N	1			1							
Upbound	Domestic	4	000705	1650	200.0	35.0	12	12.0	1.5	10.5	208	2016	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2016	N	1			1							
Upbound	Domestic	4	000764	2406	200.0	35.0	9	13.0	1.6	7.4	120	2016	N	1			1							
Upbound	Domestic	4	000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	2			2							
Upbound	Domestic	4	000764	2272	200.0	35.0	2	9.0	1.5	0.5	215	2016	N	1							1			
Upbound	Domestic	4	000764	2151	200.0	35.0	8	13.0	1.8	6.2	190	2016	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	7	13.0	1.8	5.2	190	2016	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	10.0	1.8	7.2	206	2016		1			1							
Upbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2016		5		5								
Upbound	Domestic	5	001619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2016		6									6	
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2016		5									5	
Upbound	Domestic	4	000764	1855	200.0	35.0	2	10.0	1.7	0.3	130	2016	N	1							1			
Upbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2016	N	4			4							
Upbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2016	N	3			3							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2016	N	1			1							
Upbound	Domestic	4	000764	1745	200.0	35.0	8	10.0	1.7	6.3	195	2016	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	1			1							
Upbound	Domestic	4	856	2312	200.0	35.0	8	12.0	1.5	6.5	217	2016	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	7	10.0	1.4	5.6	205	2016	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	160	2016	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2016	N	2			2							
Upbound	Domestic	5	001623	32000	297.7	54.1	2	9.0	2.0	0.0	180	2016		3									3	
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2016		1									1	
Upbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	190	2016	N	1							1			
Upbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2016	N	1							1			
Upbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2016	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2016	N	33			33							
Upbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2016	N	2			2							
Upbound	Domestic	4	000573	2400	200.0	35.0	8	11.0	2.5	5.5	250	2016	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	7	12.0	1.8	5.2	220	2016	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2016	N	1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	9	12.0	3.0	6.0	215	2016	N	1			1							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2016	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	1.7	6.3	160	2016	N	3			3							
Upbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	225	2016	N	1			1							
Upbound	Domestic	5	795	1475	195.0	35.0	8	9.0	1.8	6.2	178	2016	N	3					3					
Upbound	Domestic	4	772	2415	200.0	35.0	7	13.0	1.5	5.5	130	2016	N	3			3							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	13.0	1.5	10.5	208	2016	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.5	0.5	191	2016	N	1							1			
Upbound	Domestic	3	517	999999	138.0	38.5	8	8.5	8.0	0.0	395	2016		1		1								
Upbound	Domestic	3	000318	609	147.0	38.0	8	9.0	8.0	0.0	470	2016		1		1								
Upbound	Domestic	5	1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2016		4									4	
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2016	N	1							1			
Upbound	Domestic	4	000764	1700	200.0	35.0	6	9.0	1.9	4.1	206	2016		1			1							
Upbound	Domestic	4	000745	2235	195.0	13.0	8	15.0	3.0	5.0	9999	2016	N	2			2							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2016	N	3			3							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2016	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2016	N	5			5							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2016	N	1			1							
Upbound	Domestic	4	764	1900	200.0	35.0	5	10.0	1.5	3.5	210	2016	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2016	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2016	N	5			5							
Upbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2016	N	4			4							
Upbound	Domestic	4	000823	2200	200.0	35.0	6	12.0	2.0	4.0	213	2016	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2016	N	1			1							
Upbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	196	2016	N	2			2							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2016	N	5			5							
Upbound	Domestic	4	710	1557	195.0	35.0	2	9.2	1.6	0.4	139	2016	N	1							1			
Upbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.5	0.5	241	2016	N	1							1			
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2016	N	2			2							
Upbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2016		7			7							
Upbound	Domestic	4	764	1875	200.0	35.0	7	10.0	1.7	5.3	163	2016	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	130	2016	N	1			1							
Upbound	Domestic	4	000764	1742	200.0	35.0	8	10.0	1.7	6.3	130	2016	N	1			1							
Upbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2016		25		25								
Upbound	Domestic	4	000764	2060	200.0	35.0	2	11.0	1.8	0.2	195	2016	N	1							1			
Upbound	Domestic	4	000705	1648	200.0	35.0	2	12.0	1.5	0.5	186	2016	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2016	N	16			16							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2016		10					10					
Upbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2016	N	2			2							
Upbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2016	N	3			3							
Upbound	Domestic	4	802	1898	195.0	35.0	9	11.0	1.8	7.2	250	2016	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.8	7.2	189	2016	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	14	9.0	1.8	12.2	230	2016	N	3			3							
Upbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2016	N	1			1							
Upbound	Domestic	5	812	1388	195.0	35.0	9	9.0	2.1	6.9	140	2016	N	1					1					
Upbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2016	N	1			1							
Upbound	Domestic	5	914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2016		2									2	
Upbound	Domestic	3	000086	107	73.0	30.0	8	11.0	7.5	0.5	330	2016		2		2								
Upbound	Domestic	4	000764	2406	200.0	35.0	5	13.0	1.6	3.4	120	2016	N	2			2							
Upbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2016	N	7			7							
Upbound	Domestic	4	823	2077	200.0	35.0	12	12.0	1.5	10.5	215	2016	N	2			2							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2016	N	2			2							
Upbound	Domestic	4	764	1626	200.0	35.0	9	9.0	1.5	7.5	165	2016	N	1			1							
Upbound	Domestic	4	823	2077	200.0	35.0	12	10.0	1.5	10.5	215	2016	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2016		1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2016	N	2			2							
Upbound	Domestic	4	764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2016	N	1			1							
Upbound	Domestic	5	809	1487	195.0	35.0	8	9.0	1.8	6.2	213	2016	N	1					1					
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2016	N	2			2							
Upbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2016	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	12.0	2.0	5.0	9999	2016	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2016	N	2			2							
Upbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2016	N	1			1							
Upbound	Domestic	4	000764	2073	200.0	35.0	7	11.0	1.5	5.5	230	2016	N	1			1							
Upbound	Domestic	4	000764	1854	200.0	35.0	9	10.0	1.6	7.4	196	2016	N	1			1							
Upbound	Domestic	4	764	1625	200.0	35.0	2	9.0	1.7	0.3	220	2016	N	1							1			
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2016	N	4			4							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2016		1			1							
Upbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2016	N	2			2							
Upbound	Domestic	4	802	2110	200.0	35.0	7	12.0	1.8	5.2	234	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	250	2016	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	9999	2016	N	2			2							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2016	N	2			2							
Upbound	Domestic	4	000764	1506	200.0	35.0	10	10.0	1.8	8.2	206	2016		1			1							
Upbound	Domestic	4	000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2016		1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2016	N	2			2							
Upbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2016		24		24								
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2016		4		4								
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2016		4									4	
Upbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2016	N	4							4			
Upbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	191	2016	N	1							1			
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2016	N	32			32							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2016	N	2			2							
Upbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.7	8.3	195	2016	N	2			2							
Upbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2016	N	2			2							
Upbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2016	N	1							1			
Upbound	Domestic	4	000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2016	N	2							2			
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2016	N	14			14							
Upbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2016	N	11			11							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2016	N	6			6							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2016	N	2			2							
Upbound	Domestic	4	764	1854	200.0	35.0	8	10.0	1.6	6.4	224	2016	N	2			2							
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	4			4							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	195	2016	N	1			1							
Upbound	Domestic	4	705	1667	200.0	35.0	8	9.0	1.7	6.3	170	2016	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	255	2016	N	2			2							
Upbound	Domestic	5	1455	3200	290.0	54.0	2	10.0	2.0	0.0	170	2016		6									6	
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2016		1		1								
Upbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.6	0.4	250	2016	N	2							2			
Upbound	Domestic	4	543	1497	195.0	35.0	8	9.0	1.6	6.4	119	2016	N	1			1							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2016	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2016	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	7	9.0	1.5	5.5	155	2016	N	1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2016	N	2			2							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2016	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2016	N	2			2							
Upbound	Domestic	4	764	1990	200.0	35.0	6	9.0	1.5	4.5	170	2016	N	1			1							
Upbound	Domestic	4	823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2016	N	3			3							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2016	N	1			1							
Upbound	Domestic	5	886	886	200.0	35.0	8	9.0	1.9	6.1	142	2016	N	2					2					
Upbound	Domestic	4	000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2016	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2016	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2016	N	2			2							
Upbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2016	N	3			3							
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2016	N	6			6							
Upbound	Domestic	4	000823	2100	200.0	35.0	7	11.0	2.0	5.0	165	2016	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	9999	2016	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2016	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	230	2016	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	150	2016	N	2			2							
Upbound	Domestic	4	823	1643	200.0	35.0	12	12.0	1.5	10.5	9999	2016	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2016	N	2			2							
Upbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2016		1			1							
Upbound	Domestic	4	000764	1548	200.0	35.0	12	9.0	3.0	9.0	9999	2016	N	1			1							
Upbound	Domestic	4	764	1854	200.0	35.0	9	10.0	1.6	7.4	224	2016	N	1			1							
Upbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2016	N	2			2							
Upbound	Domestic	4	705	1556	200.0	35.0	7	9.0	1.5	5.5	223	2016	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	250	2016	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	11.0	1.8	7.2	206	2016		1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	12	9.0	3.0	9.0	9999	2016	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	206	2016		1			1							
Upbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2016	N	13			13							
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2016	N	4			4							
Upbound	Domestic	4	764	1765	200.0	35.0	8	10.0	2.0	6.0	165	2016	N	1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2016	N	12					12					
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2016		1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.8	6.2	205	2016	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2016	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	2.0	5.0	9999	2016	N	1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2016	N	2			2							
Upbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	177	2016	N	1			1							
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2016		5									5	
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2016		2									2	
Upbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	190	2016	N	2							2			
Upbound	Domestic	4	696	1665	200.0	35.0	8	9.0	1.5	6.5	192	2016	N	1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2016	N	3			3							
Upbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2016	N	1			1							
Upbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	130	2016	N	1			1							
Upbound	Domestic	4	000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2016		1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	7	9.0	1.5	5.5	225	2016	N	1			1							
Upbound	Domestic	3	108	999999	75.0	24.0	9	8.6	8.0	1.0	425	2016		18		18								
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2016		9									9	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic		4 000764	1728	200.0	35.0	2	9.0	1.6	0.4	206	2016	1							1			
Upbound	Domestic		4 000745	1705	195.0	35.0	2	10.0	1.6	0.4	139	2016 N	1							1			
Upbound	Domestic		4 000764	1538	200.0	35.0	2	9.0	1.7	0.3	9999	2016 N	1							1			
Upbound	Domestic		4 705	9100	200.0	35.0	3	10.0	1.4	1.6	208	2016 N	1							1			
Upbound	Domestic		4 000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2016 N	4			4							
Upbound	Domestic		4 000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2016 N	1			1							
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2016 N	3			3							
Upbound	Domestic		4 802	2537	195.0	35.0	7	14.0	1.7	5.3	211	2016 N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	9	12.0	2.0	7.0	9999	2016 N	1			1							
Upbound	Domestic		5 886	886	200.0	35.0	9	9.0	1.9	7.1	142	2016 N	1					1					
Upbound	Domestic		4 764	1648	200.0	35.0	12	10.0	1.5	10.5	255	2016 N	1			1							
Upbound	Domestic		4 705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2016 N	6							6			
Upbound	Domestic		4 764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2016 N	1							1			
Upbound	Domestic		4 745	2345	195.0	35.0	9	13.0	1.6	7.4	209	2016 N	1			1							
Upbound	Domestic		4 000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2016 N	3			3							
Upbound	Domestic		4 000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2016 N	4			4							
Upbound	Domestic		4 000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2016 N	10			10							
Upbound	Domestic		4 000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2016 N	1			1							
Upbound	Domestic		4 933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2016 N	3			3							
Upbound	Domestic		4 000764	1619	200.0	35.0	10	10.0	3.0	7.0	206	2016	1			1							
Upbound	Domestic		4 000764	1965	200.0	35.0	9	13.0	1.6	7.4	240	2016 N	1			1							
Upbound	Domestic		4 999999	1541	200.0	35.0	8	9.0	1.6	6.4	143	2016 N	1			1							
Upbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2016 N	1			1							
Upbound	Domestic		4 000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2016 N	1			1							
Upbound	Domestic		4 000764	1633	200.0	35.0	8	9.0	1.6	6.4	225	2016 N	1			1							
Upbound	Domestic		4 000823	1600	200.0	35.0	8	9.0	1.5	6.5	9999	2016 N	1			1							
Upbound	Domestic		4 000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2016 N	1			1							
Upbound	Domestic		5 1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2016	4									4	
Upbound	Domestic		4 764	1665	200.0	35.0	2	9.0	1.4	0.6	155	2016 N	1							1			
Upbound	Domestic		4 000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2016 N	1							1			
Downbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2016 N	2				2						
Downbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2016 N	3				3						
Downbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2016 N	8				8						
Downbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2016 N	10				10						
Downbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2016 N	3				3						
Downbound	Domestic		4 000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2016 N	1				1						
Downbound	Domestic		5 2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2016	3						3				
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2016	7				7						
Downbound	Domestic		5 2476	2500	310.0	50.0	9	9.0	2.5	6.5	230	2016	4						4				
Downbound	Domestic		4 705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2016 N	5				5						
Downbound	Domestic		4 000764	2474	200.0	35.0	4	12.9	1.6	2.4	205	2016 N	1				1						
Downbound	Domestic		5 001918	3100	297.5	54.0	8	10.3	2.0	6.0	193	2016 N	1						1				
Downbound	Domestic		4 705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2016 N	2				2						
Downbound	Domestic		4 000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2016 N	7				7						
Downbound	Domestic		4 764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2016 N	1				1						
Downbound	Domestic		5 914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2016	1						1				
Downbound	Domestic		4 000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2016 N	1				1						
Downbound	Domestic		4 000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2016 N	15								15		
Downbound	Domestic		3 533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2016	6		6								
Downbound	Domestic		4 000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2016 N	5								5		
Downbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2016 N	3				3						
Downbound	Domestic		4 764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2016 N	3				3						
Downbound	Domestic		4 727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2016 N	2				2						
Downbound	Domestic		4 000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2016 N	1				1						
Downbound	Domestic		4 000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2016 N	6				6						
Downbound	Domestic		4 000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2016 N	6				6						
Downbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2016 N	6				6						
Downbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2016 N	8				8						
Downbound	Domestic		4 000823	1750	200.0	35.0	4	10.0	1.7	2.3	140	2016 N	2				2						
Downbound	Domestic		4 000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2016 N	5				5						
Downbound	Domestic		4 705	1640	200.0	35.0	8	9.0	1.5	6.5	165	2016 N	1				1						
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2016	1				1						
Downbound	Domestic		4 823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2016 N	1				1						
Downbound	Domestic		4 000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2016 N	2				2						
Downbound	Domestic		4 960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2016 N	4				4						
Downbound	Domestic		4 705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2016 N	2				2						
Downbound	Domestic		4 000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2016	1				1						
Downbound	Domestic		3 000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2016	3		3								
Downbound	Domestic		4 000764	1611	200.0	35.0	3	9.0	3.0	0.0	9999	2016 N	1								1		
Downbound	Domestic		4 705	1660	200.0	35.0	2	9.0	1.4	0.6	218	2016 N	1								1		
Downbound	Domestic		4 676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2016 N	2								2		
Downbound	Domestic		4 688	1542	200.0	35.0	2	9.0	1.5	0.5	210	2016 N	1								1		
Downbound	Domestic		4 922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2016 N	3								3		
Downbound	Domestic		4 705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2016 N	1								1		
Downbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2016 N	11				11						
Downbound	Domestic		4 764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2016 N	6				6						
Downbound	Domestic		4 000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2016 N	3				3						
Downbound	Domestic		4 000823	2594	200.0	35.0	9	12.0	1.8	7.2	250	2016 N	1				1						
Downbound	Domestic		4 687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2016 N	6				6						
Downbound	Domestic		4 764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2016 N	15				15						
Downbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2016 N	11				11						
Downbound	Domestic		4 823	1640	200.0	35.0	8	9.0	1.5	6.5	205	2016 N	1				1						
Downbound	Domestic		4 000823	1838	200.0	35.0	8	10.0	1.7	6.3	191	2016 N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	8	10.0	3.0	5.0	9999	2016 N	2				2						
Downbound	Domestic		4 705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2016 N	9				9						
Downbound	Domestic		4 000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2016 N	5				5						
Downbound	Domestic		4 764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2016 N	1				1						
Downbound	Domestic		4 935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2016 N	1				1						
Downbound	Domestic		4 764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2016 N	2				2						
Downbound	Domestic		4 000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2016 N	1				1						
Downbound	Domestic		4 764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2016 N	1								1		
Downbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2016 N	6				6						
Downbound	Domestic		4 764	1666	200.0	35.0	9	9.0	1.5	7.5	170	2016 N	1				1						
Downbound	Domestic		4 618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2016 N	2				2						
Downbound	Domestic		4 000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2016 N	5				5						
Downbound	Domestic		4 745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2016 N	3				3						
Downbound	Domestic		4 000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2016	3				3						
Downbound	Domestic		4 000764	2651	200.0	35.0	8	9.0	1.6	6.4	206	2016	1				1						
Downbound	Domestic		4 000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2016 N	1				1						
Downbound	Domestic		4 764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2016 N	2				2						
Downbound	Domestic		4 764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2016 N	1				1						
Downbound	Domestic		5 2688	2600	298.0	54.0	9	8.6	4.0	5.0	260	2016	1						1				
Downbound	Domestic		4 600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2016 N	2				2						
Downbound	Domestic		4 000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2016 N	9								9		
Downbound	Domestic		4 000764	1619	200.0	35.0	3	10.0	3.0	0.0	206	2016	1								1		
Downbound	Domestic		4 000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2016 N	2								2		
Downbound	Domestic		4 764	1504	200.0	35.0	2	9.0	1.5	0.5	189	2016 N	1								1		
Downbound	Domestic		4 000764	1506	200.0	35.0	2	9.0	1.9	0.1	206	2016	1								1		
Downbound	Domestic		4 000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2016	1				1						
Downbound	Domestic		4 000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2016 N	3				3						
Downbound	Domestic		5 2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2016	2						2				
Downbound	Domestic		4 000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2016	2				2						
Downbound	Domestic		5 914	2800	147.5	52.5	9	13.0	2.0	7.0	180	2016	1						1				
Downbound	Domestic		4 000764	2151	200.0	35.0	10	13.0	2.0	8.0	170	2016 N	1				1						
Downbound	Domestic		5 001619	4857	297.5	54.0	8	10.0	3.0	5.0	9999	2016	1						1				
Downbound	Domestic		4 705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2016 N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2016	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2016	N	1				1						
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2016		17		17								
Downbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2016	N	4				4						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2016	N	2				2						
Downbound	Domestic	4	000329	1500	140.0	40.0	2	3.0	2.0	0.0	70	2016	N	2								2		
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2016	N	4				4						
Downbound	Domestic	4	745	2345	195.0	35.0	8	13.0	1.6	6.4	209	2016	N	1				1						
Downbound	Domestic	4	764	1865	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	2				2						
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2016	N	2						2				
Downbound	Domestic	5	001623	32000	297.7	54.1	9	9.0	2.0	7.0	180	2016		2						2				
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	4				4						
Downbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.5	7.5	250	2016	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2016	N	6				6						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2016	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2016	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2016		2				2						
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2016	N	8								8		
Downbound	Domestic	4	000764	2151	200.0	35.0	2	13.0	1.8	0.2	190	2016	N	2								2		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.7	0.3	215	2016	N	1								1		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2016		1										1
Downbound	Domestic	4	000764	1546	200.0	35.0	2	9.0	1.6	0.4	205	2016	N	1								1		
Downbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2016	N	3		3								
Downbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2016		5				5						
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2016	N	17								17		
Downbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2016	N	1				1						
Downbound	Domestic	4	823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2016	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2016	N	4				4						
Downbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2016	N	2				2						
Downbound	Domestic	4	000764	2674	200.0	35.0	6	10.0	2.0	4.0	160	2016	N	1				1						
Downbound	Domestic	4	823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2016	N	1				1						
Downbound	Domestic	5	766	1500	200.0	35.0	9	9.0	2.0	7.0	170	2016	N	2						2				
Downbound	Domestic	4	000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2016	N	2				2						
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2016	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	230	2016	N	1				1						
Downbound	Domestic	5	001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2016		2						2				
Downbound	Domestic	4	000764	1504	200.0	35.0	12	13.0	1.9	10.1	206	2016	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2016	N	17								17		
Downbound	Domestic	4	783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2016	N	1								1		
Downbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2016	N	2								2		
Downbound	Domestic	4	764	1854	200.0	35.0	2	10.0	1.6	0.4	224	2016	N	2								2		
Downbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	186	2016	N	2								2		
Downbound	Domestic	5	808	1400	195.0	35.0	2	9.0	1.5	0.5	180	2016	N	1										1
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	1.7	1.3	160	2016	N	2								2		
Downbound	Domestic	4	000764	1858	200.0	35.0	2	10.0	1.6	0.4	191	2016	N	1								1		
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2016		7						7				
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2016		1						1				
Downbound	Domestic	4	823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2016	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2016	N	11				11						
Downbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2016	N	5				5						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2016	N	10				10						
Downbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2016	N	1				1						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2016	N	3								3		
Downbound	Domestic	4	311	1498	195.0	35.0	8	9.0	1.6	6.4	155	2016	N	1				1						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2016	N	3				3						
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2016	N	2				2						
Downbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2016	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.7	7.3	195	2016	N	1				1						
Downbound	Domestic	4	764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2016	N	1				1						
Downbound	Domestic	3	201	999999	94.1	30.0	7	7.0	7.0	0.0	390	2016		1		1								
Downbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2016		5		5								
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2016	N	2										2
Downbound	Domestic	4	000745	1504	200.0	35.0	2	9.0	1.9	0.1	206	2016		1								1		
Downbound	Domestic	5	795	1475	195.0	35.0	2	9.0	1.8	0.2	178	2016	N	3										3
Downbound	Domestic	5	1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2016		7						7				
Downbound	Domestic	4	687	1501	195.0	35.0	9	10.0	1.5	7.5	186	2016	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2016	N	3				3						
Downbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2016	N	3				3						
Downbound	Domestic	4	764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2016	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	228	2016	N	2				2						
Downbound	Domestic	4	000782	1990	200.0	35.0	6	9.0	1.5	4.5	170	2016	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2016	N	2				2						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2016	N	1				1						
Downbound	Domestic	3	66	999999	56.5	22.1	7	7.5	6.5	0.5	350	2016		1		1								
Downbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2016		1								1		
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2016		3				3						
Downbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	250	2016	N	6				6						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2016	N	12				12						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	225	2016	N	3				3						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2016	N	3				3						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	225	2016	N	1				1						
Downbound	Domestic	4	000764	2005	200.0	35.0	11	10.0	2.0	9.0	9999	2016	N	1				1						
Downbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2016	N	4				4						
Downbound	Domestic	4	000764	2651	200.0	35.0	8	9.0	1.6	6.4	206	2016	N	1				1						
Downbound	Domestic	3	000237	453	96.0	34.0	2	11.0	9.0	-7.0	526	2016	N	1		1								
Downbound	Domestic	4	000764	2500	200.0	35.0	2	9.0	1.7	0.3	206	2016		1								1		
Downbound	Domestic	4	000764	1504	200.0	35.0	2	13.0	1.9	0.1	206	2016		1								1		
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2016	N	3				3						
Downbound	Domestic	4	764	1546	200.0	35.0	9	9.0	1.5	7.5	170	2016	N	1				1						
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	1.6	6.4	220	2016	N	1				1						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2016	N	2				2						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2016	N	4				4						
Downbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2016		1				1						
Downbound	Domestic	4	000823	2792	200.0	35.0	8	12.0	1.7	6.3	250	2016	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	9999	2016	N	1				1						
Downbound	Domestic	4	000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2016	N	3				3						
Downbound	Domestic	4	000823	2398	200.0	35.0	7	13.0	1.7	5.3	256	2016	N	1				1						
Downbound	Domestic	4	687	2061	195.0	35.0	6	9.0	1.5	4.5	160	2016	N	2				2						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	11.0	1.8	6.2	170	2016	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2016	N	1				1						
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2016		7		7								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2016	N	28								28		
Downbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2016		31		31								
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2016		1								1		
Downbound	Domestic	5	1891	3100	281.7	54.0	11	9.0	2.0	9.0	180	2016		1						1				
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2016	N	2				2						
Downbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2016	N	1				1						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2016	N	5				5						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2016	N	6				6						
Downbound	Domestic	4	000764	1652	200.0	35.0	9	9.0	1.5	7.5	215	2016	N	1				1						
Downbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2016	N	3				3						
Downbound	Domestic	4	764	2098	200.0	35.0	4	11.0	1.5	2.5	218	2016	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	1.4	6.6	230	2016	N	1				1						
Downbound	Domestic	4	764	1537	200.0	35.0	9	9.0	1.8	7.2	225	2016	N	1				1						
Downbound	Domestic	4	823	1643	200.0	35.0	12	11.0	1.5	10.5	9999	2016	N	1				1						
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2016		17		17								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2016		44		44								
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2016		5		5								
Downbound	Domestic	3	000177	999999	85.8	32.0	8	10.0	8.0	0.0	480	2016		2		2								
Downbound	Domestic	4	727	1768	200.0	35.0	2	10.0	1.6	0.4	149	2016	N	2								2		
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2016	N	2								2		
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.6	0.4	170	2016		2								2		
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2016	N	2								2		
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2016		2		2								
Downbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2016	N	2				2						
Downbound	Domestic	4	000687	1500	195.0	35.0	8	10.0	3.0	5.0	9999	2016	N	3				3						
Downbound	Domestic	4	000823	2292	200.0	35.0	9	12.0	2.0	7.0	250	2016	N	4				4						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2016	N	1				1						
Downbound	Domestic	4	823	2078	200.0	35.0	9	11.0	1.6	7.4	250	2016	N	1				1						
Downbound	Domestic	4	823	2304	200.0	35.0	7	12.0	1.7	5.3	190	2016	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2016	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2016	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	4	8.0	1.6	2.4	165	2016	N	1				1						
Downbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2016	N	1				1						
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2016	N	5								5		
Downbound	Domestic	4	000687	2061	195.0	35.0	2	12.0	1.6	0.4	9999	2016	N	1								1		
Downbound	Domestic	4	696	1665	200.0	35.0	2	9.0	1.5	0.5	192	2016	N	1								1		
Downbound	Domestic	3	000498	190	115.2	34.0	2	10.0	2.0	0.0	9999	2016		3		3								
Downbound	Domestic	4	823	2194	200.0	35.0	2	8.0	1.4	0.6	25	2016	N	1								1		
Downbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2016	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2016	N	5				5						
Downbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2016	N	5				5						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2016		1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2016		1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2016	N	6				6						
Downbound	Domestic	4	000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2016	N	1				1						
Downbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2016	N	3				3						
Downbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.7	6.3	206	2016		1				1						
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2016	N	7								7		
Downbound	Domestic	3	405	999999	138.0	44.0	9	9.0	8.5	0.5	380	2016	N	2		2								
Downbound	Domestic	4	000745	2235	200.0	35.0	2	15.0	3.0	-1.0	9999	2016	N	2								2		
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2016	N	1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2016	N	4				4						
Downbound	Domestic	4	000764	1578	200.0	35.0	11	9.0	3.0	8.0	9999	2016	N	1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	8	9.0	1.5	6.5	210	2016	N	1				1						
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2016		23		23								
Downbound	Domestic	4	764	1886	200.0	35.0	2	10.0	1.5	0.5	150	2016	N	1								1		
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2016		7				7						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2016	N	4				4						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2016	N	3				3						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	2				2						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2016	N	1				1						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	9999	2016	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	1				1						
Downbound	Domestic	4	823	1627	200.0	35.0	10	9.0	1.8	8.2	230	2016	N	1				1						
Downbound	Domestic	4	000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2016	N	1				1						
Downbound	Domestic	3	349	999999	139.1	35.1	8	8.0	7.5	0.5	366	2016		2		2								
Downbound	Domestic	4	000687	1500	195.0	35.0	3	10.0	3.0	0.0	9999	2016	N	1								1		
Downbound	Domestic	4	543	1497	195.0	35.0	9	9.0	1.6	7.4	119	2016	N	1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2016	N	6				6						
Downbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2016	N	1				1						
Downbound	Domestic	4	000764	1608	200.0	35.0	8	9.0	1.7	6.3	215	2016	N	2				2						
Downbound	Domestic	4	000764	1648	200.0	35.0	13	13.0	1.5	11.5	208	2016	N	2				2						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	170	2016		1				1						
Downbound	Domestic	5	1619	3300	297.5	54.0	9	9.0	2.0	7.0	180	2016		8						8				
Downbound	Domestic	4	000764	2300	200.0	35.0	7	9.0	1.4	5.6	165	2016	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2016	N	1				1						
Downbound	Domestic	4	000823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2016	N	1				1						
Downbound	Domestic	4	799	1887	200.0	35.0	8	10.0	1.4	6.6	149	2016	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2016	N	3				3						
Downbound	Domestic	4	000764	2000	200.0	35.0	9	11.0	2.0	7.0	130	2016	N	4				4						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2016	N	1				1						
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2016	N	2										2
Downbound	Domestic	4	000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2016	N	1								1		
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2016		2								2		
Downbound	Domestic	5	687	1516	195.0	35.0	1	9.0	1.0	0.0	150	2016	N	1										1
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2016	N	1								1		
Downbound	Domestic	5	2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2016		5						5				
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2016	N	11				11						
Downbound	Domestic	5	1455	3200	290.0	54.0	10	10.0	2.0	8.0	170	2016		8						8				
Downbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2016	N	4				4						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2016		4				4						
Downbound	Domestic	4	000764	1538	200.0	35.0	8	9.0	1.7	6.3	9999	2016	N	2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2016	N	1				1						
Downbound	Domestic	3	634	999999	145.0	48.0	9	10.0	9.0	0.0	426	2016	N	2		2								
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2016		11						11				
Downbound	Domestic	4	000687	1534	200.0	35.0	8	9.0	1.6	6.4	160	2016	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2016	N	4				4						
Downbound	Domestic	4	764	1535	200.0	35.0	8	9.0	1.8	6.2	225	2016	N	1				1						
Downbound	Domestic	5	001321	3200	280.4	54.0	9	9.0	2.0	7.0	180	2016		4						4				
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2016		1				1						
Downbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2016	N	1				1						
Downbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2016	N	4				4						
Downbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2016	N	1				1						
Downbound	Domestic	4	000764	2353	200.0	35.0	9	12.9	1.6	7.4	205	2016	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2016	N	1				1						
Downbound	Domestic	5	001619	3270	297.0	54.0	1	10.0	0.6	0.4	280	2016		1										1
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2016		16								16		
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2016	N	1								1		
Downbound	Domestic	4	182	500	110.0	32.0	2	6.0	1.5	0.5	80	2016	N	1								1		
Downbound	Domestic	4	823	1627	200.0	35.0	2	12.0	1.8	0.2	230	2016	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	9999	2016	N	1								1		
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2016	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2016	N	6				6						
Downbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2016	N	1				1						
Downbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2016	N	4				4						
Downbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2016	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2016		1				1						
Downbound	Domestic	4	823	2059	200.0	35.0	6	8.0	1.6	4.4	25	2016	N	2				2						
Downbound	Domestic	4	710	1557	195.0	35.0	9	9.2	1.6	7.4	139	2016	N	2				2						
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2016	N	1				1						
Downbound	Domestic	4	000764	1616	200.0	35.0	8	9.0	1.6	6.4	205	2016	N	2				2						
Downbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2016	N	1				1						
Downbound	Domestic	4	000764	1858	200.0	35.0	8	10.0	1.6	6.4	191	2016	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.4	0.6	16	2016	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2016	N	4								4		
Downbound	Domestic	4	000764	1539	200.0	35.0	11	11.0	1.9	9.1	206	2016		2				2						
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2016	N	21				21						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2016	N	9				9						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2016	N	2				2						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2016	N	2				2						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2016	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2016	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	4	10.0	1.6	2.4	165	2016	N	1				1						
Downbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	160	2016	N	1				1						
Downbound	Domestic	4	764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2016		1								1		
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2016	N	2				2						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2016	N	2				2						
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2016	N	6				6						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2016	N	4				4						
Downbound	Domestic	4	000764	1677	200.0	35.0	4	9.0	1.4	2.6	165	2016	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2016	N	15				15						
Downbound	Domestic	4	000823	2058	200.0	35.0	11	14.0	2.0	9.0	9999	2016	N	1				1						
Downbound	Domestic	4	764	1625	200.0	35.0	8	9.0	1.7	6.3	220	2016	N	1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2016	N	1								1		
Downbound	Domestic	4	933	1527	195.0	35.0	2	10.0	1.5	0.5	199	2016	N	1								1		
Downbound	Domestic	4	000764	1548	200.0	35.0	3	9.0	3.0	0.0	9999	2016	N	1								1		
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2016	N	4								4		
Downbound	Domestic	4	000745	1502	195.0	35.0	2	9.0	1.6	0.4	155	2016	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2016	N	15				15						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2016	N	10				10						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2016	N	2				2						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	2				2						
Downbound	Domestic	4	000764	2353	200.0	35.0	8	12.9	1.6	6.4	205	2016	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2016	N	1				1						
Downbound	Domestic	4	745	1714	195.0	35.0	8	9.0	1.6	6.4	210	2016	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	1				1						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2016		7		7								
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.5	0.5	150	2016	N	2								2		
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2016	N	8				8						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	148	2016	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2016	N	2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2016	N	7				7						
Downbound	Domestic	4	764	1956	200.0	35.0	6	9.0	2.0	4.0	130	2016	N	1				1						
Downbound	Domestic	4	000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2016	N	3				3						
Downbound	Domestic	5	1619	4465	297.5	54.0	9	12.0	2.0	7.0	220	2016		1						1				
Downbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2016	N	4				4						
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2016	N	3				3						
Downbound	Domestic	4	000764	2151	200.0	35.0	8	12.0	1.8	6.2	170	2016	N	1				1						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2016	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	8	10.0	1.8	6.2	170	2016	N	1				1						
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2016	N	5								5		
Downbound	Domestic	4	663	1892	200.0	35.0	2	10.0	1.4	0.6	140	2016	N	1								1		
Downbound	Domestic	4	000764	2085	200.0	35.0	2	13.0	1.5	0.5	240	2016	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2016	N	3				3						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2016	N	3				3						
Downbound	Domestic	4	000764	1652	200.0	35.0	11	12.0	3.0	8.0	215	2016	N	1				1						
Downbound	Domestic	4	764	1625	200.0	35.0	9	9.0	1.7	7.3	220	2016	N	2				2						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2016	N	3				3						
Downbound	Domestic	4	764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2016	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2016	N	2				2						
Downbound	Domestic	4	000764	1640	200.0	35.0	8	9.0	1.5	6.5	160	2016	N	2				2						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	1				1						
Downbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2016		2				2						
Downbound	Domestic	4	000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2016		2				2						
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2016	N	3				3						
Downbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2016	N	5				5						
Downbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2016		2		2								
Downbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2016		2		2								
Downbound	Domestic	4	000764	1651	200.0	35.0	10	12.0	1.8	8.2	206	2016		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2016	N	15								15		
Downbound	Domestic	4	823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2016	N	2				2						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2016	N	2				2						
Downbound	Domestic	4	000764	1857	200.0	35.0	7	10.0	1.5	5.5	160	2016	N	1				1						
Downbound	Domestic	4	745	2077	195.0	35.0	9	9.0	1.5	7.5	215	2016	N	1				1						
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2016		8		8								
Downbound	Domestic	3	000086	107	73.0	30.0	2	11.0	7.5	-5.5	330	2016		2		2								
Downbound	Domestic	4	000764	2151	200.0	35.0	2	12.0	1.8	0.2	195	2016	N	2								2		
Downbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2016	N	1		1								
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2016	N	1								1		
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2016	N	14				14						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2016	N	6				6						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2016	N	5				5						
Downbound	Domestic	4	823	1662	200.0	35.0	9	9.0	1.4	7.6	235	2016	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2016	N	1				1						
Downbound	Domestic	5	1922	4144	300.0	54.0	9	12.0	1.0	8.0	165	2016		2						2				
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	208	2016	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	11.0	1.6	7.4	210	2016		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	186	2016	N	4				4						
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2016		4						4				
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2016	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	2	12.0	1.5	0.5	208	2016	N	1								1		
Downbound	Domestic	4	933	1674	200.0	35.0	7	9.0	2.0	5.0	192	2016	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2016	N	5				5						
Downbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2016	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2016	N	1				1						
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2016	N	4				4						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	115	2016	N	1				1						
Downbound	Domestic	5	1891	3100	281.7	54.0	9	9.0	2.0	7.0	180	2016		8						8				
Downbound	Domestic	4	000823	2603	200.0	35.0	8	12.0	1.7	6.3	250	2016	N	1				1						
Downbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2016	N	3				3						
Downbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2016	N	4				4						
Downbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2016	N	1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2016	N	3				3						
Downbound	Domestic	4	688	1680	200.0	35.0	8	9.0	1.5	6.5	210	2016	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2016	N	1				1						
Downbound	Domestic	4	000745	2100	195.0	35.0	2	12.0	2.0	0.0	9999	2016	N	12								12		
Downbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2016	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.5	0.5	215	2016	N	1								1		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.6	0.4	210	2016		1								1		
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2016	N	1								1		
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2016	N	19				19						
Downbound	Domestic	4	000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2016	N	6				6						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2016	N	5				5						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2016	N	1				1						
Downbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2016	N	2				2						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	12.0	1.5	10.5	208	2016	N	3				3						
Downbound	Domestic	4	000764	1615	200.0	35.0	11	12.0	1.8	9.2	170	2016		1				1						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2016		2				2						
Downbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.6	8.4	165	2016	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	214	2016	N	1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2016	N	1				1						
Downbound	Domestic	4	000764	1855	200.0	35.0	8	10.0	1.7	6.3	130	2016	N	1				1						
Downbound	Domestic	4	000705	2406	200.0	35.0	2	13.0	1.6	0.4	120	2016	N	1								1		
Downbound	Domestic	4	999999	1541	200.0	35.0	2	9.0	1.6	0.4	143	2016	N	1								1		
Downbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2016	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2016	N	11				11						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2016	N	4				4						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	255	2016	N	1				1						
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2016	N	1				1						
Downbound	Domestic	4	687	1514	195.0	35.0	8	9.0	1.5	6.5	206	2016	N	1				1						
Downbound	Domestic	3	000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2016		28		28								
Downbound	Domestic	4	688	1912	195.0	35.0	2	10.0	1.7	0.3	160	2016	N	1							1			
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2016	N	4							4			
Downbound	Domestic	4	000764	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2016	N	3							3			
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	208	2016	N	1							1			
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2016		1							1			
Downbound	Domestic	5	001623	3200	297.7	54.1	9	9.0	2.0	7.0	180	2016		15					15					
Downbound	Domestic	4	680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2016	N	2				2						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2016	N	3				3						
Downbound	Domestic	4	764	1765	200.0	35.0	9	10.0	2.0	7.0	165	2016	N	1				1						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	11.0	2.0	7.0	165	2016	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2016	N	3				3						
Downbound	Domestic	4	000764	2090	200.0	35.0	8	10.0	1.8	6.2	170	2016		1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2016	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2016	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2016	N	5							5			
Downbound	Domestic	4	764	1990	200.0	35.0	2	11.0	4.0	-2.0	170	2016	N	2							2			
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2016	N	1							1			
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2016		5				5						
Downbound	Domestic	5	1819	3100	281.7	54.0	11	9.0	2.0	9.0	180	2016		1					1					
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2016		20				20						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2016	N	10				10						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2016	N	7				7						
Downbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2016	N	2				2						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2016	N	3				3						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2016	N	4				4						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	6				6						
Downbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2016	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2016	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	11	13.0	1.9	9.1	206	2016		1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	3	10.0	1.7	1.3	140	2016	N	1							1			
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2016	N	1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2016	N	1				1						
Downbound	Domestic	5	001619	3444	297.0	54.0	1	10.0	0.6	0.4	280	2016		1										1
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	228	2016	N	1							1			
Downbound	Domestic	3	999999	999999	101.0	28.0	7	6.5	6.5	0.5	420	2016	N	1		1								
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	250	2016	N	1							1			
Downbound	Domestic	4	764	1635	200.0	35.0	2	9.0	1.6	0.4	225	2016	N	1							1			
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2016	N	6				6						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	11				11						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	120	2016		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	12.0	1.8	5.2	210	2016	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2016	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.5	7.5	165	2016	N	1				1						
Downbound	Domestic	4	927	1549	200.0	35.0	9	9.0	1.5	7.5	120	2016	N	1				1						
Downbound	Domestic	4	764	1504	200.0	35.0	8	9.0	1.8	6.2	189	2016	N	1				1						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2016	N	1				1						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2016	N	3				3						
Downbound	Domestic	4	000764	1705	195.0	35.0	2	10.0	1.5	0.5	140	2016	N	1							1			
Downbound	Domestic	4	000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2016	N	1							1			
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2016	N	3							3			
Downbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2016		1				1						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2016		10					10					
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2016	N	10				10						
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2016	N	5				5						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2016	N	4				4						
Downbound	Domestic	4	000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2016	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2016	N	1				1						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2016	N	7				7						
Downbound	Domestic	4	000764	2292	200.0	35.0	6	12.0	1.8	4.2	210	2016	N	2				2						
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2016	N	2				2						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2016	N	2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	2.0	5.0	9999	2016	N	2				2						
Downbound	Domestic	4	000823	2398	200.0	35.0	9	13.0	1.7	7.3	256	2016	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	2	10.0	1.5	0.5	206	2016	N	1							1			
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2016		3							3			
Downbound	Domestic	5	1619	3300	297.0	54.0	9	9.0	2.0	7.0	180	2016		15					15					
Downbound	Domestic	5	1092	2100	175.0	54.0	8	8.5	1.3	6.7	180	2016		1					1					
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2016	N	14				14						
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2016	N	2				2						
Downbound	Domestic	4	764	1610	200.0	35.0	8	9.0	1.6	6.4	165	2016	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2016	N	5				5						
Downbound	Domestic	4	000764	1605	200.0	35.0	12	9.0	3.0	9.0	9999	2016	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2016	N	4				4						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2016	N	9				9						
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2016	N	3				3						
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2016		2					2					
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2016	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	4	13.0	2.0	2.0	9999	2016	N	1							1			
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2016	N	1				1						
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2016		10										10
Downbound	Domestic	5	812	1388	195.0	35.0	3	9.0	2.1	0.9	140	2016	N	1										1
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2016	N	3							3			
Downbound	Domestic	4	000802	2406	105.0	35.0	2	10.0	2.0	0.0	9999	2016	N	1							1			
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2016	N	1							1			
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.6	0.4	170	2016	N	1							1			
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2016	N	2				2						
Downbound	Domestic	4	764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2016	N	1				1						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2016	N	7				7						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	10.0	1.5	9.5	215	2016	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2016	N	4				4						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	155	2016	N	1				1						
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2016		35		35								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2016	N	24							24			
Downbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2016	N	2							2			
Downbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2016	N	2				2						
Downbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2016	N	4				4						
Downbound	Domestic	4	823	1500	200.0	35.0	4	9.0	2.0	2.0	140	2016	N	1							1			
Downbound	Domestic	4	000705	2728	200.0	35.0	11	14.0	1.6	9.4	256	2016	N	1				1						
Downbound	Domestic	5	001622	2500	270.0	53.0	8	9.0	2.0	6.0	220	2016		1					1					
Downbound	Domestic	4	764	2000	200.0	35.0	9	11.0	1.7	7.3	130	2016	N	2				2						
Downbound	Domestic	3	000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2016		6		6								
Downbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2016		17		17								
Downbound	Domestic	4	000764	1608	200.0	35.0	2	9.0	1.7	0.3	195	2016	N	1							1			
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2016	N	6				6						
Downbound	Domestic	4	687	1919	195.0	35.0	8	11.0	1.6	6.4	180	2016	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2016	N	7				7						
Downbound	Domestic	4	764	2292	200.0	35.0	2	12.0	1.5	0.5	170	2016	N	2							2			
Downbound	Domestic	5	3084	2874	298.0	54.0	9	8.6	4.0	5.0	260	2016		6					6					
Downbound	Domestic	5	716	1450	195.0	35.0	9	9.0	1.5	7.5	168	2016	N	3					3					
Downbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2016		1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2016	N	1				1						
Downbound	Domestic	5	000796	2388	147.6	54.0	10	10.0	2.0	8.0	170	2016		2					2					

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	2528	200.0	35.0	9	13.0	1.5	7.5	155	2016	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	9	10.0	1.5	7.5	199	2016	N	1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2016		4		4								
Downbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2016	N	1								1		
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2016		3				3						
Downbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2016	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2016	N	3				3						
Downbound	Domestic	5	1660	3400	297.6	54.1	9	9.0	2.0	7.0	180	2016		2						2				
Downbound	Domestic	4	000764	1504	200.0	35.0	10	11.0	1.9	8.1	206	2016		1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2016	N	1				1						
Downbound	Domestic	4	764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2016	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2016	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2016	N	28								28		
Downbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2016	N	2								2		
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2016	N	2				2						
Downbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2016	N	1				1						
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2016	N	13				13						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	208	2016	N	2				2						
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2016	N	4				4						
Downbound	Domestic	4	706	1507	200.0	35.0	8	9.0	1.9	6.1	215	2016	N	1				1						
Downbound	Domestic	4	823	2579	200.0	35.0	8	14.0	1.7	6.3	231	2016	N	3				3						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2016	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2016		1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2016	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2016	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	212	2016	N	2								2		
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2016	N	5				5						
Downbound	Domestic	5	1819	3100	281.7	54.0	9	9.0	2.0	7.0	180	2016		3						3				
Downbound	Domestic	5	1619	3200	297.5	54.0	9	9.0	2.0	7.0	180	2016		1						1				
Downbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2016	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2016	N	2				2						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2016	N	2				2						
Downbound	Domestic	4	000764	2475	200.0	35.0	8	12.0	3.0	5.0	225	2016	N	1				1						
Downbound	Domestic	3	000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2016		2		2								
Downbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2016	N	2				2						
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	9				9						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2016	N	6				6						
Downbound	Domestic	4	000764	1607	200.0	35.0	12	9.0	3.0	9.0	9999	2016	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2016	N	4				4						
Downbound	Domestic	4	823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2016	N	2				2						
Downbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	130	2016	N	1				1						
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2016	N	2				2						
Downbound	Domestic	4	000764	1400	200.0	35.0	9	11.0	1.5	7.5	130	2016	N	3				3						
Downbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2016	N	1				1						
Downbound	Domestic	4	000764	2060	200.0	35.0	8	11.0	1.8	6.2	195	2016	N	1				1						
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2016	N	2								2		
Downbound	Domestic	4	000705	1619	200.0	35.0	2	9.0	1.6	0.4	205	2016	N	1								1		
Downbound	Domestic	4	823	1641	200.0	35.0	2	9.0	1.4	0.6	160	2016	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2016		2				2						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2016	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	9	12.0	1.7	7.3	215	2016	N	1				1						
Downbound	Domestic	5	1419	3000	230.0	54.0	7	10.0	2.0	5.0	170	2016		1						1				
Downbound	Domestic	4	000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2016	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2016		2				2						
Downbound	Domestic	4	000687	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2016	N	2				2						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2016	N	5				5						
Downbound	Domestic	4	000764	2408	200.0	35.0	8	13.0	1.6	6.4	220	2016	N	4				4						
Downbound	Domestic	4	764	1990	200.0	35.0	7	9.0	1.5	5.5	170	2016	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2016	N	9				9						
Downbound	Domestic	4	764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2016	N	1				1						
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	139	2016	N	2								2		
Downbound	Domestic	4	000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2016	N	4								4		
Downbound	Domestic	4	772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2016	N	1								1		
Downbound	Domestic	4	000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2016	N	1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2016	N	2				2						
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2016	N	6				6						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2016	N	7				7						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2016	N	5				5						
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2016	N	4				4						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2016	N	12				12						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2016	N	4				4						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2016	N	2				2						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2016	N	2				2						
Downbound	Domestic	4	802	2100	195.0	35.0	9	12.0	2.0	7.0	217	2016	N	2				2						
Downbound	Domestic	4	000706	1569	200.0	35.0	9	9.0	1.6	7.4	215	2016	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2016	N	4				4						
Downbound	Domestic	4	000764	1651	200.0	35.0	9	10.0	1.8	7.2	206	2016	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2016		16		16								
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2016	N	18										18
Downbound	Domestic	4	933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2016	N	2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	220	2016	N	1								1		
Downbound	Domestic	4	764	1990	200.0	35.0	4	11.0	4.0	0.0	170	2016	N	1								1		
Downbound	Domestic	5	835	1662	195.0	35.0	2	10.0	1.9	0.1	149	2016		2										2
Downbound	Domestic	5	886	886	200.0	35.0	2	9.0	1.9	0.1	142	2016	N	2										2
Downbound	Domestic	5	000796	2388	147.6	54.0	9	10.0	2.0	7.0	170	2016		3						3				
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2016	N	16				16						
Downbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2016	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	234	2016	N	1				1						
Downbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2016	N	4				4						
Downbound	Domestic	5	1619	4298	297.5	54.0	10	12.0	2.0	8.0	220	2016		1						1				
Downbound	Domestic	5	1619	3390	297.5	54.0	8	11.0	2.0	6.0	160	2016	N	1						1				
Downbound	Domestic	4	000823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2016	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	9	9.0	2.0	7.0	177	2016	N	1				1						
Downbound	Domestic	4	000745	1648	195.0	35.0	10	12.0	1.5	8.5	186	2016	N	1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	2	12.0	1.6	0.4	130	2016	N	1								1		
Downbound	Domestic	5	1619	4298	297.5	54.0	12	12.0	2.0	10.0	220	2016		7						7				
Downbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2016	N	1				1						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2016	N	16				16						
Downbound	Domestic	4	000764	1651	200.0	35.0	9	13.0	1.9	7.1	206	2016		1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2016	N	4				4						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2016	N	1				1						
Downbound	Domestic	4	705	1663	200.0	35.0	9	9.0	1.5	7.5	223	2016	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2016	N	1				1						
Downbound	Domestic	4	000823	2295	200.0	35.0	9	12.0	1.5	7.5	190	2016	N	2				2						
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2016		9								9		
Downbound	Domestic	4	823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2016	N	2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	220	2016	N	14								14		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2016	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2016		1								1		
Downbound	Domestic	5	1619	3300	297.5	54.0	10	9.0	2.0	8.0	180	2016		1						1				
Downbound	Domestic	4	823	2295	200.0	35.0	8	12.0	1.4	6.6	227	2016		2				2						
Downbound	Domestic	4	000764	1560	200.0	35.0	11	9.0	2.0	9.0	9999	2016	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2016	N	3				3						
Downbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	3.0	3.0	9999	2016	N	2				2						
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2016	N	3				3						
Downbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2016	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2016	N	4				4						
Downbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2016	N	4				4						
Downbound	Domestic	4	705	1653	200.0	35.0	8	9.0	1.5	6.5	218	2016	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2016	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2016	N	3				3						
Downbound	Domestic	4	000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2016		1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	11	11.0	2.0	9.0	160	2016	N	2						2				
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2016		14		14								
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2016	N	3								3		
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2016	N	3								3		
Downbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2016		1								1		
Downbound	Domestic	4	799	1886	200.0	35.0	2	10.0	1.5	0.5	149	2016	N	1								1		
Downbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2016	N	1										1
Downbound	Domestic	4	823	2310	200.0	35.0	2	12.0	1.5	0.5	225	2016	N	3								3		
Downbound	Domestic	5	1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2016		1						1				
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2016	N	5				5						
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2016	N	8				8						
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2016	N	10				10						
Downbound	Domestic	4	000823	1536	200.0	35.0	4	9.0	1.7	2.3	140	2016	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2016	N	1				1						
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2016		2						2				
Downbound	Domestic	4	823	2077	200.0	35.0	11	12.0	1.5	9.5	215	2016	N	2				2						
Downbound	Domestic	4	000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2016	N	2				2						
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2016		4		4								
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2016	N	2								2		
Downbound	Domestic	4	000745	1865	200.0	35.0	2	10.0	1.5	0.5	139	2016	N	1								1		
Downbound	Domestic	4	823	2304	200.0	35.0	2	10.0	1.7	0.3	190	2016	N	1								1		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	11.0	1.8	0.2	206	2016	N	1								1		
Downbound	Domestic	5	001151	3275	175.0	54.0	9	9.0	1.5	7.5	164	2016		5						5				
Downbound	Domestic	4	763	2290	200.0	35.0	8	12.0	1.6	6.4	236	2016	N	1				1						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2016	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2016	N	6				6						
Downbound	Domestic	4	000764	2200	200.0	35.0	7	10.0	3.0	4.0	9999	2016	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	10	12.0	1.5	8.5	186	2016	N	1				1						
Downbound	Domestic	5	1724	3300	297.6	54.1	10	10.0	2.0	8.0	180	2016		3						3				
Downbound	Domestic	4	688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2016	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	160	2016	N	1				1						
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2016	N	8								8		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	190	2016	N	1								1		
Downbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2016	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2016	N	3				3						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2016	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	1.7	6.3	160	2016	N	2				2						
Downbound	Domestic	4	000764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2016	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.7	8.3	215	2016	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	12	13.0	1.5	10.5	208	2016	N	2				2						
Downbound	Domestic	4	000573	2400	200.0	35.0	8	11.0	2.5	5.5	250	2016	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	1.8	8.2	190	2016	N	1				1						
Downbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2016	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2016	N	2				2						
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.6	0.4	206	2016		1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2016	N	4								4		
Downbound	Domestic	4	000764	1862	200.0	35.0	2	10.0	1.5	0.5	191	2016	N	1								1		
Downbound	Domestic	5	2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2016		3						3				
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2016	N	7				7						
Downbound	Domestic	4	000745	2235	195.0	13.0	8	15.0	3.0	5.0	9999	2016	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2016	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2016	N	6				6						
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2016		8						8				
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2016	N	4				4						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2016	N	1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2016	N	4				4						
Downbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2016	N	4				4						
Downbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	196	2016	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2016	N	2				2						
Downbound	Domestic	4	922	1669	195.0	35.0	2	9.0	1.5	0.5	206	2016		17								17		
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2016	N	8								8		
Downbound	Domestic	4	000705	1650	200.0	35.0	2	12.0	1.5	0.5	208	2016	N	1								1		
Downbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2016	N	1								1		
Downbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.5	0.5	241	2016	N	1								1		
Downbound	Domestic	4	000764	1742	200.0	35.0	2	10.0	1.7	0.3	130	2016	N	1								1		
Downbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2016		9				9						
Downbound	Domestic	4	000764	2192	200.0	35.0	7	10.0	2.0	5.0	9999	2016		1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2016	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	206	2016	N	1				1						
Downbound	Domestic	4	000764	1742	200.0	35.0	8	10.0	1.7	6.3	130	2016	N	1				1						
Downbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2016		23		23								
Downbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2016	N	1								1		
Downbound	Domestic	4	000764	1745	200.0	35.0	2	10.0	1.7	0.3	195	2016	N	1								1		
Downbound	Domestic	5	1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2016		5						5				
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2016	N	10				10						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2016	N	2				2						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2016	N	6				6						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2016	N	4				4						
Downbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2016	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	165	2016	N	1				1						
Downbound	Domestic	4	000764	2060	200.0	35.0	8	11.0	1.8	6.2	195	2016		1				1						
Downbound	Domestic	3	000086	107	73.0	30.0	8	11.0	7.5	0.5	330	2016		2		2								
Downbound	Domestic	4	764	1552	200.0	35.0	2	9.0	1.5	0.5	163	2016	N	1								1		
Downbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2016	N	1								1		
Downbound	Domestic	5	814	2442	148.0	54.0	9	9.0	2.0	7.0	180	2016		4						4				
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2016	N	8				8						
Downbound	Domestic	4	000764	2406	200.0	35.0	5	13.0	1.6	3.4	120	2016	N	2				2						
Downbound	Domestic	4	764	2000	200.0	35.0	9	12.0	1.5	7.5	9999	2016	N	1				1						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2016	N	8				8						
Downbound	Domestic	4	823	2077	200.0	35.0	12	10.0	1.5	10.5	215	2016	N	1				1						
Downbound	Domestic	4	823	2077	200.0	35.0	12	12.0	1.5	10.5	215	2016	N	1				1						
Downbound	Domestic	5	001616	4850	297.0	54.0	8	10.0	3.0	5.0	9999	2016		1						1				
Downbound	Domestic	4	764	1626	200.0	35.0	8	9.0	1.5	6.5	165	2016	N	2				2						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2016	N	1				1						
Downbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2016	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2016		1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2016	N	2				2						
Downbound	Domestic	4	933	1658	200.0	35.0	2	9.0	1.6	0.4	177	2016	N	1								1		
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2016	N	6				6						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2016	N	3				3						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2016		4						4				
Downbound	Domestic	4	000764	1506	200.0	35.0	10	10.0	1.8	8.2	206	2016		1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	250	2016	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	9999	2016	N	3				3						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	250	2016	N	2				2						
Downbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2016	N	1				1						
Downbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2016		22		22								
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2016		4		4								
Downbound	Domestic	4	802	1898	195.0	35.0	2	11.0	1.8	0.2	250	2016	N	1								1		
Downbound	Domestic	4	000764	2202	200.0	35.0	2	13.0	2.0	0.0	208	2016	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	9999	2016	N	1								1		
Downbound	Domestic		5 809	1487	195.0	35.0	2	9.0	1.8	0.2	213	2016	N	1										1
Downbound	Domestic		4 000764	1506	200.0	35.0	2	11.0	1.8	0.2	206	2016		1								1		
Downbound	Domestic		4 000764	1506	200.0	35.0	2	12.0	1.8	0.2	206	2016		1								1		
Downbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2016	N	9				9						
Downbound	Domestic		4 764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2016	N	4				4						
Downbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.7	8.3	195	2016	N	2				2						
Downbound	Domestic		4 764	1517	200.0	35.0	8	9.0	1.9	6.1	225	2016	N	1				1						
Downbound	Domestic		4 823	1643	200.0	35.0	12	12.0	1.3	10.7	9999	2016	N	1				1						
Downbound	Domestic		5 1619	4465	297.5	54.0	12	12.0	2.0	10.0	220	2016		1					1					
Downbound	Domestic		4 764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2016	N	4				4						
Downbound	Domestic		4 823	1627	200.0	35.0	13	9.0	1.8	11.2	230	2016	N	2				2						
Downbound	Domestic		4 705	1893	200.0	35.0	4	10.0	1.4	2.6	204	2016	N	1				1						
Downbound	Domestic		4 705	1893	200.0	35.0	4	10.0	1.4	2.6	205	2016	N	1				1						
Downbound	Domestic		4 764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2016	N	2				2						
Downbound	Domestic		4 823	2279	200.0	35.0	6	9.0	1.7	4.3	223	2016	N	1				1						
Downbound	Domestic		4 763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2016	N	2								2		
Downbound	Domestic		4 823	1640	200.0	35.0	2	9.0	1.5	0.5	235	2016	N	1								1		
Downbound	Domestic		4 000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2016	N	1								1		
Downbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2016	N	9				9						
Downbound	Domestic		4 745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2016	N	11				11						
Downbound	Domestic		4 000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2016	N	1				1						
Downbound	Domestic		4 764	1648	200.0	35.0	12	12.0	1.5	10.5	255	2016	N	1				1						
Downbound	Domestic		4 000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	2				2						
Downbound	Domestic		4 705	1667	200.0	35.0	8	9.0	1.7	6.3	170	2016	N	1				1						
Downbound	Domestic		4 771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2016	N	1				1						
Downbound	Domestic		4 745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2016		5								5		
Downbound	Domestic		3 141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2016		2		2								
Downbound	Domestic		4 000764	1619	200.0	35.0	3	9.0	3.0	0.0	9999	2016	N	1								1		
Downbound	Domestic		5 2688	2800	298.0	54.0	9	8.6	4.0	5.0	260	2016		6					6					
Downbound	Domestic		4 688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2016	N	2				2						
Downbound	Domestic		4 823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2016	N	3				3						
Downbound	Domestic		4 000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2016	N	2				2						
Downbound	Domestic		4 764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2016	N	3				3						
Downbound	Domestic		4 764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2016	N	1				1						
Downbound	Domestic		4 705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2016	N	2				2						
Downbound	Domestic		4 000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2016	N	1				1						
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2016	N	1				1						
Downbound	Domestic		4 000823	2881	200.0	35.0	2	13.0	3.0	-1.0	9999	2016	N	10								10		
Downbound	Domestic		4 000764	2488	200.0	35.0	2	12.0	1.6	0.4	9999	2016	N	1								1		
Downbound	Domestic		4 000745	2235	195.0	13.0	2	15.0	3.0	-1.0	9999	2016	N	1								1		
Downbound	Domestic		4 000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2016		3				3						
Downbound	Domestic		4 802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2016	N	5				5						
Downbound	Domestic		4 764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2016	N	1				1						
Downbound	Domestic		4 764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2016	N	2				2						
Downbound	Domestic		4 802	2110	195.0	35.0	8	12.0	1.8	6.2	234	2016	N	1				1						
Downbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.8	8.2	9999	2016	N	1				1						
Downbound	Domestic		4 823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2016	N	2				2						
Downbound	Domestic		4 960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2016	N	1				1						
Downbound	Domestic		5 001841	3200	290.0	54.0	10	10.0	2.0	8.0	220	2016		1					1					
Downbound	Domestic		4 764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2016	N	1				1						
Downbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	230	2016	N	1				1						
Downbound	Domestic		4 772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2016	N	3				3						
Downbound	Domestic		4 799	1886	200.0	35.0	8	10.0	1.5	6.5	150	2016	N	1				1						
Downbound	Domestic		4 933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2016	N	1				1						
Downbound	Domestic		4 000823	2880	200.0	35.0	2	12.0	3.0	-1.0	9999	2016	N	4								4		
Downbound	Domestic		4 000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2016	N	6				6						
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2016	N	3				3						
Downbound	Domestic		4 764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2016	N	2				2						
Downbound	Domestic		4 764	1518	200.0	35.0	8	9.0	1.8	6.2	205	2016	N	3				3						
Downbound	Domestic		5 2688	2800	298.0	54.0	8	8.6	4.0	4.0	260	2016		2					2					
Downbound	Domestic		4 764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2016	N	1				1						
Downbound	Domestic		4 000764	1910	200.0	35.0	11	13.0	3.0	8.0	206	2016		1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	2.0	5.0	9999	2016	N	2				2						
Downbound	Domestic		4 000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2016		1				1						
Downbound	Domestic		4 000745	2292	195.0	35.0	2	15.0	3.0	-1.0	9999	2016	N	2								2		
Downbound	Domestic		4 763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2016	N	3								3		
Downbound	Domestic		5 847	1450	195.0	35.0	2	9.0	1.1	0.9	170	2016	N	1										1
Downbound	Domestic		4 000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2016	N	2								2		
Downbound	Domestic		4 000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2016	N	2								2		
Downbound	Domestic		4 823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2016	N	3				3						
Downbound	Domestic		4 000764	1600	200.0	35.0	4	9.0	1.6	2.4	130	2016	N	1				1						
Downbound	Domestic		4 772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2016	N	1				1						
Downbound	Domestic		4 706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2016	N	1				1						
Downbound	Domestic		4 000764	1608	200.0	35.0	8	9.0	1.7	6.3	130	2016	N	1				1						
Downbound	Domestic		3 108	999999	75.0	24.0	9	8.6	8.0	1.0	425	2016		17		17								
Downbound	Domestic		4 000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2016	N	28								28		
Downbound	Domestic		4 000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2016		1								1		
Downbound	Domestic		4 705	1546	200.0	35.0	2	9.0	1.5	0.5	223	2016	N	1								1		
Downbound	Domestic		4 000764	1653	200.0	35.0	3	10.0	3.0	0.0	217	2016	N	1								1		
Downbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2016	N	3				3						
Downbound	Domestic		4 705	9100	200.0	35.0	3	10.0	1.4	1.6	208	2016	N	1								1		
Downbound	Domestic		4 000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2016	N	5				5						
Downbound	Domestic		4 000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2016	N	1				1						
Downbound	Domestic		4 000764	1651	200.0	35.0	9	13.0	1.9	7.1	206	2016	N	1				1						
Downbound	Domestic		4 764	1648	200.0	35.0	12	10.0	1.5	10.5	255	2016	N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2016	N	28								28		
Downbound	Domestic		4 764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2016	N	1								1		
Downbound	Domestic		4 000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2016	N	1								1		
Downbound	Domestic		4 000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2016	N	1				1						
Downbound	Domestic		5 1724	3300	297.6	54.1	9	10.0	2.0	7.0	180	2016		1					1					
Downbound	Domestic		4 000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2016	N	5				5						
Downbound	Domestic		4 000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2016	N	3				3						
Downbound	Domestic		5 001619	3200	297.5	54.0	9	9.0	2.0	7.0	180	2016		5					5					
Downbound	Domestic		4 933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2016	N	1				1						
Downbound	Domestic		5 1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2016		4					4					
Downbound	Domestic		4 000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2016	N	3				3						
Downbound	Domestic		4 000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2016	N	1				1						
Downbound	Domestic		4 823	1825	200.0	35.0	7	9.0	1.7	5.3	210	2016	N	1				1						
Downbound	Domestic		4 000823	2400	200.0	35.0	8	12.0	2.0	6.0	9999	2016	N	1				1						
Downbound	Domestic		4 745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2016	N	1				1						
Downbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2016	N	1				1						
Downbound	Domestic		4 000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2016	N	1				1						
Downbound	Domestic		4 000764	1633	200.0	35.0	8	9.0	1.6	6.4	225	2016	N	1				1						
Downbound	Domestic		4 000764	1648	200.0	35.0	14	9.0	3.0	11.0	9999	2016	N	1				1						
Downbound	Domestic		4 764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2016	N	1				1						
Downbound	Domestic		4 000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2016	N	16								16		
Downbound	Domestic		4 834	1701	195.0	35.0	2	10.0	1.7	0.3	210	2016	N	1								1		
Downbound	Domestic		4 705	1617	200.0	35.0	2	9.0	1.6	0.4	160	2016	N	1								1		
Upbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	22			22							
Upbound	Domestic		4 000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2017	N	2			2							
Upbound	Domestic		4 799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2017	N	1			1							
Upbound	Domestic		5 835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2017	N	7					7					
Upbound	Domestic		4 000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2017	N	3			3							
Upbound	Domestic		4 000764	1637	200.0	35.0	9	9.0	1.7	7.3	199	2017	N	1			1							
Upbound	Domestic		4 922	1669	200.0	35.0	8	9.0	1.5	6.5	206	2017	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		5 774	1500	195.0	35.0	9	10.0	2.0	7.0	180	2017		1					1					
Upbound	Domestic		4 000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2017	N	1			1							
Upbound	Domestic		4 764	1611	200.0	35.0	7	9.0	1.7	5.3	225	2017	N	1			1							
Upbound	Domestic		5 800	1400	195.0	35.0	9	9.0	1.8	7.2	183	2017	N	1					1					
Upbound	Domestic		4 000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2017	N	1			1							
Upbound	Domestic		4 823	2743	200.0	35.0	8	14.0	1.5	6.5	241	2017	N	1			1							
Upbound	Domestic		5 2476	2500	310.0	50.0	3	9.0	2.5	0.5	230	2017		3									3	
Upbound	Domestic		5 1766	3164	290.0	54.0	2	9.0	1.8	0.2	180	2017		1									1	
Upbound	Domestic		3 000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2017	N	1		1								
Upbound	Domestic		4 000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2017	N	7			7							
Upbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2017	N	15			15							
Upbound	Domestic		4 000764	1590	200.0	35.0	12	9.0	3.0	9.0	9999	2017	N	1			1							
Upbound	Domestic		4 000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2017	N	5			5							
Upbound	Domestic		4 000705	2532	200.0	35.0	8	13.0	1.5	6.5	120	2017	N	2			2							
Upbound	Domestic		4 000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2017	N	3			3							
Upbound	Domestic		4 000764	2500	200.0	35.0	6	9.0	1.7	4.3	206	2017	N	1			1							
Upbound	Domestic		4 735	1885	200.0	35.0	8	10.0	1.4	6.6	176	2017	N	1			1							
Upbound	Domestic		4 000823	2000	200.0	35.0	8	12.0	2.0	6.0	100	2017	N	2			2							
Upbound	Domestic		3 258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2017		6		6								
Upbound	Domestic		4 764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2017	N	1							1			
Upbound	Domestic		5 001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2017	N	6									6	
Upbound	Domestic		5 2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2017	N	4									4	
Upbound	Domestic		4 000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2017	N	1			1							
Upbound	Domestic		4 000764	1910	200.0	35.0	11	13.0	3.0	8.0	210	2017	N	1			1							
Upbound	Domestic		4 823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2017	N	4			4							
Upbound	Domestic		4 764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2017	N	16			16							
Upbound	Domestic		4 000764	1650	200.0	35.0	10	12.0	1.5	8.5	208	2017	N	2			2							
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2017	N	3			3							
Upbound	Domestic		4 764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2017	N	1			1							
Upbound	Domestic		4 764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2017	N	1			1							
Upbound	Domestic		4 000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2017	N	1			1							
Upbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2017	N	3			3							
Upbound	Domestic		4 000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2017	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	5	10.0	3.0	2.0	9999	2017	N	1							1			
Upbound	Domestic		4 000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2017	N	1			1							
Upbound	Domestic		4 000745	1504	200.0	35.0	7	9.0	1.9	5.1	206	2017	N	1			1							
Upbound	Domestic		4 000705	1645	200.0	35.0	9	9.0	1.5	7.5	205	2017	N	1			1							
Upbound	Domestic		3 000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2017		17		17								
Upbound	Domestic		3 000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2017	N	1		1								
Upbound	Domestic		4 764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2017	N	1							1			
Upbound	Domestic		5 797	1700	147.6	52.0	2	9.0	2.0	0.0	185	2017		1									1	
Upbound	Domestic		3 000143	0	110.1	35.0	9	9.0	9.0	0.0	100	2017		9		9								
Upbound	Domestic		3 232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2017		1		1								
Upbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2017	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	9	12.0	2.0	7.0	130	2017	N	2			2							
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2017	N	4			4							
Upbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.6	6.4	130	2017	N	3			3							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2017	N	10			10							
Upbound	Domestic		4 764	1875	200.0	35.0	7	10.0	1.7	5.3	154	2017	N	1			1							
Upbound	Domestic		4 000764	2532	200.0	35.0	8	13.0	1.5	6.5	120	2017	N	14			14							
Upbound	Domestic		4 823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2017	N	2			2							
Upbound	Domestic		4 000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2017	N	3			3							
Upbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2017	N	4			4							
Upbound	Domestic		4 764	1990	200.0	35.0	7	9.0	1.5	5.5	170	2017	N	1			1							
Upbound	Domestic		4 680	2000	200.0	35.0	8	11.0	1.5	6.5	208	2017	N	3			3							
Upbound	Domestic		4 700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2017	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	130	2017	N	1			1							
Upbound	Domestic		4 000764	1651	200.0	35.0	2	12.0	1.8	0.2	206	2017	N	2							2			
Upbound	Domestic		4 000764	2200	200.0	35.0	2	12.0	2.0	0.0	214	2017	N	1							1			
Upbound	Domestic		5 2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	11									11	
Upbound	Domestic		4 000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2017	N	6			6							
Upbound	Domestic		4 823	2733	200.0	35.0	8	14.0	1.6	6.4	211	2017	N	1			1							
Upbound	Domestic		4 000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2017	N	3			3							
Upbound	Domestic		4 000745	1705	195.0	35.0	8	10.0	1.5	6.5	140	2017	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	9	9.0	1.7	7.3	206	2017	N	1			1							
Upbound	Domestic		4 764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2017	N	1			1							
Upbound	Domestic		4 000823	2880	200.0	35.0	6	12.0	2.0	4.0	9999	2017	N	1			1							
Upbound	Domestic		4 799	1886	200.0	35.0	9	10.0	1.4	7.6	149	2017	N	1			1							
Upbound	Domestic		3 216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2017		3		3								
Upbound	Domestic		4 000764	1653	200.0	35.0	2	9.0	2.0	0.0	210	2017	N	1							1			
Upbound	Domestic		3 62	999999	65.5	23.8	10	9.5	9.5	0.5	300	2017		1		1								
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2017	N	4			4							
Upbound	Domestic		4 764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2017	N	1			1							
Upbound	Domestic		4 000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2017	N	4			4							
Upbound	Domestic		4 000823	2295	200.0	35.0	9	12.0	1.5	7.5	190	2017	N	1			1							
Upbound	Domestic		4 964	2098	200.0	35.0	8	11.0	1.5	6.5	218	2017	N	1			1							
Upbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2017	N	2			2							
Upbound	Domestic		5 2016	4260	297.5	54.0	2	9.3	1.5	0.5	220	2017	N	2									2	
Upbound	Domestic		5 1839	3100	290.0	52.5	2	9.0	2.0	0.0	210	2017	N	1									1	
Upbound	Domestic		5 2013	3637	290.0	52.5	2	9.0	1.5	0.5	200	2017	N	1									1	
Upbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2017	N	10			10							
Upbound	Domestic		4 676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2017	N	4			4							
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2017	N	2			2							
Upbound	Domestic		4 764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2017	N	1			1							
Upbound	Domestic		4 764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2017	N	2			2							
Upbound	Domestic		4 802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2017	N	3			3							
Upbound	Domestic		4 764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2017	N	1			1							
Upbound	Domestic		4 856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2017	N	3			3							
Upbound	Domestic		4 000764	1855	200.0	35.0	8	10.0	1.7	6.3	130	2017	N	6			6							
Upbound	Domestic		4 000764	1504	200.0	35.0	11	11.0	1.9	9.1	206	2017	N	1			1							
Upbound	Domestic		4 000764	2500	200.0	35.0	7	10.0	3.0	4.0	210	2017	N	1			1							
Upbound	Domestic		5 750	1490	195.0	35.0	2	9.0	2.0	0.0	170	2017	N	2									2	
Upbound	Domestic		5 1619	3300	297.5	54.0	2	9.0	2.0	0.0	180	2017	N	6									6	
Upbound	Domestic		5 1958	4420	297.0	52.6	2	9.0	2.0	0.0	160	2017	N	1									1	
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2017	N	8			8							
Upbound	Domestic		4 000764	2200	200.0	35.0	5	12.0	2.0	3.0	165	2017	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2017	N	2			2							
Upbound	Domestic		4 000823	2469	200.0	35.0	7	12.0	2.0	5.0	165	2017	N	5			5							
Upbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2017	N	9			9							
Upbound	Domestic		4 823	2059	200.0	35.0	10	12.0	1.6	8.4	25	2017	N	1			1							
Upbound	Domestic		4 000764	1637	200.0	35.0	8	9.0	1.7	6.3	199	2017	N	1			1							
Upbound	Domestic		4 823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2017	N	1			1							
Upbound	Domestic		5 001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2017		2									2	
Upbound	Domestic		4 000745	1507	195.0	35.0	2	9.0	1.6	0.4	139	2017	N	2							2			
Upbound	Domestic		4 802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2017	N	4			4							
Upbound	Domestic		4 823	2469	200.0	35.0	8	12.0	1.6	6.4	250	2017	N	2			2							
Upbound	Domestic		4 764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2017	N	1			1							
Upbound	Domestic		4 823	1624	200.0	35.0	8	9.0	1.6	6.4	191	2017	N	1			1							
Upbound	Domestic		4 000823	2161	200.0	35.0	9	10.0	1.8	7.2	219	2017	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2017		1			1							
Upbound	Domestic		4 000823	1635	200.0	35.0	5	9.0	1.5	3.5	175	2017	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	9	14.0	1.6	7.4	250	2017	N	1			1							
Upbound	Domestic		4 705	1556	200.0	35.0	7	9.0	1.5	5.5	223	2017	N	1			1							
Upbound	Domestic		3 189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2017		3		3								
Upbound	Domestic		5 2688	2600	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	5									5	
Upbound	Domestic		5 1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2017	N	2									2	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2017	N	5			5							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	15.0	3.0	5.0	9999	2017	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2017	N	2			2							
Upbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2017	N	4			4							
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2017	N	22			22							
Upbound	Domestic	4	000823	2295	200.0	35.0	9	12.0	1.8	7.2	190	2017	N	1			1							
Upbound	Domestic	4	000609	2190	200.0	35.0	9	12.0	2.0	7.0	260	2017	N	1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2017	N	1			1							
Upbound	Domestic	4	764	2000	200.0	35.0	9	12.0	1.5	7.5	9999	2017	N	1			1							
Upbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2017	N	2			2							
Upbound	Domestic	5	814	2442	148.0	54.0	2	9.0	2.0	0.0	180	2017	N	4									4	
Upbound	Domestic	4	933	1527	195.0	35.0	2	12.0	1.5	0.5	199	2017	N	4							4			
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2017	N	7			7							
Upbound	Domestic	4	000764	1533	200.0	35.0	8	9.0	1.6	6.4	230	2017	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	250	2017	N	7			7							
Upbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2017	N	1			1							
Upbound	Domestic	4	000764	1854	200.0	35.0	9	10.0	1.6	7.4	196	2017	N	2			2							
Upbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2017	N	2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2017	N	1			1							
Upbound	Domestic	5	001754	3390	297.5	54.0	9	12.0	2.0	7.0	180	2017	N	2					2					
Upbound	Domestic	4	663	1673	200.0	35.0	8	9.0	1.6	6.4	140	2017	N	1			1							
Upbound	Domestic	3	000294	999999	114.0	35.0	11	11.0	11.0	0.0	420	2017		4		4								
Upbound	Domestic	3	348	999999	148.0	35.0	9	9.8	8.5	0.5	400	2017	N	1		1								
Upbound	Domestic	5	1850	3149	290.0	52.5	2	9.0	1.5	0.5	180	2017	N	1									1	
Upbound	Domestic	4	000705	1648	200.0	35.0	2	12.0	1.5	0.5	186	2017	N	3							3			
Upbound	Domestic	5	3084	2874	298.0	54.0	4	8.6	4.0	0.0	260	2017		10									10	
Upbound	Domestic	5	1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2017		3									3	
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2017	N	3									3	
Upbound	Domestic	4	000823	1750	200.0	35.0	7	10.0	1.7	5.3	140	2017	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2017	N	5			5							
Upbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2017	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2017	N	8			8							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2017	N	4			4							
Upbound	Domestic	4	764	1422	200.0	35.0	5	8.0	1.6	3.4	165	2017	N	2			2							
Upbound	Domestic	3	199	999999	150.2	44.2	10	10.8	9.3	0.7	430	2017		1		1								
Upbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2017	N	1							1			
Upbound	Domestic	4	862	1736	195.0	35.0	2	10.0	2.0	0.0	192	2017	N	1							1			
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2017	N	5			5							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2017	N	8			8							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2017	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	12.0	1.8	5.2	210	2017	N	1			1							
Upbound	Domestic	4	000764	1615	200.0	35.0	11	11.0	1.8	9.2	170	2017	N	1			1							
Upbound	Domestic	4	000764	2085	200.0	35.0	10	12.0	1.5	8.5	240	2017	N	1			1							
Upbound	Domestic	5	835	1451	195.0	35.0	9	9.0	1.1	7.9	136	2017	N	3					3					
Upbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2017	N	1							1			
Upbound	Domestic	5	1619	4465	297.5	54.0	2	12.0	2.0	0.0	220	2017		4									4	
Upbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017		1		1								
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2017		1									1	
Upbound	Domestic	5	001151	3275	175.0	54.0	2	9.0	1.5	0.5	164	2017	N	2									2	
Upbound	Domestic	5	3084	2874	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	12									12	
Upbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2017	N	2		2								
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	225	2017	N	4			4							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2017	N	3			3							
Upbound	Domestic	4	000823	2161	200.0	35.0	7	12.0	1.8	5.2	219	2017	N	1			1							
Upbound	Domestic	4	688	1677	200.0	35.0	9	9.0	1.5	7.5	210	2017	N	1			1							
Upbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2017	N	4			4							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2017	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2017	N	3			3							
Upbound	Domestic	4	764	1422	200.0	35.0	7	8.0	1.6	5.4	165	2017	N	2			2							
Upbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2017	N	1			1							
Upbound	Domestic	4	000705	2200	200.0	35.0	8	9.0	1.5	6.5	217	2017	N	1			1							
Upbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2017	N	2			2							
Upbound	Domestic	4	000764	1551	200.0	35.0	5	9.0	1.6	3.4	225	2017	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	10	14.0	2.0	8.0	191	2017	N	1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2017	N	2							2			
Upbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2017	N	1							1			
Upbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2017		1					1					
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2017	N	2									2	
Upbound	Domestic	5	1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2017	N	3									3	
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2017	N	1			1							
Upbound	Domestic	4	000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2017	N	2			2							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2017	N	7			7							
Upbound	Domestic	4	000687	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2017	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2017	N	1			1							
Upbound	Domestic	4	000823	1933	200.0	35.0	8	12.0	2.0	6.0	215	2017	N	2			2							
Upbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2017	N	1			1							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2017	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	5	11.0	1.7	3.3	223	2017	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	214	2017	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2017	N	2			2							
Upbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2017	N	1			1							
Upbound	Domestic	3	634	999999	145.0	48.0	9	10.0	9.0	0.0	426	2017	N	4		4								
Upbound	Domestic	3	000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2017		7		7								
Upbound	Domestic	5	001619	4857	297.5	54.0	2	11.0	2.0	0.0	135	2017	N	1									1	
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2017	N	7									7	
Upbound	Domestic	4	000823	1536	200.0	35.0	8	9.0	1.7	6.3	140	2017	N	2			2							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	1.6	6.4	220	2017	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2017	N	9			9							
Upbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2017	N	5			5							
Upbound	Domestic	4	000823	1633	200.0	35.0	8	9.0	1.6	6.4	180	2017	N	1			1							
Upbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2017	N	2			2							
Upbound	Domestic	4	000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2017	N	1			1							
Upbound	Domestic	4	000687	1535	200.0	35.0	8	9.0	1.5	6.5	217	2017	N	1			1							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2017	N	1			1							
Upbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2017	N	1			1							
Upbound	Domestic	4	705	1629	200.0	35.0	9	9.0	1.5	7.5	231	2017	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.5	6.5	190	2017	N	1			1							
Upbound	Domestic	5	2688	2600	298.0	54.0	4	8.6	4.0	0.0	260	2017		4									4	
Upbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2017	N	1		1								
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2017	N	1							1			
Upbound	Domestic	4	000764	2200	200.0	35.0	7	12.0	2.0	5.0	165	2017	N	1			1							
Upbound	Domestic	4	802	2537	195.0	35.0	6	14.0	1.7	4.3	211	2017	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2017	N	3			3							
Upbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2017		3		3								
Upbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2017		4									4	
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2017		3									3	
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2017	N	6		6								
Upbound	Domestic	5	1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2017	N	2									2	
Upbound	Domestic	4	000764	2131	200.0	35.0	2	13.0	1.9	0.1	206	2017	N	1							1			
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2017	N	1			1							
Upbound	Domestic	4	000823	2292	200.0	35.0	9	12.0	2.0	7.0	250	2017	N	2			2							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2017	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	165	2017	N	5			5							
Upbound	Domestic	4	000764	2085	200.0	35.0	9	13.0	1.5	7.5	240	2017	N	4			4							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2017	N	21			21							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	1506	200.0	35.0	12	11.0	1.8	10.2	120	2017	N	1			1							
Upbound	Domestic	4	783	1665	200.0	35.0	8	9.0	2.0	6.0	190	2017	N	2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	9999	2017	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	6	9.0	1.4	4.6	165	2017	N	1			1							
Upbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2017	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2017	N	1			1							
Upbound	Domestic	4	000823	2500	200.0	35.0	8	12.0	2.0	6.0	9999	2017	N	2			2							
Upbound	Domestic	5	814	2442	148.0	54.0	2	9.0	2.0	0.0	180	2017		4									4	
Upbound	Domestic	3	000133	444	110.0	32.0	8	10.3	8.0	0.0	450	2017	N	1		1								
Upbound	Domestic	3	000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2017	N	7		7								
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2017	N	3			3							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2017	N	6			6							
Upbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2017	N	1			1							
Upbound	Domestic	4	000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2017	N	1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2017	N	1			1							
Upbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2017	N	2			2							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2017	N	2			2							
Upbound	Domestic	4	000764	1506	200.0	35.0	12	11.0	1.8	10.2	206	2017	N	1			1							
Upbound	Domestic	4	823	2750	200.0	35.0	8	14.0	1.5	6.5	215	2017	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	8	12.0	2.0	6.0	140	2017	N	1			1							
Upbound	Domestic	4	729	1883	200.0	35.0	8	10.0	1.5	6.5	176	2017	N	1			1							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2017	N	2			2							
Upbound	Domestic	5	1863	4127	290.0	52.5	2	11.0	2.0	0.0	200	2017	N	1									1	
Upbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2017	N	1							1			
Upbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2017	N	9			9							
Upbound	Domestic	4	000764	1553	200.0	35.0	9	9.0	1.6	7.4	130	2017	N	2			2							
Upbound	Domestic	4	823	2059	200.0	35.0	6	8.0	1.6	4.4	25	2017	N	4			4							
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2017	N	3			3							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2017	N	4			4							
Upbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2017	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2017	N	1			1							
Upbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2017	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2017	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2017	N	1			1							
Upbound	Domestic	5	1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2017		2									2	
Upbound	Domestic	4	000764	1600	200.0	35.0	11	11.0	1.4	9.6	215	2017	N	1			1							
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2017	N	20			20							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2017	N	33			33							
Upbound	Domestic	4	000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2017	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	5	11.0	1.7	3.3	234	2017	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2017	N	4			4							
Upbound	Domestic	4	802	2544	195.0	35.0	7	14.0	1.7	5.3	210	2017	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2017	N	7			7							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2017	N	2			2							
Upbound	Domestic	4	745	1916	195.0	35.0	7	11.0	1.5	5.5	149	2017	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2017	N	3			3							
Upbound	Domestic	4	000764	1910	200.0	35.0	8	9.0	2.0	6.0	195	2017	N	1			1							
Upbound	Domestic	5	788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2017	N	1					1					
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	220	2017	N	2			2							
Upbound	Domestic	4	000764	1854	200.0	35.0	9	10.0	1.6	7.4	130	2017	N	1			1							
Upbound	Domestic	3	108	999999	75.0	24.0	9	8.6	8.0	1.0	425	2017		21		21								
Upbound	Domestic	5	1804	5412	297.5	54.0	2	9.0	2.0	0.0	180	2017	N	2									2	
Upbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	230	2017	N	2							2			
Upbound	Domestic	4	933	1674	250.0	54.0	2	11.0	1.5	0.5	177	2017	N	3							3			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2017	N	4			4							
Upbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2017	N	1			1							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2017	N	13			13							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2017	N	3			3							
Upbound	Domestic	4	764	1542	200.0	35.0	7	9.0	1.6	5.4	160	2017	N	2			2							
Upbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2017	N	1			1							
Upbound	Domestic	4	823	2500	200.0	35.0	9	13.0	2.0	7.0	250	2017	N	1			1							
Upbound	Domestic	4	000823	2410	200.0	35.0	9	14.0	1.5	7.5	120	2017	N	1			1							
Upbound	Domestic	4	000823	2604	200.0	35.0	8	14.0	1.7	6.3	256	2017	N	2			2							
Upbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2017	N	1							1			
Upbound	Domestic	5	1619	4465	297.5	54.0	2	12.0	2.0	0.0	220	2017	N	4									4	
Upbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	255	2017	N	2			2							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2017	N	3			3							
Upbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2017	N	3			3							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	5			5							
Upbound	Domestic	4	000764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2017	N	19			19							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	2.0	5.0	9999	2017	N	3			3							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	9999	2017	N	1			1							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2017	N	3			3							
Upbound	Domestic	4	190	541	110.0	30.0	7	7.0	1.0	6.0	70	2017	N	1			1							
Upbound	Domestic	5	1092	2100	175.0	54.0	1	8.5	1.3	-0.3	180	2017		1									1	
Upbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	9999	2017	N	2							2			
Upbound	Domestic	5	000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2017	N	3									3	
Upbound	Domestic	4	705	1684	250.0	54.0	2	11.0	1.5	0.5	200	2017	N	1							1			
Upbound	Domestic	4	000764	1506	200.0	35.0	2	12.0	1.8	0.2	206	2017	N	1							1			
Upbound	Domestic	5	2082	5386	297.5	54.0	2	10.8	2.0	0.0	197	2017		1									1	
Upbound	Domestic	4	1619	3612	297.5	54.0	2	9.0	2.0	0.0	200	2017	N	1							1			
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	6			6							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2017	N	6			6							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2017	N	24			24							
Upbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	186	2017	N	3			3							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2017	N	1			1							
Upbound	Domestic	4	764	1504	200.0	35.0	9	9.0	1.5	7.5	189	2017	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2017	N	1			1							
Upbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2017	N	1			1							
Upbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2017	N	3			3							
Upbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2017	N	2			2							
Upbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2017	N	1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2017	N	1			1							
Upbound	Domestic	4	764	1612	200.0	35.0	8	9.0	1.5	6.5	189	2017	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	255	2017	N	1			1							
Upbound	Domestic	4	823	2469	200.0	35.0	9	14.0	2.0	7.0	191	2017	N	2			2							
Upbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2017	N	1			1							
Upbound	Domestic	4	705	2002	200.0	35.0	2	9.0	1.5	0.5	190	2017	N	1							1			
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2017		3									3	
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2017		2		2								
Upbound	Domestic	5	1724	3300	297.6	54.1	2	10.0	2.0	0.0	180	2017	N	5									5	
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2017	N	5									5	
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2017	N	1									1	
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2017	N	4			4							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2017	N	4			4							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2017	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2017	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	3			3							
Upbound	Domestic	4	000823	2468	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	2			2							
Upbound	Domestic	4	705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2017	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	11.0	1.6	7.4	210	2017	N	1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	4	9.0	1.7	2.3	206	2017	N	1			1							
Upbound	Domestic	4	823	1842	200.0	35.0	9	10.0	1.8	7.2	210	2017	N	1			1							
Upbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2017	N	1							1			
Upbound	Domestic	5	1791	3351	297.6	54.1	2	9.3	2.3	-0.3	238	2017	N	1									1	

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic		3 258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017	N	14		14								
Upbound	Domestic		5 001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2017	N	1									1	
Upbound	Domestic		5 001841	3200	290.0	54.0	2	10.0	2.0	0.0	220	2017	N	1									1	
Upbound	Domestic		4 764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2017	N	22			22							
Upbound	Domestic		4 000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2017	N	2			2							
Upbound	Domestic		4 000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2017	N	1			1							
Upbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2017	N	3			3							
Upbound	Domestic		4 764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2017	N	2			2							
Upbound	Domestic		4 960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2017	N	2			2							
Upbound	Domestic		4 764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2017	N	2			2							
Upbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2017	N	1			1							
Upbound	Domestic		4 764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2017	N	1			1							
Upbound	Domestic		4 000764	2090	200.0	35.0	9	11.0	1.8	7.2	170	2017	N	1			1							
Upbound	Domestic		4 745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2017	N	1			1							
Upbound	Domestic		4 694	1728	195.0	35.0	8	10.0	1.6	6.4	176	2017	N	1			1							
Upbound	Domestic		4 000764	1700	200.0	35.0	6	9.0	1.9	4.1	206	2017	N	1			1							
Upbound	Domestic		4 600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2017	N	1							1			
Upbound	Domestic		3 216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2017	N	5		5								
Upbound	Domestic		4 000764	2292	200.0	35.0	5	12.0	2.0	3.0	9999	2017	N	1			1							
Upbound	Domestic		4 000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2017	N	1			1							
Upbound	Domestic		4 764	1744	200.0	35.0	9	10.0	1.7	7.3	209	2017	N	1			1							
Upbound	Domestic		5 000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2017	N	3					3					
Upbound	Domestic		4 000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2017	N	1			1							
Upbound	Domestic		4 000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2017	N	9							9			
Upbound	Domestic		4 764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2017	N	3			3							
Upbound	Domestic		4 823	1750	200.0	35.0	8	10.0	1.6	6.4	155	2017	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	6	10.0	3.0	3.0	9999	2017	N	2			2							
Upbound	Domestic		4 705	1578	200.0	35.0	7	9.0	1.5	5.5	180	2017	N	1			1							
Upbound	Domestic		4 823	1627	200.0	35.0	14	9.0	1.8	12.2	230	2017	N	1			1							
Upbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2017	N	2			2							
Upbound	Domestic		3 000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2017		27		27								
Upbound	Domestic		4 823	2600	200.0	35.0	2	14.0	1.7	0.3	231	2017	N	1							1			
Upbound	Domestic		3 000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2017	N	6		6								
Upbound	Domestic		5 1639	3000	297.5	52.5	2	12.0	2.0	0.0	180	2017	N	1									1	
Upbound	Domestic		4 705	1578	200.0	35.0	4	9.0	1.5	2.5	180	2017	N	1			1							
Upbound	Domestic		4 000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2017	N	4			4							
Upbound	Domestic		4 000687	1534	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	1			1							
Upbound	Domestic		4 000764	2300	200.0	35.0	7	9.0	1.4	5.6	165	2017	N	1			1							
Upbound	Domestic		4 705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2017	N	1			1							
Upbound	Domestic		4 000764	1541	200.0	35.0	7	9.0	1.8	5.2	225	2017	N	1			1							
Upbound	Domestic		3 205	999999	110.0	34.0	10	8.0	8.0	2.0	440	2017	N	3		3								
Upbound	Domestic		5 001623	32000	297.7	54.1	2	9.0	2.0	0.0	180	2017		4									4	
Upbound	Domestic		4 705	1650	200.0	35.0	2	12.0	1.5	0.5	195	2017	N	1							1			
Upbound	Domestic		4 000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2017	N	2							2			
Upbound	Domestic		5 2476	2500	310.0	50.0	3	9.0	2.5	0.5	230	2017	N	2									2	
Upbound	Domestic		5 1619	4054	297.0	54.0	2	12.0	2.0	0.0	170	2017	N	1									1	
Upbound	Domestic		4 705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2017	N	1							1			
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	9999	2017	N	2			2							
Upbound	Domestic		4 000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2017	N	1			1							
Upbound	Domestic		4 772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2017	N	7			7							
Upbound	Domestic		4 764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2017	N	5			5							
Upbound	Domestic		4 000705	1618	200.0	35.0	8	9.0	1.6	6.4	210	2017	N	1			1							
Upbound	Domestic		4 000882	2646	200.0	35.0	4	9.0	2.0	2.0	9999	2017	N	1							1			
Upbound	Domestic		4 764	1657	200.0	35.0	9	9.0	1.5	7.5	160	2017	N	1			1							
Upbound	Domestic		4 000764	1652	200.0	35.0	9	9.0	2.0	7.0	215	2017	N	1			1							
Upbound	Domestic		5 001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2017		2									2	
Upbound	Domestic		5 001650	3800	297.0	52.0	2	9.0	1.8	0.2	140	2017		1									1	
Upbound	Domestic		5 001754	3390	297.5	54.0	2	11.0	2.0	0.0	180	2017	N	1									1	
Upbound	Domestic		4 000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2017	N	2							2			
Upbound	Domestic		5 1400	4196	297.0	54.0	2	12.0	2.0	0.0	200	2017	N	1									1	
Upbound	Domestic		4 000823	1838	200.0	35.0	8	10.0	1.7	6.3	191	2017	N	1			1							
Upbound	Domestic		4 000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2017	N	3			3							
Upbound	Domestic		4 000823	2058	200.0	35.0	11	14.0	2.0	9.0	9999	2017	N	1			1							
Upbound	Domestic		4 000823	2292	200.0	35.0	8	12.0	2.0	6.0	250	2017	N	2			2							
Upbound	Domestic		4 000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2017	N	1			1							
Upbound	Domestic		4 823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2017	N	1			1							
Upbound	Domestic		3 634	999999	145.0	48.0	9	9.0	8.6	0.4	426	2017	N	2		2								
Upbound	Domestic		3 199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2017		5		5								
Upbound	Domestic		4 823	2733	200.0	35.0	2	14.0	1.5	0.5	241	2017	N	1							1			
Upbound	Domestic		5 1766	3164	290.0	54.0	2	9.0	1.8	0.2	180	2017	N	3									3	
Upbound	Domestic		5 1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2017	N	3									3	
Upbound	Domestic		4 000823	2469	200.0	35.0	7	13.0	2.0	5.0	218	2017	N	2			2							
Upbound	Domestic		4 000823	1600	200.0	35.0	8	9.0	1.5	6.5	9999	2017	N	1			1							
Upbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2017	N	2			2							
Upbound	Domestic		4 000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2017	N	7			7							
Upbound	Domestic		4 772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2017	N	4			4							
Upbound	Domestic		4 000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2017	N	1			1							
Upbound	Domestic		4 000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2017	N	1			1							
Upbound	Domestic		4 000719	1553	200.0	35.0	4	9.0	2.0	2.0	130	2017	N	1							1			
Upbound	Domestic		4 823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2017	N	2			2							
Upbound	Domestic		3 000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2017		30		30								
Upbound	Domestic		4 823	2059	200.0	35.0	2	14.0	1.6	0.4	25	2017	N	3							3			
Upbound	Domestic		5 1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2017		5									5	
Upbound	Domestic		4 000764	1651	200.0	35.0	2	9.0	1.6	0.4	9999	2017	N	1							1			
Upbound	Domestic		4 823	2059	200.0	35.0	2	8.0	1.6	0.4	25	2017	N	1							1			
Upbound	Domestic		5 1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2017	N	1									1	
Upbound	Domestic		4 687	1722	195.0	35.0	9	10.0	1.6	7.4	205	2017	N	1			1							
Upbound	Domestic		4 745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2017	N	17			17							
Upbound	Domestic		4 802	2110	195.0	35.0	8	12.0	1.8	6.2	234	2017	N	1			1							
Upbound	Domestic		4 000764	1536	200.0	35.0	9	9.0	1.8	7.2	225	2017	N	1			1							
Upbound	Domestic		4 000764	2090	200.0	35.0	10	12.0	1.8	8.2	170	2017	N	2			2							
Upbound	Domestic		4 000823	2792	200.0	35.0	7	12.0	1.7	5.3	250	2017	N	2			2							
Upbound	Domestic		4 688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2017	N	1			1							
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2017	N	2			2							
Upbound	Domestic		4 823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2017	N	1			1							
Upbound	Domestic		4 764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2017	N	1			1							
Upbound	Domestic		4 764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2017	N	11			11							
Upbound	Domestic		4 745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2017	N	6			6							
Upbound	Domestic		4 823	2161	200.0	35.0	8	12.0	1.8	6.2	224	2017	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2017	N	14			14							
Upbound	Domestic		4 823	2400	200.0	35.0	9	13.2	1.5	7.5	190	2017	N	1			1							
Upbound	Domestic		4 764	2100	200.0	35.0	8	12.0	1.5	6.5	208	2017	N	2			2							
Upbound	Domestic		4 764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2017	N	3			3							
Upbound	Domestic		4 000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2017	N	1			1							
Upbound	Domestic		4 823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2017	N	2			2							
Upbound	Domestic		4 000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2017	N	4			4							
Upbound	Domestic		4 823	1751	200.0	35.0	9	10.0	1.7	7.3	190	2017	N	1			1							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2017	N	1			1							
Upbound	Domestic		4 856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2017	N	1			1							
Upbound	Domestic		4 696	1643	200.0	35.0	8	9.0	1.5	6.5	192	2017	N	1			1							
Upbound	Domestic		4 000745	1497	195.0	35.0	7	9.0	1.6	5.4	130	2017	N	1			1							
Upbound	Domestic		5 2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2017		3									3	
Upbound	Domestic		4 000764	1506	200.0	35.0	2	11.0	1.8	0.2	206	2017	N	2							2			
Upbound	Domestic		5 1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2017	N	1									1	
Upbound	Domestic		3 81	999999	100.0	38.0	10	13.7	13.7	-3.7	360	2017	N	1		1								
Upbound	Domestic		4 000329	1500	140.0	40.0	3	3.0	2.0	1.0	70	2017	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2017	N	18			18							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2017	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	191	2017	N	1			1							
Upbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	3			3							
Upbound	Domestic	4	000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2017	N	2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	11	13.0	1.9	9.1	206	2017	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2017	N	1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2017	N	1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2017		17		17								
Upbound	Domestic	5	2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2017		6									6	
Upbound	Domestic	5	001455	3200	295.0	54.0	2	10.0	2.0	0.0	170	2017		1									1	
Upbound	Domestic	5	2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	6									6	
Upbound	Domestic	5	1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2017	N	3									3	
Upbound	Domestic	5	2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2017	N	3									3	
Upbound	Domestic	4	933	1527	195.0	35.0	2	10.0	1.5	0.5	199	2017	N	1							1			
Upbound	Domestic	5	001619	3581	297.5	54.0	2	9.0	2.0	0.0	200	2017	N	2									2	
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	1.6	6.4	220	2017	N	2			2							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	234	2017	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2017	N	10			10							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2017	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	11.0	2.0	6.0	225	2017	N	2			2							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2017	N	7			7							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2017	N	3			3							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2017	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2017	N	2			2							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	180	2017	N	1			1							
Upbound	Domestic	5	000735	1521	200.0	35.0	12	12.5	2.0	10.0	201	2017	N	1					1					
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2017	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	194	2017	N	1			1							
Upbound	Domestic	4	764	1666	200.0	35.0	8	9.0	1.5	6.5	170	2017	N	1			1							
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017		18		18								
Upbound	Domestic	4	000764	2090	200.0	35.0	2	10.0	1.8	0.2	170	2017	N	1							1			
Upbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2017		1									1	
Upbound	Domestic	4	000764	2406	200.0	35.0	2	13.0	1.6	0.4	120	2017	N	1							1			
Upbound	Domestic	5	001411	2396	200.0	52.6	2	9.0	1.8	0.2	210	2017	N	1									1	
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2017	N	8			8							
Upbound	Domestic	4	000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2017	N	5			5							
Upbound	Domestic	4	705	1889	200.0	35.0	8	10.0	1.4	6.6	189	2017	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	3			3							
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2017	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2017	N	2			2							
Upbound	Domestic	4	764	1537	200.0	35.0	8	9.0	1.8	6.2	225	2017	N	1			1							
Upbound	Domestic	3	000143	477	110.0	35.0	10	10.0	2.0	8.0	9999	2017		8		8								
Upbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	190	2017	N	1							1			
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2017	N	4									4	
Upbound	Domestic	4	764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2017	N	7			7							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2017	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	7	9.0	1.6	5.4	165	2017	N	1			1							
Upbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2017	N	15			15							
Upbound	Domestic	4	000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2017	N	9			9							
Upbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2017	N	1							1			
Upbound	Domestic	4	000764	2500	200.0	35.0	6	9.0	1.6	4.4	9999	2017	N	1			1							
Upbound	Domestic	4	000764	1620	200.0	35.0	11	9.0	2.0	9.0	9999	2017	N	1			1							
Upbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2017		18		18								
Upbound	Domestic	5	001151	3275	175.0	54.0	2	9.0	1.5	0.5	164	2017		5									5	
Upbound	Domestic	5	2380	2500	300.0	50.0	2	9.0	2.5	-0.5	220	2017	N	1									1	
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2017	N	29			29							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2017	N	30			30							
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2017	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2017	N	25			25							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2017	N	3			3							
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2017	N	5			5							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2017	N	5			5							
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2017	N	5			5							
Upbound	Domestic	4	000719	1665	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2017	N	1			1							
Upbound	Domestic	5	774	1500	195.0	35.0	8	10.0	2.0	6.0	180	2017		1					1					
Upbound	Domestic	4	000764	2500	200.0	35.0	9	9.0	1.6	7.4	9999	2017	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2017	N	1			1							
Upbound	Domestic	4	823	2194	200.0	35.0	10	13.0	1.4	8.6	25	2017	N	1			1							
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2017		2									2	
Upbound	Domestic	4	000764	2528	200.0	35.0	2	13.0	1.5	0.5	155	2017	N	1							1			
Upbound	Domestic	5	001623	32000	297.7	54.1	2	9.0	2.0	0.0	180	2017	N	6									6	
Upbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2017	N	1							1			
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2017	N	1		1								
Upbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.6	0.4	210	2017	N	2							2			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	250	2017	N	4			4							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	10			10							
Upbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2017	N	3			3							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2017	N	8			8							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2017	N	4			4							
Upbound	Domestic	4	823	2194	200.0	35.0	6	8.0	1.4	4.6	25	2017	N	9			9							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	8			8							
Upbound	Domestic	4	000705	1650	200.0	35.0	9	10.0	1.5	7.5	208	2017	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2017	N	3			3							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2017	N	3			3							
Upbound	Domestic	4	000764	1855	200.0	35.0	9	10.0	1.7	7.3	130	2017	N	2			2							
Upbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2017	N	2					2					
Upbound	Domestic	4	687	1500	195.0	35.0	8	12.0	2.0	6.0	149	2017	N	1			1							
Upbound	Domestic	4	000823	1534	200.0	35.0	7	9.0	1.7	5.3	235	2017	N	1			1							
Upbound	Domestic	4	000705	1544	200.0	35.0	6	9.0	1.5	4.5	135	2017	N	1			1							
Upbound	Domestic	5	773	1489	195.0	35.0	8	9.0	1.3	6.7	160	2017	N	1					1					
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2017		18		18								
Upbound	Domestic	4	000764	2468	200.0	35.0	2	12.0	1.5	0.5	208	2017	N	1							1			
Upbound	Domestic	5	2700	2500	281.0	50.0	3	9.0	2.5	0.5	230	2017		4									4	
Upbound	Domestic	4	000764	1965	200.0	35.0	2	13.0	1.6	0.4	240	2017	N	5							5			
Upbound	Domestic	5	1619	3300	297.0	54.0	2	9.0	2.0	0.0	180	2017	N	17									17	
Upbound	Domestic	4	745	1916	195.0	35.0	2	11.0	1.5	0.5	149	2017	N	1							1			
Upbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2017	N	3			3							
Upbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2017	N	4			4							
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2017	N	5			5							
Upbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2017	N	6			6							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2017	N	2			2							
Upbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.7	8.3	195	2017	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2017	N	1			1							
Upbound	Domestic	4	705	1661	200.0	35.0	12	12.0	1.4	10.6	160	2017	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2017	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2017	N	1			1							
Upbound	Domestic	4	000764	2408	200.0	35.0	2	13.0	1.6	0.4	220	2017	N	1							1			
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2017	N	6			6							
Upbound	Domestic	4	706	1578	200.0	35.0	9	9.0	1.5	7.5	205	2017	N	1			1							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2017	N	11			11							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2017	N	6			6							
Upbound	Domestic	4	764	2513	200.0	35.0	9	13.0	1.8	7.2	180	2017	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	4			4							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2017	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2017	N	1			1							
Upbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2017		3			3							
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2017	N	1			1							
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2017	N	2			2							
Upbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	160	2017	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	140	2017	N	1			1							
Upbound	Domestic	4	000764	2532	200.0	35.0	2	13.0	1.5	0.5	120	2017	N	1							1			
Upbound	Domestic	5	1660	3200	297.6	54.1	2	9.0	2.0	0.0	180	2017	N	3									3	
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2017	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2017	N	4			4							
Upbound	Domestic	4	000719	1553	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	14	10.0	3.0	11.0	9999	2017	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2017	N	5			5							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	191	2017	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	10	12.0	1.5	8.5	165	2017	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2017	N	2			2							
Upbound	Domestic	5	886	886	200.0	35.0	8	9.0	1.9	6.1	125	2017	N	2					2					
Upbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2017	N	1			1							
Upbound	Domestic	3	000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2017		4		4								
Upbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2017		11		11								
Upbound	Domestic	5	1619	3300	297.0	54.0	2	9.0	2.0	0.0	180	2017		13									13	
Upbound	Domestic	3	265	999999	116.0	34.0	10	10.6	9.5	0.5	420	2017		1		1								
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2017	N	10			10							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2017	N	13			13							
Upbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.5	7.5	180	2017	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2017	N	2			2							
Upbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2017	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	10	11.0	1.9	8.1	206	2017	N	1			1							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	3			3							
Upbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2017	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	228	2017	N	3			3							
Upbound	Domestic	4	000823	2058	200.0	35.0	11	12.0	2.0	9.0	9999	2017	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2017	N	5			5							
Upbound	Domestic	4	687	1629	195.0	35.0	8	9.0	1.4	6.6	160	2017	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2017	N	3			3							
Upbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2017	N	1			1							
Upbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2017	N	1							1			
Upbound	Domestic	4	705	1652	200.0	35.0	2	9.0	1.4	0.6	194	2017	N	1							1			
Upbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2017	N	4			4							
Upbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2017	N	5			5							
Upbound	Domestic	4	000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2017	N	15			15							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2017	N	38			38							
Upbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2017	N	3			3							
Upbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2017	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.6	7.4	170	2017	N	2			2							
Upbound	Domestic	4	000764	1652	200.0	35.0	2	9.0	2.0	0.0	215	2017	N	1							1			
Upbound	Domestic	5	001619	3100	297.6	54.0	2	10.0	2.0	0.0	220	2017		3									3	
Upbound	Domestic	4	000609	2190	200.0	35.0	2	12.0	2.0	0.0	260	2017	N	1							1			
Upbound	Domestic	4	000823	1600	195.0	35.0	8	12.0	2.0	6.0	140	2017	N	4			4							
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2017	N	11			11							
Upbound	Domestic	4	000764	1541	200.0	35.0	7	9.0	1.6	5.4	143	2017	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	12.0	1.8	8.2	206	2017	N	3			3							
Upbound	Domestic	4	000764	1619	200.0	35.0	9	10.0	3.0	6.0	206	2017	N	2			2							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2017	N	1			1							
Upbound	Domestic	4	000764	1910	200.0	35.0	7	12.0	2.0	5.0	210	2017	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2017	N	1							1			
Upbound	Domestic	3	000195	999999	78.0	34.0	8	11.0	8.0	0.0	470	2017		1		1								
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2017	N	4			4							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2017	N	1			1							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2017	N	5			5							
Upbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2017	N	4			4							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2017	N	9			9							
Upbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2017	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	13.9	1.6	6.4	140	2017	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2017	N	3							3			
Upbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2017		2		2								
Upbound	Domestic	5	001411	2396	200.0	52.6	2	9.0	1.8	0.2	210	2017		1									1	
Upbound	Domestic	5	766	1500	200.0	35.0	2	9.0	2.0	0.0	170	2017	N	1									1	
Upbound	Domestic	4	823	2194	200.0	35.0	2	8.0	1.4	0.6	25	2017	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2017	N	36			36							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2017	N	35			35							
Upbound	Domestic	5	835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2017		2					2					
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2017	N	10			10							
Upbound	Domestic	4	823	1640	200.0	35.0	8	9.0	1.5	6.5	220	2017	N	1			1							
Upbound	Domestic	4	000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2017	N	3			3							
Upbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2017	N	3			3							
Upbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2017	N	1			1							
Upbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2017	N	1			1							
Upbound	Domestic	5	886	1400	195.1	35.1	9	8.6	2.2	6.8	185	2017	N	1					1					
Upbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2017	N	2			2							
Upbound	Domestic	5	1844	3619	297.6	54.1	2	9.3	1.9	0.1	275	2017	N	1									1	
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2017	N	31			31							
Upbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2017	N	3			3							
Upbound	Domestic	4	000823	2469	200.0	35.0	5	13.0	2.0	3.0	218	2017	N	1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2017	N	5			5							
Upbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	7			7							
Upbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2017	N	2			2							
Upbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2017	N	1			1							
Upbound	Domestic	4	823	2403	200.0	35.0	9	12.6	1.7	7.3	190	2017	N	1			1							
Upbound	Domestic	4	823	1623	200.0	35.0	8	9.0	1.7	6.3	160	2017	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	7	10.5	1.7	5.3	180	2017	N	1			1							
Upbound	Domestic	5	820	1422	195.0	35.0	8	9.0	1.1	6.9	194	2017	N	1					1					
Upbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2017	N	1			1							
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2017		3		3								
Upbound	Domestic	4	000764	2090	200.0	35.0	2	11.0	1.6	0.4	210	2017	N	1							1			
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2017	N	14			14							
Upbound	Domestic	4	000764	1600	200.0	35.0	5	9.0	1.6	3.4	165	2017	N	1			1							
Upbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	7			7							
Upbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	206	2017	N	1			1							
Upbound	Domestic	4	764	2098	200.0	35.0	7	11.0	1.5	5.5	218	2017	N	3			3							
Upbound	Domestic	4	745	1915	195.0	35.0	6	11.0	1.7	4.3	224	2017	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	13	13.0	1.9	11.1	206	2017	N	1			1							
Upbound	Domestic	4	823	2279	200.0	35.0	12	12.0	1.7	10.3	223	2017	N	1			1							
Upbound	Domestic	5	001754	3390	297.0	54.0	11	11.0	2.0	9.0	180	2017	N	1					1					
Upbound	Domestic	4	000764	1742	200.0	35.0	9	10.0	1.7	7.3	130	2017	N	1			1							
Upbound	Domestic	4	764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2017	N	1							1			
Upbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2017	N	7		7								
Upbound	Domestic	4	000700	2187	200.0	35.0	2	12.0	1.7	0.3	250	2017	N	2							2			
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2017	N	13			13							
Upbound	Domestic	4	000764	1510	200.0	35.0	8	12.0	1.8	6.2	210	2017	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2017	N	6			6							
Upbound	Domestic	4	000705	2406	200.0	35.0	8	13.0	1.6	6.4	120	2017	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2017	N	4			4							
Upbound	Domestic	4	000764	2077	200.0	35.0	10	10.0	1.5	8.5	215	2017	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 000764	1742	200.0	35.0	8	10.0	1.7	6.3	195	2017	N	1			1							
Upbound	Domestic		4 764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2017	N	1			1							
Upbound	Domestic		4 000764	2475	200.0	35.0	8	12.0	3.0	5.0	225	2017	N	1			1							
Upbound	Domestic		4 000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2017	N	1			1							
Upbound	Domestic		3 263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2017		3		3								
Upbound	Domestic		5 1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2017		3									3	
Upbound	Domestic		3 000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2017		1		1								
Upbound	Domestic		4 000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2017	N	1							1			
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2017	N	8			8							
Upbound	Domestic		4 000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2017	N	3			3							
Upbound	Domestic		4 823	1634	200.0	35.0	9	9.0	1.5	7.5	175	2017	N	1			1							
Upbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2017	N	3			3							
Upbound	Domestic		4 745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2017	N	2			2							
Upbound	Domestic		4 000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	1			1							
Upbound	Domestic		4 000706	1557	200.0	35.0	8	9.0	1.6	6.4	205	2017	N	1			1							
Upbound	Domestic		5 1958	3300	297.6	52.6	2	9.0	2.0	0.0	200	2017	N	1									1	
Upbound	Domestic		5 1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2017		1									1	
Upbound	Domestic		5 000705	1650	200.0	35.0	2	9.6	2.0	0.0	189	2017	N	3									3	
Upbound	Domestic		5 1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2017	N	10									10	
Upbound	Domestic		4 000764	1855	200.0	35.0	2	10.0	1.7	0.3	130	2017	N	2							2			
Upbound	Domestic		5 1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2017	N	6									6	
Upbound	Domestic		5 001619	3100	297.5	54.0	2	10.0	2.0	0.0	220	2017	N	1									1	
Upbound	Domestic		3 265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017	N	2		2								
Upbound	Domestic		4 000687	2061	195.0	35.0	8	12.0	1.6	6.4	9999	2017	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2017	N	1			1							
Upbound	Domestic		4 706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2017	N	8			8							
Upbound	Domestic		4 000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2017	N	1			1							
Upbound	Domestic		4 000823	2161	200.0	35.0	8	12.0	1.8	6.2	220	2017	N	1			1							
Upbound	Domestic		4 000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2017	N	2			2							
Upbound	Domestic		5 2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2017		3									3	
Upbound	Domestic		5 1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2017		4									4	
Upbound	Domestic		5 1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2017	N	4									4	
Upbound	Domestic		3 000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2017	N	6		6								
Upbound	Domestic		4 000745	1648	195.0	35.0	11	12.0	1.5	9.5	186	2017	N	2			2							
Upbound	Domestic		4 705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2017	N	2			2							
Upbound	Domestic		4 000764	2474	200.0	35.0	8	12.9	1.6	6.4	205	2017	N	2			2							
Upbound	Domestic		4 000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2017	N	2			2							
Upbound	Domestic		4 764	2098	200.0	35.0	4	11.0	1.5	2.5	218	2017	N	1			1							
Upbound	Domestic		4 676	1502	195.0	35.0	7	9.0	1.7	5.3	164	2017	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	9	12.0	1.6	7.4	250	2017	N	1			1							
Upbound	Domestic		4 705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2017	N	1			1							
Upbound	Domestic		5 1619	4298	297.5	54.0	2	12.0	2.0	0.0	220	2017		4									4	
Upbound	Domestic		5 001623	3200	297.7	54.1	2	9.0	2.0	0.0	180	2017		5									5	
Upbound	Domestic		4 000764	1636	200.0	35.0	2	9.0	1.7	0.3	199	2017	N	4							4			
Upbound	Domestic		3 194	999999	101.0	30.0	10	9.4	8.0	2.0	360	2017	N	1		1								
Upbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2017	N	1			1							
Upbound	Domestic		4 764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2017	N	7			7							
Upbound	Domestic		4 823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2017	N	3			3							
Upbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2017	N	5			5							
Upbound	Domestic		4 745	1914	195.0	35.0	7	11.0	1.7	5.3	223	2017	N	1			1							
Upbound	Domestic		4 000823	1750	200.0	35.0	7	10.0	1.7	5.3	219	2017	N	1			1							
Upbound	Domestic		4 000764	1651	200.0	35.0	9	9.0	1.5	7.5	215	2017	N	2			2							
Upbound	Domestic		4 823	1800	200.0	35.0	12	10.0	1.5	10.5	180	2017	N	1			1							
Upbound	Domestic		3 209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2017		2		2								
Upbound	Domestic		3 000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2017		4		4								
Upbound	Domestic		5 1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2017		3									3	
Upbound	Domestic		5 001623	3200	297.7	54.1	2	9.0	2.0	0.0	180	2017	N	7									7	
Upbound	Domestic		4 000823	2741	200.0	35.0	2	14.0	1.5	0.5	190	2017	N	1							1			
Upbound	Domestic		4 000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2017	N	17			17							
Upbound	Domestic		4 764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2017	N	3							3			
Upbound	Domestic		4 000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2017	N	8			8							
Upbound	Domestic		4 823	1640	200.0	35.0	8	9.0	1.5	6.5	235	2017	N	1			1							
Upbound	Domestic		4 823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2017	N	2			2							
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	1869	2017	N	1			1							
Upbound	Domestic		5 1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2017		9									9	
Upbound	Domestic		4 000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2017	N	13			13							
Upbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	1.5	5.5	175	2017	N	12			12							
Upbound	Domestic		4 856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2017	N	1			1							
Upbound	Domestic		4 745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2017	N	7			7							
Upbound	Domestic		4 705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2017	N	7			7							
Upbound	Domestic		4 000823	2880	200.0	35.0	7	12.0	2.0	5.0	9999	2017	N	2			2							
Upbound	Domestic		4 000764	1648	200.0	35.0	11	13.0	2.0	9.0	208	2017	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	2.0	6.0	250	2017	N	3			3							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2017	N	1			1							
Upbound	Domestic		4 764	1879	200.0	35.0	8	10.0	1.5	6.5	218	2017	N	1			1							
Upbound	Domestic		5 1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2017		2									2	
Upbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	250	2017	N	2							2			
Upbound	Domestic		4 933	1674	200.0	35.0	2	9.0	2.0	0.0	192	2017	N	2							2			
Upbound	Domestic		4 000764	2190	200.0	35.0	2	12.0	2.0	0.0	160	2017	N	1							1			
Upbound	Domestic		4 000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2017	N	2			2							
Upbound	Domestic		4 000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	11			11							
Upbound	Domestic		4 000764	1862	200.0	35.0	7	10.0	1.5	5.5	191	2017	N	1			1							
Upbound	Domestic		4 000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2017	N	3			3							
Upbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2017	N	3			3							
Upbound	Domestic		4 000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2017	N	2			2							
Upbound	Domestic		4 771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2017	N	1			1							
Upbound	Domestic		4 000764	1653	200.0	35.0	5	8.0	2.0	3.0	210	2017	N	1			1							
Upbound	Domestic		4 823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2017	N	1			1							
Upbound	Domestic		4 000764	1650	200.0	35.0	11	13.0	1.5	9.5	208	2017	N	1			1							
Upbound	Domestic		4 000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2017	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	6	12.0	1.8	4.2	210	2017	N	2			2							
Upbound	Domestic		5 2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2017		8									8	
Upbound	Domestic		5 1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2017		4									4	
Upbound	Domestic		4 000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2017	N	4							4			
Upbound	Domestic		4 682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2017	N	1			1							
Upbound	Domestic		4 000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2017	N	2			2							
Upbound	Domestic		4 764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2017	N	1			1							
Upbound	Domestic		4 764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2017	N	1			1							
Upbound	Domestic		4 823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2017	N	2			2							
Upbound	Domestic		5 835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2017	N	5					5					
Upbound	Domestic		5 835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2017	N	9					9					
Upbound	Domestic		4 564	1619	200.0	35.0	6	9.0	1.6	4.4	160	2017	N	1			1							
Upbound	Domestic		4 000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2017	N	6			6							
Upbound	Domestic		4 000745	2100	195.0	35.0	7	10.0	3.0	4.0	9999	2017	N	4			4							
Upbound	Domestic		4 705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2017	N	2			2							
Upbound	Domestic		4 687	1501	195.0	35.0	9	10.0	1.5	7.5	186	2017	N	1			1							
Upbound	Domestic		4 764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2017	N	2			2							
Upbound	Domestic		5 914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2017		4									4	
Upbound	Domestic		5 1619	3300	297.5	54.0	2	9.0	2.0	0.0	180	2017		3									3	
Upbound	Domestic		4 745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2017	N	4							4			
Upbound	Domestic		4 000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2017	N	1							1			
Upbound	Domestic		5 834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2017	N	2									2	
Upbound	Domestic		5 914	2800	147.5	52.5	2	13.0	2.0	0.0	180	2017	N	4									4	
Upbound	Domestic		5 1092	2100	175.0	54.0	1	8.5	1.3	-0.3	180	2017	N	1									1	
Upbound	Domestic		5 1673	1673	297.5	52.0	1	9.0	1.0	0.0	185	2017		1									1	
Upbound	Domestic		4 705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2017	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2017	N	12			12							
Upbound	Domestic	4	000745	1648	195.0	35.0	10	12.0	1.5	8.5	186	2017	N	1			1							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2017	N	3			3							
Upbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2017	N	1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2017	N	1			1							
Upbound	Domestic	4	823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2017	N	3			3							
Upbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2017	N	1			1							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	2			2							
Upbound	Domestic	4	000764	1700	200.0	35.0	7	9.0	1.9	5.1	206	2017	N	2			2							
Upbound	Domestic	4	000764	1742	200.0	35.0	8	10.0	1.7	6.3	130	2017	N	1			1							
Upbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2017	N	2			2							
Upbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2017	N	1			1							
Upbound	Domestic	4	856	1856	200.0	35.1	9	10.0	1.6	7.4	210	2017	N	1			1							
Upbound	Domestic	4	764	1554	200.0	35.0	9	9.0	1.5	7.5	170	2017	N	1			1							
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2017		3									3	
Upbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2017	N	1							1			
Upbound	Domestic	3	244	999999	120.0	35.0	7	7.5	7.0	0.0	160	2017	N	3		3								
Upbound	Domestic	4	000823	2058	200.0	35.0	9	12.0	2.0	7.0	9999	2017	N	1			1							
Upbound	Domestic	4	000609	2190	200.0	35.0	8	12.0	2.0	6.0	260	2017	N	1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2017	N	2			2							
Upbound	Domestic	4	000764	1651	200.0	35.0	12	13.0	1.9	10.1	206	2017	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2017	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	255	2017	N	2			2							
Upbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2017	N	1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	12	12.0	3.0	9.0	136	2017		1					1					
Upbound	Domestic	4	706	1578	200.0	35.0	6	9.0	1.5	4.5	205	2017	N	1			1							
Upbound	Domestic	3	000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2017		2		2								
Upbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2017	N	2							2			
Upbound	Domestic	5	1619	4298	297.5	54.0	2	12.0	2.0	0.0	220	2017	N	6									6	
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2017	N	27			27							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2017	N	4							4			
Upbound	Domestic	4	705	1653	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2017		5					5					
Upbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2017	N	4			4							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2017	N	10			10							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2017	N	2			2							
Upbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	10	12.0	1.8	8.2	140	2017	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	8	10.0	1.4	6.6	191	2017	N	1			1							
Upbound	Domestic	5	834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2017		4									4	
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2017		4									4	
Upbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2017	N	10							10			
Upbound	Domestic	4	000764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2017	N	1							1			
Upbound	Domestic	4	618	1728	195.0	35.0	9	10.0	1.5	7.5	206	2017	N	1			1							
Upbound	Domestic	5	001619	4857	297.5	54.0	9	11.0	2.0	7.0	135	2017	N	1					1					
Upbound	Domestic	4	705	1667	200.0	35.0	8	9.0	1.7	6.3	170	2017	N	1			1							
Upbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2017	N	8			8							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2017	N	5			5							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2017	N	1			1							
Upbound	Domestic	4	745	1914	195.0	35.0	6	11.0	1.7	4.3	223	2017	N	1			1							
Upbound	Domestic	4	000764	1765	200.0	35.0	9	11.0	2.0	7.0	165	2017	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2017	N	3			3							
Upbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2017	N	3			3							
Upbound	Domestic	4	000764	1657	200.0	35.0	11	9.0	3.0	8.0	9999	2017	N	1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2017	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2017	N	1			1							
Upbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2017	N	1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.6	0.4	211	2017	N	1							1			
Upbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2017	N	5		5								
Upbound	Domestic	4	862	1736	195.0	35.0	2	10.0	1.5	0.5	192	2017	N	1							1			
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2017	N	13			13							
Upbound	Domestic	4	764	2077	200.0	35.0	10	11.0	1.5	8.5	215	2017	N	2			2							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2017	N	8			8							
Upbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2017	N	1			1							
Upbound	Domestic	4	000764	1765	200.0	35.0	12	13.0	2.0	10.0	165	2017	N	2			2							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2017	N	4			4							
Upbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2017	N	2			2							
Upbound	Domestic	4	735	1422	200.0	35.0	8	8.0	2.0	6.0	165	2017	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	7	13.0	1.6	5.4	165	2017	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2017	N	2			2							
Upbound	Domestic	4	764	1640	200.0	35.0	9	9.0	1.5	7.5	225	2017	N	1			1							
Upbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2017	N	1			1							
Upbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2017	N	1			1							
Upbound	Domestic	5	1619	4196	297.5	54.0	2	12.0	2.0	0.0	170	2017	N	2									2	
Upbound	Domestic	4	000700	2290	200.0	35.0	2	12.0	1.6	0.4	250	2017	N	1							1			
Upbound	Domestic	4	764	1648	200.0	35.0	2	13.0	1.5	0.5	208	2017	N	1							1			
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	4			4							
Upbound	Domestic	4	000802	1600	195.0	35.0	8	12.0	2.0	6.0	140	2017	N	10			10							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2017	N	5			5							
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2017	N	7			7							
Upbound	Domestic	4	000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2017	N	2			2							
Upbound	Domestic	4	764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2017	N	1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2017	N	1			1							
Upbound	Domestic	4	000764	1625	200.0	35.0	13	9.0	3.0	10.0	9999	2017	N	3			3							
Upbound	Domestic	4	000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2017	N	1			1							
Upbound	Domestic	4	000764	1538	200.0	35.0	7	9.0	1.7	5.3	9999	2017	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	10.0	1.5	7.5	215	2017	N	1			1							
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2017		35		35								
Upbound	Domestic	3	000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2017		4		4								
Upbound	Domestic	5	730	1500	138.0	52.5	2	9.0	2.0	0.0	175	2017	N	1									1	
Upbound	Domestic	5	001619	3567	297.5	54.0	2	9.0	2.0	0.0	200	2017	N	1									1	
Upbound	Domestic	5	1993	3998	297.6	54.0	2	9.3	2.0	0.0	266	2017	N	1									1	
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	18				18						
Downbound	Domestic	4	000764	1637	200.0	35.0	9	9.0	1.7	7.3	199	2017	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2017	N	4				4						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	12.0	1.8	7.2	195	2017	N	2				2						
Downbound	Domestic	4	799	1886	200.0	35.0	9	10.0	1.5	7.5	150	2017	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2017	N	1				1						
Downbound	Domestic	4	000764	1615	200.0	35.0	9	10.0	1.8	7.2	170	2017	N	1				1						
Downbound	Domestic	5	1400	4196	297.0	54.0	9	12.0	2.0	7.0	200	2017	N	1						1				
Downbound	Domestic	5	001619	3567	297.5	54.0	8	9.0	2.0	6.0	200	2017	N	1						1				
Downbound	Domestic	4	823	1842	200.0	35.0	8	10.0	1.8	6.2	210	2017	N	1				1						
Downbound	Domestic	3	000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2017	N	1		1								
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2017	N	9				9						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2017	N	18				18						
Downbound	Domestic	5	1619	4465	297.5	54.0	12	12.0	2.0	10.0	220	2017		4						4				
Downbound	Domestic	5	1619	4298	297.5	54.0	12	12.0	2.0	10.0	220	2017		4						4				
Downbound	Domestic	4	705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2017	N	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	9	9.0	1.9	7.1	220	2017	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2017	N	1				1						
Downbound	Domestic	4	000764	1590	200.0	35.0	12	9.0	3.0	9.0	9999	2017	N	1				1						
Downbound	Domestic	5	2688	2800	298.0	54.0	8	8.6	4.0	4.0	260	2017	N	4						4				
Downbound	Domestic	4	000705	2532	200.0	35.0	8	13.0	1.5	6.5	120	2017	N	1				1						
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2017		7		7								
Downbound	Domestic	5	886	886	200.0	35.0	2	9.0	1.9	0.1	142	2017	N	1										1
Downbound	Domestic	4	000705	1618	200.0	35.0	2	9.0	1.6	0.4	210	2017	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2017	N	1								1		
Downbound	Domestic	4	000764	1935	200.0	35.0	2	12.0	1.8	0.2	195	2017	N	1								1		
Downbound	Domestic	4	000764	2500	200.0	35.0	2	9.0	1.6	0.4	9999	2017	N	1								1		
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2017	N	4			4							
Downbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2017	N	3			3							
Downbound	Domestic	4	000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2017	N	1			1							
Downbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	210	2017	N	1			1							
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2017	N	5			5							
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	2.0	7.0	165	2017	N	1			1							
Downbound	Domestic	5	001623	3200	297.7	54.1	9	9.0	2.0	7.0	180	2017		6						6				
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2017	N	1			1							
Downbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2017	N	2			2							
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2017	N	1			1							
Downbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2017	N	2			2							
Downbound	Domestic	5	1619	3300	297.0	54.0	5	9.0	2.0	3.0	180	2017	N	2						2				
Downbound	Domestic	4	000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2017	N	1			1							
Downbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2017		17		17								
Downbound	Domestic	4	706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2017	N	2								2		
Downbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2017	N	1		1								
Downbound	Domestic	3	000143	0	110.1	35.0	9	9.0	9.0	0.0	100	2017		7		7								
Downbound	Domestic	3	232	999999	110.0	32.0	9	8.6	7.5	1.5	350	2017		1		1								
Downbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.8	0.2	225	2017	N	1								1		
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2017	N	9			9							
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2017	N	1			1							
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2017	N	3			3							
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2017	N	9			9							
Downbound	Domestic	4	000764	1608	200.0	35.0	12	9.0	3.0	9.0	9999	2017	N	1			1							
Downbound	Domestic	4	705	2002	200.0	35.0	7	9.0	1.5	5.5	190	2017	N	1			1							
Downbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2017	N	2			2							
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2017	N	3			3							
Downbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2017	N	2			2							
Downbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	130	2017	N	1			1							
Downbound	Domestic	4	000764	2532	200.0	35.0	8	13.0	1.5	6.5	120	2017	N	7			7							
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2017	N	4			4							
Downbound	Domestic	4	764	1990	200.0	35.0	7	9.0	1.5	5.5	170	2017	N	1			1							
Downbound	Domestic	4	000764	1651	200.0	35.0	2	12.0	1.8	0.2	206	2017	N	2								2		
Downbound	Domestic	5	2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	1										1
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2017	N	2			2							
Downbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2017	N	1			1							
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.5	6.5	140	2017	N	1			1							
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2017	N	2			2							
Downbound	Domestic	4	000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2017	N	1			1							
Downbound	Domestic	5	2082	5386	297.5	54.0	9	10.8	2.0	7.0	197	2017	N	1						1				
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2017	N	17								17		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	225	2017	N	2								2		
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2017		3		3								
Downbound	Domestic	4	000764	1619	200.0	35.0	3	10.0	3.0	0.0	206	2017	N	1								1		
Downbound	Domestic	3	62	999999	65.5	23.8	10	9.5	9.5	0.5	300	2017		1		1								
Downbound	Domestic	4	000764	1653	200.0	35.0	2	9.0	2.0	0.0	210	2017	N	1								1		
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2017	N	2								2		
Downbound	Domestic	4	000764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2017	N	1								1		
Downbound	Domestic	4	000823	2295	200.0	35.0	9	12.0	1.5	7.5	190	2017	N	2			2							
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2017	N	7			7							
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2017	N	2			2							
Downbound	Domestic	4	823	1662	200.0	35.0	8	9.0	1.4	6.6	235	2017	N	1			1							
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2017	N	2			2							
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2017	N	1			1							
Downbound	Domestic	5	1619	3300	297.5	54.0	8	9.0	2.0	6.0	180	2017	N	4						4				
Downbound	Domestic	5	1766	3164	290.0	54.0	6	9.0	1.8	4.2	180	2017	N	2						2				
Downbound	Domestic	4	862	1736	195.0	35.0	9	10.0	2.0	7.0	192	2017	N	1			1							
Downbound	Domestic	4	705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2017	N	1			1							
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2017	N	1			1							
Downbound	Domestic	4	000764	2500	200.0	35.0	3	10.0	3.0	0.0	210	2017	N	1								1		
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2017	N	2			2							
Downbound	Domestic	4	000764	1765	200.0	35.0	12	11.0	2.0	10.0	165	2017	N	1			1							
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2017	N	10			10							
Downbound	Domestic	5	001623	32000	297.7	54.1	9	9.0	2.0	7.0	180	2017		3						3				
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2017	N	4			4							
Downbound	Domestic	4	764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2017	N	2			2							
Downbound	Domestic	4	764	1765	200.0	35.0	9	10.0	2.0	7.0	165	2017	N	1			1							
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2017	N	3			3							
Downbound	Domestic	4	764	2100	200.0	35.0	8	12.0	1.5	6.5	186	2017	N	1			1							
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2017	N	1			1							
Downbound	Domestic	5	1619	4465	297.5	54.0	6	12.0	2.0	4.0	220	2017	N	3						3				
Downbound	Domestic	4	000764	1855	200.0	35.0	8	10.0	1.7	6.3	130	2017	N	5			5							
Downbound	Domestic	5	000796	2388	147.6	54.0	10	10.0	2.0	8.0	170	2017	N	4						4				
Downbound	Domestic	5	1419	3000	230.0	54.0	10	10.0	2.0	8.0	170	2017	N	1						1				
Downbound	Domestic	5	001411	2396	200.0	52.6	9	9.0	1.8	7.2	210	2017	N	1						1				
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2017	N	9								9		
Downbound	Domestic	5	1619	3300	297.5	54.0	2	9.0	2.0	0.0	180	2017	N	1										1
Downbound	Domestic	4	823	1627	200.0	35.0	2	9.0	1.8	0.2	230	2017	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	1.7	1.3	160	2017	N	1								1		
Downbound	Domestic	4	764	1657	200.0	35.0	2	9.0	1.5	0.5	157	2017	N	1								1		
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	204	2017	N	2			2							
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2017	N	16			16							
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2017	N	11			11							
Downbound	Domestic	4	823	2059	200.0	35.0	10	12.0	1.6	8.4	25	2017	N	1			1							
Downbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2017	N	1			1							
Downbound	Domestic	5	001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2017		1						1				
Downbound	Domestic	5	1619	3300	297.0	54.0	9	9.0	2.0	7.0	180	2017	N	4						4				
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2017	N	1			1							
Downbound	Domestic	4	764	1537	200.0	35.0	2	9.0	1.8	0.2	225	2017	N	1								1		
Downbound	Domestic	5	886	886	200.0	35.0	2	9.0	1.9	0.1	125	2017	N	1										1
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	180	2017	N	2			2							
Downbound	Domestic	5	914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2017		4						4				
Downbound	Domestic	4	823	2469	200.0	35.0	8	12.0	1.6	6.4	250	2017	N	2			2							
Downbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2017	N	1			1							
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2017		1			1							
Downbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2017	N	1			1							
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2017	N	1			1							
Downbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2017		4		4								
Downbound	Domestic	4	823	2310	200.0	35.0	2	12.0	1.5	0.5	225	2017	N	3								3		
Downbound	Domestic	4	764	1611	200.0	35.0	2	9.0	1.7	0.3	225	2017	N	2								2		
Downbound	Domestic	4	000764	1637	200.0	35.0	2	9.0	1.7	0.3	199	2017	N	1								1		
Downbound	Domestic	5	2688	2600	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	1										1
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2017	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2017	N	7			7							
Downbound	Domestic	5	1922	4144	300.0	54.0	12	12.0	1.0	11.0	165	2017		5						5				
Downbound	Domestic	4	705	1650	200.0	35.0	12	12.0	1.5	10.5	195	2017	N	1			1							
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2017	N	23			23							
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2017	N	6			6							
Downbound	Domestic	4	000823	2295	200.0	35.0	9	12.0	1.8	7.2	190	2017	N	1			1							
Downbound	Domestic	4	000609	2190	200.0	35.0	9	12.0	2.0	7.0	260	2017	N	1			1							
Downbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2017	N	1			1							
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2017	N	25								25		
Downbound	Domestic	4	823	2400	200.0	35.0	2	13.2	1.5	0.5	190	2017	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1990	200.0	35.0	2	9.0	1.5	0.5	170	2017	N	1								1		
Downbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	160	2017	N	1										1
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2017	N	7				7						
Downbound	Domestic	4	000764	1533	200.0	35.0	8	9.0	1.6	6.4	230	2017	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	250	2017	N	12				12						
Downbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2017	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2017	N	7				7						
Downbound	Domestic	4	000764	1854	200.0	35.0	9	10.0	1.6	7.4	196	2017	N	2				2						
Downbound	Domestic	5	914	2800	147.5	52.5	12	13.0	2.0	10.0	180	2017		1						1				
Downbound	Domestic	4	000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2017	N	2				2						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2017	N	1				1						
Downbound	Domestic	4	663	1673	200.0	35.0	8	9.0	1.6	6.4	140	2017	N	1				1						
Downbound	Domestic	3	000294	999999	114.0	35.0	11	11.0	11.0	0.0	420	2017		5		5								
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	1.6	0.4	220	2017	N	1								1		
Downbound	Domestic	3	348	999999	148.0	35.0	9	9.8	8.5	0.5	400	2017	N	1		1								
Downbound	Domestic	4	000764	1504	200.0	35.0	2	11.0	1.9	0.1	206	2017	N	1								1		
Downbound	Domestic	4	823	2750	200.0	35.0	2	14.0	1.5	0.5	215	2017	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2017	N	6				6						
Downbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	196	2017	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	250	2017	N	4				4						
Downbound	Domestic	5	1619	3300	297.0	54.0	9	9.0	2.0	7.0	180	2017		15						15				
Downbound	Domestic	5	2688	2600	298.0	54.0	8	8.6	4.0	4.0	260	2017		1						1				
Downbound	Domestic	5	1863	4127	290.0	52.5	8	11.0	2.0	6.0	200	2017	N	1						1				
Downbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2017	N	7				7						
Downbound	Domestic	4	705	1663	200.0	35.0	8	9.0	1.5	6.5	223	2017	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2017	N	30								30		
Downbound	Domestic	3	199	999999	150.2	44.2	10	10.8	9.3	0.7	430	2017		1		1								
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2017	N	1								1		
Downbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2017	N	1		1								
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2017	N	4				4						
Downbound	Domestic	5	2840	2800	298.0	54.0	8	8.6	4.0	4.0	260	2017		1						1				
Downbound	Domestic	4	000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2017	N	2				2						
Downbound	Domestic	4	000764	2085	200.0	35.0	10	12.0	1.5	8.5	240	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	12.0	1.8	5.2	210	2017	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2017	N	1				1						
Downbound	Domestic	5	000796	2388	147.6	54.0	6	10.0	2.0	4.0	170	2017	N	0						0				
Downbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2017	N	1				1						
Downbound	Domestic	4	000764	1538	200.0	35.0	8	9.0	1.7	6.3	9999	2017	N	1				1						
Downbound	Domestic	4	764	1666	200.0	35.0	9	9.0	1.5	7.5	170	2017	N	1				1						
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2017	N	3								3		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	9.0	1.9	0.1	206	2017	N	3								3		
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017		1		1								
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2017	N	4								4		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2017	N	1								1		
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2017	N	1		1								
Downbound	Domestic	5	3084	2874	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	1										1
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	225	2017	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2017	N	4				4						
Downbound	Domestic	4	802	2110	200.0	35.0	9	12.0	1.8	7.2	234	2017	N	2				2						
Downbound	Domestic	5	1660	3400	297.6	54.1	9	9.0	2.0	7.0	180	2017		2						2				
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2017		4						4				
Downbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2017	N	3				3						
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2017	N	2				2						
Downbound	Domestic	5	1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2017		3						3				
Downbound	Domestic	5	1891	3100	281.7	54.0	9	9.0	2.0	7.0	180	2017	N	3						3				
Downbound	Domestic	5	001623	3200	297.7	54.1	5	9.0	2.0	3.0	180	2017	N	1						1				
Downbound	Domestic	4	687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2017	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2017	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2017	N	15								15		
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2017	N	1								1		
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2017	N	2								2		
Downbound	Domestic	4	764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2017	N	1								1		
Downbound	Domestic	4	696	1643	200.0	35.0	2	9.0	1.5	0.5	192	2017	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	1				1						
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2017	N	1				1						
Downbound	Domestic	5	1619	4196	297.5	54.0	8	12.0	2.0	6.0	170	2017	N	1						1				
Downbound	Domestic	5	1619	4298	297.5	54.0	10	12.0	2.0	8.0	220	2017		0						0				
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2017	N	7				7						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2017	N	7				7						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2017	N	2				2						
Downbound	Domestic	4	000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2017	N	2				2						
Downbound	Domestic	4	000687	1500	195.0	35.0	7	10.0	3.0	4.0	9999	2017	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2017	N	2				2						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2017	N	29								29		
Downbound	Domestic	3	000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2017		7		7								
Downbound	Domestic	3	634	999999	145.0	48.0	9	10.0	9.0	0.0	426	2017	N	3		3								
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2017	N	2								2		
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2017	N	15				15						
Downbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2017	N	2				2						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2017	N	2				2						
Downbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2017	N	1				1						
Downbound	Domestic	4	000764	2131	200.0	35.0	9	11.0	1.9	7.1	206	2017	N	1				1						
Downbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2017	N	4				4						
Downbound	Domestic	4	000823	1633	200.0	35.0	8	9.0	1.6	6.4	180	2017	N	1				1						
Downbound	Domestic	5	814	2442	148.0	54.0	9	9.0	2.0	7.0	180	2017	N	2						2				
Downbound	Domestic	5	001623	3200	297.7	54.1	9	9.0	2.0	7.0	180	2017	N	6						6				
Downbound	Domestic	5	1619	3390	297.5	54.0	9	11.0	2.0	7.0	160	2017	N	2						2				
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2017	N	23								23		
Downbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2017	N	3								3		
Downbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2017	N	1		1								
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2017	N	3				3						
Downbound	Domestic	5	001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2017	N	6						6				
Downbound	Domestic	5	1639	3000	297.5	52.5	9	12.0	2.0	7.0	180	2017	N	1						1				
Downbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2017	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	2	15.0	3.0	-1.0	9999	2017	N	1								1		
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2017		3		3								
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2017	N	6		6								
Downbound	Domestic	4	705	1546	200.0	35.0	2	9.0	1.5	0.5	223	2017	N	1								1		
Downbound	Domestic	4	000764	2131	200.0	35.0	2	13.0	1.9	0.1	206	2017	N	1								1		
Downbound	Domestic	4	705	1674	200.0	35.0	8	9.0	1.4	6.6	205	2017	N	1				1						
Downbound	Domestic	4	000823	2292	200.0	35.0	9	12.0	2.0	7.0	250	2017	N	3				3						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	165	2017	N	8				8						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2017	N	24				24						
Downbound	Domestic	5	1619	3300	297.5	54.0	9	9.0	2.0	7.0	180	2017		3						3				
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2017	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	191	2017	N	1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	9999	2017	N	1				1						
Downbound	Domestic	5	1724	3300	297.6	54.1	9	10.0	2.0	7.0	180	2017	N	4						4				
Downbound	Domestic	5	3084	2874	298.0	54.0	8	8.6	4.0	4.0	260	2017	N	9						9				
Downbound	Domestic	5	1819	3100	281.7	54.0	9	9.0	2.0	7.0	180	2017	N	2						2				
Downbound	Domestic	5	1660	3400	297.6	54.1	8	9.0	2.0	6.0	180	2017	N	2						2				
Downbound	Domestic	4	000823	2500	200.0	35.0	8	12.0	2.0	6.0	9999	2017	N	1				1						
Downbound	Domestic	3	000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2017	N	8		8								
Downbound	Domestic	3	000133	444	110.0	32.0	8	10.3	8.0	0.0	450	2017	N	1		1								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
			REG	CAP	OVER	OVER	ACTUAL	LOAD	LIGHT	DRAFT DUE	H F		CONTAINER		Self-									
DIRECTION	TTYPE	VTYPE	TONS	TONS	LENGTH	BREADTH	DRAFT	DRAFT	DRAFT	TO CARGO	POINT	YEAR	IZED	TRIPS	Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	705	1643	200.0	35.0	9	9.0	1.6	7.4	160	2017	N	1				1						
Downbound	Domestic	4	000764	2272	200.0	35.0	2	9.0	1.5	0.5	215	2017	N	1								1		
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2017	N	5				5						
Downbound	Domestic	4	000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2017	N	2				2						
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2017	N	2				2						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2017	N	5						5				
Downbound	Domestic	4	000764	2408	200.0	35.0	9	13.0	1.6	7.4	220	2017	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2017	N	1				1						
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2017	N	2				2						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2017	N	1				1						
Downbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2017	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2017	N	9								9		
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2017	N	8				8						
Downbound	Domestic	4	933	1674	250.0	54.0	10	11.0	1.5	8.5	177	2017	N	1				1						
Downbound	Domestic	4	823	2059	200.0	35.0	6	8.0	1.6	4.4	25	2017	N	5				5						
Downbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2017	N	2				2						
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2017	N	4				4						
Downbound	Domestic	5	2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2017	N	3						3				
Downbound	Domestic	5	1619	4298	297.5	54.0	9	12.0	2.0	7.0	220	2017	N	4						4				
Downbound	Domestic	5	2840	2800	298.0	54.0	8	8.6	4.0	4.0	260	2017	N	10						10				
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2017	N	5						5				
Downbound	Domestic	5	1922	4144	300.0	54.0	9	12.0	1.0	8.0	165	2017	N	2						2				
Downbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2017	N	1				1						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2017	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.7	0.3	206	2017	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	11.0	1.8	0.2	206	2017	N	1								1		
Downbound	Domestic	4	764	1665	200.0	35.0	2	9.0	1.4	0.6	155	2017	N	1								1		
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2017	N	3				3						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2017	N	6				6						
Downbound	Domestic	4	000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2017	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2017	N	3				3						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2017	N	8				8						
Downbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2017	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2017	N	2				2						
Downbound	Domestic	4	802	2107	195.0	35.0	8	12.0	1.6	6.4	214	2017	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	12	13.0	1.9	10.1	206	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	220	2017	N	2				2						
Downbound	Domestic	3	108	999999	75.0	24.0	9	8.6	8.0	1.0	425	2017		18		18								
Downbound	Domestic	4	705	1672	200.0	35.0	2	9.0	1.4	0.6	120	2017	N	1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	2	10.0	1.5	0.5	255	2017	N	1								1		
Downbound	Domestic	4	764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2017	N	1								1		
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2017	N	15				15						
Downbound	Domestic	4	000823	2300	200.0	35.0	10	14.0	1.5	8.5	165	2017	N	1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2017	N	2				2						
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2017		2						2				
Downbound	Domestic	5	1943	3500	295.0	54.0	10	10.0	2.0	8.0	220	2017		2						2				
Downbound	Domestic	5	1721	3300	297.6	54.1	10	10.0	2.0	8.0	180	2017		2						2				
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2017	N	2				2						
Downbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2017	N	1				1						
Downbound	Domestic	5	1943	3500	295.0	54.0	9	10.0	2.0	7.0	220	2017	N	1						1				
Downbound	Domestic	4	933	1527	195.0	35.0	10	10.0	1.5	8.5	199	2017	N	1				1						
Downbound	Domestic	4	000823	2410	200.0	35.0	9	14.0	1.5	7.5	120	2017	N	1				1						
Downbound	Domestic	4	000882	2646	200.0	35.0	2	9.0	2.0	0.0	9999	2017	N	2								2		
Downbound	Domestic	4	000764	1615	200.0	35.0	2	10.0	1.8	0.2	170	2017	N	1								1		
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2017	N	6				6						
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2017	N	4				4						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2017	N	4				4						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2017	N	15				15						
Downbound	Domestic	4	000764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	2.0	5.0	9999	2017	N	1				1						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	4				4						
Downbound	Domestic	4	764	1648	200.0	35.0	12	10.0	1.5	10.5	255	2017	N	1				1						
Downbound	Domestic	4	190	541	110.0	30.0	7	7.0	1.0	6.0	70	2017	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	2.0	0.0	9999	2017	N	1								1		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	12.0	1.8	0.2	206	2017	N	4								4		
Downbound	Domestic	4	823	2739	200.0	35.0	2	14.0	1.6	0.4	250	2017	N	1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	6				6						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2017	N	7				7						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2017	N	16				16						
Downbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	186	2017	N	6				6						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2017	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2017	N	2				2						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2017	N	4				4						
Downbound	Domestic	4	564	1619	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2017	N	2				2						
Downbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2017	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2017	N	1				1						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2017	N	2				2						
Downbound	Domestic	5	000705	1650	200.0	35.0	9	9.6	2.0	7.0	189	2017	N	2						2				
Downbound	Domestic	5	1619	4298	297.5	54.0	12	12.0	2.0	10.0	220	2017	N	2						2				
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	255	2017	N	1				1						
Downbound	Domestic	4	000745	2292	200.0	35.0	2	12.0	2.0	0.0	216	2017	N	1								1		
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2017		3		3								
Downbound	Domestic	4	705	1889	200.0	35.0	2	10.0	1.4	0.6	189	2017	N	1								1		
Downbound	Domestic	4	705	1667	200.0	35.0	2	9.0	1.7	0.3	170	2017	N	1								1		
Downbound	Domestic	4	823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2017	N	1								1		
Downbound	Domestic	5	800	1400	195.0	35.0	2	9.0	1.8	0.2	183	2017	N	1										1
Downbound	Domestic	4	823	2500	200.0	35.0	2	13.0	2.0	0.0	250	2017	N	1								1		
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2017	N	7				7						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	6				6						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2017	N	5				5						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	11.0	1.6	7.4	210	2017	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2017	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2017	N	1				1						
Downbound	Domestic	5	2688	2600	298.0	54.0	9	8.6	4.0	5.0	260	2017	N	1						1				
Downbound	Domestic	5	001321	3200	280.4	54.0	9	9.0	2.0	7.0	180	2017	N	1						1				
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017	N	17		17								
Downbound	Domestic	4	000764	2131	200.0	35.0	2	11.0	1.9	0.1	206	2017	N	1								1		
Downbound	Domestic	4	000823	2739	200.0	35.0	2	13.9	1.6	0.4	140	2017	N	1								1		
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2017	N	29				29						
Downbound	Domestic	5	814	2442	148.0	54.0	9	9.0	2.0	7.0	180	2017		5						5				
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2017	N	5				5						
Downbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2017	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2017	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2017	N	1				1						
Downbound	Domestic	5	2688	2800	298.0	54.0	9	8.6	4.0	5.0	260	2017	N	1						1				
Downbound	Domestic	4	000764	1700	200.0	35.0	6	9.0	1.9	4.1	206	2017	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2017	N	1				1						
Downbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.7	7.3	180	2017	N	1				1						
Downbound	Domestic	5	1619	3300	297.5	54.0	5	9.0	2.0	3.0	180	2017	N	0						0				
Downbound	Domestic	5	001650	3800	297.0	52.0	8	9.0	1.8	6.2	140	2017		1						1				
Downbound	Domestic	4	745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2017	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	11.0	1.8	7.2	170	2017	N	1				1						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2017	N	1				1						
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2017	N	5		5								
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2017	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2017	N	7								7		
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2017	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2017	N	2				2						
Downbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2017	N	1				1						
Downbound	Domestic	5	1619	4465	297.5	54.0	7	12.0	2.0	5.0	220	2017	N	0						0				
Downbound	Domestic	5	1454	3200	295.0	54.0	10	10.0	2.0	8.0	170	2017	N	6						6				
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2017	N	1				1						
Downbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2017		27		27								
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2017	N	7		7								
Downbound	Domestic	4	687	1722	195.0	35.0	8	10.0	1.6	6.4	205	2017	N	2				2						
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2017	N	3				3						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2017	N	3				3						
Downbound	Domestic	5	001623	32000	297.7	54.1	2	9.0	2.0	0.0	180	2017		1										1
Downbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	130	2017	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2017	N	1				1						
Downbound	Domestic	3	205	999999	110.0	34.0	10	8.0	8.0	2.0	440	2017	N	1		1								
Downbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2017	N	5								5		
Downbound	Domestic	4	823	1624	200.0	35.0	2	9.0	1.6	0.4	191	2017	N	1								1		
Downbound	Domestic	4	000687	1535	200.0	35.0	2	9.0	1.5	0.5	217	2017	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	9999	2017	N	3				3						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2017	N	3				3						
Downbound	Domestic	5	000796	2388	147.6	54.0	10	10.0	2.0	8.0	170	2017		1						1				
Downbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2017	N	5				5						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2017		2						2				
Downbound	Domestic	4	000687	1500	195.0	35.0	8	10.0	3.0	5.0	9999	2017	N	1				1						
Downbound	Domestic	4	000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2017	N	2				2						
Downbound	Domestic	5	1673	1673	297.5	52.0	9	9.0	1.0	8.0	185	2017		1						1				
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	160	2017	N	1				1						
Downbound	Domestic	4	000745	2100	195.0	35.0	2	12.0	2.0	0.0	9999	2017	N	10								10		
Downbound	Domestic	4	000823	1600	200.0	35.0	2	9.0	1.5	0.5	9999	2017	N	1								1		
Downbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2017	N	7				7						
Downbound	Domestic	5	1619	3200	297.5	54.0	8	9.0	2.0	6.0	180	2017		0						0				
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2017	N	2				2						
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2017	N	1				1						
Downbound	Domestic	4	000823	2058	200.0	35.0	11	14.0	2.0	9.0	9999	2017	N	1				1						
Downbound	Domestic	5	001623	32000	297.7	54.1	9	9.0	2.0	7.0	180	2017	N	3						3				
Downbound	Domestic	4	000764	1619	200.0	35.0	10	10.0	3.0	7.0	206	2017	N	1				1						
Downbound	Domestic	5	1619	3300	297.0	54.0	8	9.0	2.0	6.0	180	2017	N	10						10				
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2017	N	1				1						
Downbound	Domestic	4	823	2279	200.0	35.0	9	12.0	1.7	7.3	223	2017	N	1				1						
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2017	N	1				1						
Downbound	Domestic	3	634	999999	145.0	48.0	9	9.0	8.6	0.4	426	2017	N	2		2								
Downbound	Domestic	3	199	999999	150.2	44.2	9	10.8	9.3	-0.3	430	2017		5		5								
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2017	N	11										11
Downbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2017	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	13.0	2.0	5.0	218	2017	N	3				3						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2017	N	2				2						
Downbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2017	N	8				8						
Downbound	Domestic	5	1660	3200	297.6	54.1	9	9.0	2.0	7.0	180	2017		5						5				
Downbound	Domestic	4	000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2017	N	1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2017	N	4				4						
Downbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2017	N	2				2						
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2017	N	2				2						
Downbound	Domestic	5	914	2800	147.5	52.5	9	13.0	2.0	7.0	180	2017	N	4						4				
Downbound	Domestic	4	000764	1650	200.0	35.0	12	13.0	1.5	10.5	208	2017	N	1				1						
Downbound	Domestic	3	000143	477	110.0	35.0	9	10.0	2.0	7.0	9999	2017		26		26								
Downbound	Domestic	4	708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2017	N	2								2		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	9999	2017	N	1								1		
Downbound	Domestic	5	000735	1521	200.0	35.0	2	12.5	2.0	0.0	201	2017	N	1										1
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2017	N	13				13						
Downbound	Domestic	4	802	2110	195.0	35.0	8	12.0	1.8	6.2	234	2017	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2017	N	2				2						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2017	N	7						7				
Downbound	Domestic	4	000823	2792	200.0	35.0	7	12.0	1.7	5.3	250	2017	N	1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2017	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2017	N	1				1						
Downbound	Domestic	4	000764	2353	200.0	35.0	8	12.9	1.6	6.4	205	2017	N	1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2017	N	1				1						
Downbound	Domestic	5	730	1500	138.0	52.5	9	9.0	2.0	7.0	175	2017	N	1						1				
Downbound	Domestic	5	001151	3275	175.0	54.0	6	9.0	1.5	4.5	164	2017	N	1						1				
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2017	N	31				31						
Downbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2017	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	8	12.0	1.5	6.5	208	2017	N	2				2						
Downbound	Domestic	5	2688	2800	298.0	54.0	9	8.6	4.0	5.0	260	2017		6						6				
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2017	N	11				11						
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2017	N	3				3						
Downbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2017	N	3				3						
Downbound	Domestic	4	823	2161	200.0	35.0	8	12.0	1.8	6.2	224	2017	N	1				1						
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2017	N	4						4				
Downbound	Domestic	5	1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2017	N	5						5				
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2017	N	2				2						
Downbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2017	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	12	12.0	2.0	10.0	180	2017	N	1						1				
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	225	2017	N	1				1						
Downbound	Domestic	5	001841	3200	290.0	54.0	10	10.0	2.0	8.0	220	2017	N	1						1				
Downbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2017	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	2	11.0	1.8	0.2	206	2017	N	4								4		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2017	N	2								2		
Downbound	Domestic	3	81	999999	100.0	38.0	10	13.7	13.7	-3.7	360	2017	N	1		1								
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2017	N	12				12						
Downbound	Domestic	4	000329	1500	140.0	40.0	3	3.0	2.0	1.0	70	2017	N	1								1		
Downbound	Domestic	4	618	1728	195.0	35.0	8	10.0	1.5	6.5	206	2017	N	1				1						
Downbound	Domestic	5	3084	2874	298.0	54.0	8	8.6	4.0	4.0	260	2017		2						2				
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2017	N	2				2						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2017	N	2				2						
Downbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	6				6						
Downbound	Domestic	4	000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2017	N	2				2						
Downbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2017	N	1				1						
Downbound	Domestic	4	000764	1765	200.0	35.0	10	11.0	2.0	8.0	165	2017	N	1				1						
Downbound	Domestic	4	764	2000	200.0	35.0	10	12.0	1.5	8.5	9999	2017	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2017	N	2				2						
Downbound	Domestic	4	740	1536	200.0	35.0	9	9.0	2.0	7.0	165	2017	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2017	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2017		15		15								
Downbound	Domestic	4	000823	1600	195.0	35.0	2	12.0	2.0	0.0	140	2017	N	3								3		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	15.0	3.0	-1.0	9999	2017	N	1								1		
Downbound	Domestic	5	001754	3390	297.0	54.0	2	11.0	2.0	0.0	180	2017	N	1										1
Downbound	Domestic	5	2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2017	N	1										1
Downbound	Domestic	4	700	2143	195.0	35.0	2	12.0	1.5	0.5	206	2017	N	2								2		
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2017	N	2				2						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2017	N	3				3						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	234	2017	N	1				1						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2017	N	15				15						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2017	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2017	N	1				1						
Downbound	Domestic	4	000705	1648	200.0	35.0	12	12.0	1.5	10.5	186	2017	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		4 000745	2331	195.0	35.0	8	13.0	1.6	6.4	220	2017	N	1				1						
Downbound	Domestic		5 1721	3300	297.6	54.1	9	10.0	2.0	7.0	180	2017	N	2						2				
Downbound	Domestic		4 000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2017	N	1				1						
Downbound	Domestic		4 834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2017	N	1				1						
Downbound	Domestic		4 000764	1750	200.0	35.0	8	10.0	1.5	6.5	194	2017	N	1				1						
Downbound	Domestic		3 258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017		15		15								
Downbound	Domestic		4 856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2017	N	1								1		
Downbound	Domestic		5 886	1400	195.1	35.1	3	8.6	2.2	0.8	185	2017	N	1										1
Downbound	Domestic		4 000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2017	N	1				1						
Downbound	Domestic		5 2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2017		6						6				
Downbound	Domestic		5 2476	2500	310.0	50.0	9	9.0	2.5	6.5	230	2017		2						2				
Downbound	Domestic		5 834	2502	147.6	54.0	9	9.5	1.5	7.5	185	2017		3						3				
Downbound	Domestic		4 000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2017	N	4				4						
Downbound	Domestic		4 000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	2				2						
Downbound	Domestic		4 688	1677	200.0	35.0	8	9.0	1.5	6.5	210	2017	N	1				1						
Downbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2017	N	2				2						
Downbound	Domestic		3 000143	477	110.0	35.0	10	10.0	2.0	8.0	9999	2017		8		8								
Downbound	Domestic		4 000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2017	N	1								1		
Downbound	Domestic		4 705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2017	N	1								1		
Downbound	Domestic		4 764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2017	N	1				1						
Downbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2017	N	1				1						
Downbound	Domestic		4 000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2017	N	18				18						
Downbound	Domestic		5 001455	3200	295.0	54.0	9	10.0	2.0	7.0	170	2017		1						1				
Downbound	Domestic		4 764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2017	N	1				1						
Downbound	Domestic		4 000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2017	N	10				10						
Downbound	Domestic		5 1808	2700	245.0	54.0	10	10.0	2.0	8.0	170	2017	N	3						3				
Downbound	Domestic		4 000764	2500	200.0	35.0	6	9.0	1.6	4.4	9999	2017	N	1				1						
Downbound	Domestic		3 000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2017		16		16								
Downbound	Domestic		4 783	1665	200.0	35.0	2	9.0	2.0	0.0	190	2017	N	2								2		
Downbound	Domestic		4 687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2017	N	4				4						
Downbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2017	N	3				3						
Downbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2017	N	5				5						
Downbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2017	N	6				6						
Downbound	Domestic		4 000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2017	N	5				5						
Downbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2017	N	23				23						
Downbound	Domestic		4 000764	2073	200.0	35.0	7	11.0	1.5	5.5	230	2017	N	1				1						
Downbound	Domestic		4 000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2017	N	4				4						
Downbound	Domestic		5 1839	3100	290.0	52.5	8	9.0	2.0	6.0	210	2017	N	1						1				
Downbound	Domestic		4 000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2017	N	1				1						
Downbound	Domestic		4 000705	2532	200.0	35.0	9	13.0	1.5	7.5	120	2017	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2017	N	2				2						
Downbound	Domestic		4 000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2017	N	2				2						
Downbound	Domestic		5 001623	32000	297.7	54.1	2	9.0	2.0	0.0	180	2017	N	4										4
Downbound	Domestic		5 1660	3200	297.6	54.1	6	9.0	2.0	4.0	180	2017	N	2						2				
Downbound	Domestic		4 862	1736	195.0	35.0	9	10.0	1.5	7.5	192	2017	N	1				1						
Downbound	Domestic		4 000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2017	N	2								2		
Downbound	Domestic		4 000764	2090	200.0	35.0	2	12.0	1.6	0.4	210	2017	N	2								2		
Downbound	Domestic		3 266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2017	N	1		1								
Downbound	Domestic		4 000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2017	N	4				4						
Downbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	9				9						
Downbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2017	N	5				5						
Downbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	250	2017	N	1				1						
Downbound	Domestic		4 764	1504	200.0	35.0	8	9.0	1.5	6.5	189	2017	N	1				1						
Downbound	Domestic		4 823	2194	200.0	35.0	6	8.0	1.4	4.6	25	2017	N	10				10						
Downbound	Domestic		4 764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	8				8						
Downbound	Domestic		4 000764	1855	200.0	35.0	9	10.0	1.7	7.3	130	2017	N	2				2						
Downbound	Domestic		4 000705	1650	200.0	35.0	9	10.0	1.5	7.5	208	2017	N	1				1						
Downbound	Domestic		4 823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2017	N	2				2						
Downbound	Domestic		4 000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2017	N	3				3						
Downbound	Domestic		5 914	2800	147.5	52.5	13	13.0	2.0	11.0	180	2017	N	1						1				
Downbound	Domestic		4 000705	2200	200.0	35.0	9	9.0	1.5	7.5	217	2017	N	1				1						
Downbound	Domestic		4 000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2017	N	1				1						
Downbound	Domestic		3 390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2017		19		19								
Downbound	Domestic		5 835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2017		7										7
Downbound	Domestic		4 000823	1933	200.0	35.0	2	12.0	2.0	0.0	215	2017	N	1								1		
Downbound	Domestic		5 1619	3300	297.0	54.0	2	9.0	2.0	0.0	180	2017	N	1										1
Downbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.6	6.4	125	2017	N	1				1						
Downbound	Domestic		4 000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2017	N	7				7						
Downbound	Domestic		4 802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2017	N	7				7						
Downbound	Domestic		4 000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2017	N	2				2						
Downbound	Domestic		4 764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2017	N	6				6						
Downbound	Domestic		5 1454	3200	295.0	54.0	10	10.0	2.0	8.0	170	2017		1						1				
Downbound	Domestic		4 000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2017	N	1				1						
Downbound	Domestic		4 000764	1935	200.0	35.0	10	12.0	1.7	8.3	195	2017	N	1				1						
Downbound	Domestic		4 705	1661	200.0	35.0	12	12.0	1.4	10.6	160	2017	N	1				1						
Downbound	Domestic		4 000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2017	N	1				1						
Downbound	Domestic		4 000764	1625	200.0	35.0	3	9.0	3.0	0.0	9999	2017	N	1								1		
Downbound	Domestic		4 000764	1651	200.0	35.0	2	13.0	1.9	0.1	206	2017	N	1								1		
Downbound	Domestic		4 745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2017	N	1				1						
Downbound	Domestic		4 000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2017	N	12				12						
Downbound	Domestic		4 764	2513	200.0	35.0	9	13.0	1.8	7.2	180	2017	N	1				1						
Downbound	Domestic		4 764	1854	200.0	35.0	9	10.0	1.6	7.4	224	2017	N	1				1						
Downbound	Domestic		4 000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	4				4						
Downbound	Domestic		4 687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2017		3				3						
Downbound	Domestic		5 1724	3300	297.6	54.1	12	10.0	2.0	10.0	180	2017	N	1						1				
Downbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2017	N	1				1						
Downbound	Domestic		4 764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2017	N	4				4						
Downbound	Domestic		4 764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2017	N	1				1						
Downbound	Domestic		4 705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2017	N	1				1						
Downbound	Domestic		4 687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2017	N	1				1						
Downbound	Domestic		5 1660	3200	297.6	54.1	5	9.0	2.0	3.0	180	2017	N	1						1				
Downbound	Domestic		5 1619	4054	297.0	54.0	8	12.0	2.0	6.0	170	2017	N	1						1				
Downbound	Domestic		5 1804	5412	297.5	54.0	9	9.0	2.0	7.0	180	2017	N	1						1				
Downbound	Domestic		4 000764	1650	200.0	35.0	2	13.0	1.5	0.5	208	2017	N	1								1		
Downbound	Domestic		4 772	2415	200.0	35.0	2	13.0	1.5	0.5	130	2017	N	1								1		
Downbound	Domestic		4 000764	2532	200.0	35.0	2	13.0	1.5	0.5	120	2017	N	3								3		
Downbound	Domestic		4 764	1657	200.0	35.0	2	9.0	1.5	0.5	170	2017	N	1								1		
Downbound	Domestic		4 000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2017	N	2				2						
Downbound	Domestic		4 000764	999999	200.0	35.0	2	9.0	1.5	0.5	130	2017	N	1								1		
Downbound	Domestic		4 000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2017	N	1				1						
Downbound	Domestic		4 000823	2300	200.0	35.0	10	12.0	1.5	8.5	165	2017	N	1				1						
Downbound	Domestic		4 000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2017	N	4				4						
Downbound	Domestic		4 000764	1800	200.0	35.0	14	10.0	3.0	11.0	9999	2017	N	1				1						
Downbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2017	N	1				1						
Downbound	Domestic		4 000719	1553	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	1				1						
Downbound	Domestic		4 000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2017	N	26								26		
Downbound	Domestic		3 000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2017		6		6								
Downbound	Domestic		3 185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2017		10		10								
Downbound	Domestic		5 774	1500	195.0	35.0	2	10.0	2.0	0.0	180	2017		2										2
Downbound	Domestic		5 000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2017	N	3										3
Downbound	Domestic		4 000764	2151	200.0	35.0	2	12.0	1.8	0.2	195	2017	N	3								3		
Downbound	Domestic		3 265	999999	116.0	34.0	10	10.6	9.5	0.5	420	2017		1		1								
Downbound	Domestic		4 964	2098	200.0	35.0	9	11.0	1.5	7.5	218	2017	N	3				3						
Downbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2017	N	27				27						
Downbound	Domestic		4 000823	2058	200.0	35.0	11	12.0	2.0	9.0	9999	2017	N	3				3						
Downbound	Domestic		4 000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2017	N	10				10						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

																0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																		Loaded				Unloaded			
																		Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2017	N	8				8						
Downbound	Domestic	5	1791	3351	297.6	54.1	8	9.3	2.3	5.7	238	2017	N	1						1				
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2017	N	4				4						
Downbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	10	11.0	1.9	8.1	206	2017	N	2				2						
Downbound	Domestic	5	1891	3100	281.7	54.0	9	9.0	2.0	7.0	180	2017		2						2				
Downbound	Domestic	4	000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2017	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	3				3						
Downbound	Domestic	4	764	1969	200.0	35.0	9	10.5	1.5	7.5	180	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	228	2017	N	3				3						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2017	N	1						1				
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2017	N	2				2						
Downbound	Domestic	5	797	1700	147.6	52.0	9	9.0	2.0	7.0	185	2017		1						1				
Downbound	Domestic	5	2016	4260	297.5	54.0	9	9.3	1.5	7.5	220	2017	N	1						1				
Downbound	Domestic	4	687	1629	195.0	35.0	8	9.0	1.4	6.6	160	2017	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.5	7.5	165	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	220	2017	N	3									3	
Downbound	Domestic	4	000764	2397	200.0	35.0	2	13.0	1.7	0.3	208	2017	N	1									1	
Downbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2017	N	6				6						
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2017		3						3				
Downbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2017	N	8				8						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2017		3						3				
Downbound	Domestic	5	2016	4260	297.5	54.0	8	9.3	1.5	6.5	220	2017	N	1						1				
Downbound	Domestic	4	000764	1538	200.0	35.0	9	9.0	1.7	7.3	9999	2017	N	1				1						
Downbound	Domestic	4	000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2017	N	18				18						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2017	N	36				36						
Downbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2017	N	4				4						
Downbound	Domestic	4	000764	1521	200.0	35.0	9	9.0	1.8	7.2	225	2017	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2017	N	1				1						
Downbound	Domestic	5	2013	3637	290.0	52.5	9	9.0	1.5	7.5	200	2017	N	1						1				
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2017	N	20									20	
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2017	N	15										15
Downbound	Domestic	4	000609	2190	200.0	35.0	2	12.0	2.0	0.0	260	2017	N	1									1	
Downbound	Domestic	4	823	1623	200.0	35.0	2	9.0	1.7	0.3	160	2017	N	1									1	
Downbound	Domestic	4	000764	1652	200.0	35.0	2	9.0	2.0	0.0	215	2017	N	1									1	
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2017	N	15				15						
Downbound	Domestic	5	1850	3149	290.0	52.5	8	9.0	1.5	6.5	180	2017	N	1						1				
Downbound	Domestic	4	000823	1838	200.0	35.0	9	10.0	1.7	7.3	191	2017	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	9	10.0	3.0	6.0	206	2017	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	10	12.0	1.8	8.2	206	2017	N	2				2						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	234	2017	N	1				1						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2017	N	1				1						
Downbound	Domestic	4	000823	1600	195.0	35.0	8	12.0	2.0	6.0	140	2017	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	2	9.0	1.7	0.3	164	2017	N	2									2	
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2017	N	2									2	
Downbound	Domestic	3	000195	999999	78.0	34.0	8	11.0	8.0	0.0	470	2017		1		1								
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2017	N	5				5						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2017	N	14				14						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2017		4						4				
Downbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2017	N	1				1						
Downbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2017	N	5				5						
Downbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2017	N	1				1						
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.7	0.3	250	2017	N	1									1	
Downbound	Domestic	3	533	999999	140.0	42.0	9	8.6	6.6	2.4	430	2017		3		3								
Downbound	Domestic	4	922	1669	200.0	35.0	2	9.0	1.5	0.5	206	2017	N	1									1	
Downbound	Domestic	4	000823	2000	200.0	35.0	2	12.0	2.0	0.0	100	2017	N	2									2	
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2017	N	10				10						
Downbound	Domestic	5	2700	2500	281.0	50.0	9	9.0	2.5	6.5	230	2017		4						4				
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2017	N	9				9						
Downbound	Domestic	4	000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2017	N	2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2017	N	7				7						
Downbound	Domestic	4	764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2017	N	1				1						
Downbound	Domestic	5	2482	2500	293.0	50.0	10	9.0	2.0	8.0	220	2017	N	1						1				
Downbound	Domestic	4	000764	2292	200.0	35.0	7	11.0	2.0	5.0	225	2017	N	1				1						
Downbound	Domestic	4	705	1660	200.0	35.0	9	9.0	1.4	7.6	218	2017	N	1				1						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2017	N	1				1						
Downbound	Domestic	5	1619	4465	297.5	54.0	9	12.0	2.0	7.0	220	2017	N	1						1				
Downbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2017	N	1				1						
Downbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2017	N	2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2017	N	26				26						
Downbound	Domestic	4	000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2017	N	1				1						
Downbound	Domestic	4	000705	1544	200.0	35.0	9	9.0	1.5	7.5	135	2017	N	1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2017	N	7				7						
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2017	N	1				1						
Downbound	Domestic	4	000764	2500	200.0	35.0	8	9.0	1.6	6.4	9999	2017	N	1				1						
Downbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2017	N	7				7						
Downbound	Domestic	4	823	2403	200.0	35.0	9	12.6	1.7	7.3	190	2017	N	1				1						
Downbound	Domestic	5	1419	3000	230.0	54.0	9	10.0	2.0	7.0	170	2017	N	1						1				
Downbound	Domestic	5	001619	3100	297.6	54.0	10	10.0	2.0	8.0	220	2017	N	3						3				
Downbound	Domestic	4	000764	1546	200.0	35.0	9	9.0	1.6	7.4	205	2017	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	213	2017	N	1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2017		4		4								
Downbound	Domestic	4	000764	2090	200.0	35.0	2	11.0	1.6	0.4	210	2017	N	1									1	
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2017	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2017	N	1				1						
Downbound	Domestic	5	1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2017		3						3				
Downbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	206	2017	N	2				2						
Downbound	Domestic	4	000764	2090	200.0	35.0	8	10.0	1.8	6.2	170	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	7				7						
Downbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2017	N	2				2						
Downbound	Domestic	5	001619	3500	297.6	54.0	9	9.0	1.0	8.0	220	2017	N	1						1				
Downbound	Domestic	4	705	1684	250.0	54.0	11	11.0	1.5	9.5	200	2017	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	1.6	0.4	220	2017	N	1									1	
Downbound	Domestic	4	000802	1600	195.0	35.0	2	12.0	2.0	0.0	140	2017	N	9									9	
Downbound	Domestic	4	000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2017	N	2									2	
Downbound	Domestic	4	823	1640	200.0	35.0	2	9.0	1.5	0.5	235	2017	N	1									1	
Downbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2017	N	7		7								
Downbound	Domestic	4	764	1969	200.0	35.0	2	10.5	1.7	0.3	180	2017	N	1									1	
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2017	N	16				16						
Downbound	Domestic	4	000764	1742	200.0	35.0	8	10.0	1.7	6.3	195	2017	N	2				2						
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2017		9						9				
Downbound	Domestic	4	000764	1510	200.0	35.0	8	12.0	1.8	6.2	210	2017	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2017	N	5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	10.0	1.5	8.5	215	2017	N	1				1						
Downbound	Domestic	5	3084	2874	298.0	54.0	9	8.6	4.0	5.0	260	2017	N	3						3				
Downbound	Domestic	5	2476	2500	310.0	50.0	9	9.0	2.5	6.5	230	2017	N	1						1				
Downbound	Domestic	4	000764	2475	200.0	35.0	8	12.0	3.0	5.0	225	2017	N	1				1						
Downbound	Domestic	5	1958	4420	297.0	52.6	8	9.0	2.0	6.0	160	2017	N	1						1				
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2017	N	1				1						
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2017		4		4								
Downbound	Domestic	3	000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2017		1		1								
Downbound	Domestic	4	764	1612	200.0	35.0	2	9.0	1.5	0.5	189	2017	N	1									1	
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2017	N	13				13						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2017	N	6				6						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2017	N	1				1						
Downbound	Domestic	4	000705	2406	200.0	35.0	9	13.0	1.6	7.4	120	2017	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2017	N	3				3						
Downbound	Domestic	4	000764	2350	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2017	N	1				1						
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2017	N	15								15		
Downbound	Domestic	4	000764	1560	200.0	35.0	3	9.0	3.0	0.0	9999	2017	N	1								1		
Downbound	Domestic	3	265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2017	N	2		2								
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2017	N	6				6						
Downbound	Domestic	5	001151	3275	175.0	54.0	9	9.0	1.5	7.5	164	2017	N	2						2				
Downbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2017	N	1				1						
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2017	N	3				3						
Downbound	Domestic	3	000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2017	N	6		6								
Downbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2017	N	1								1		
Downbound	Domestic	5	1724	3300	297.6	54.1	9	10.0	2.0	7.0	180	2017		2						2				
Downbound	Domestic	5	1724	3300	297.6	54.1	10	10.0	2.0	8.0	180	2017		3						3				
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2017	N	2				2						
Downbound	Domestic	4	000745	1648	195.0	35.0	11	12.0	1.5	9.5	186	2017	N	1				1						
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2017	N	10						10				
Downbound	Domestic	5	1454	3200	295.0	54.0	9	10.0	2.0	7.0	170	2017	N	1						1				
Downbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2017	N	1				1						
Downbound	Domestic	4	960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2017	N	1								1		
Downbound	Domestic	4	680	2000	200.0	35.0	2	11.0	1.5	0.5	208	2017	N	3								3		
Downbound	Domestic	4	856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2017	N	1								1		
Downbound	Domestic	3	194	999999	101.0	30.0	10	9.4	8.0	2.0	360	2017	N	1		1								
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2017	N	4				4						
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2017	N	10				10						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2017	N	4				4						
Downbound	Domestic	4	823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2017	N	2				2						
Downbound	Domestic	4	823	1800	200.0	35.0	12	10.0	1.5	10.5	180	2017	N	1				1						
Downbound	Domestic	3	209	999999	85.5	30.0	7	7.5	7.0	0.0	400	2017		1		1								
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2017		3		3								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	10.0	3.0	-1.0	216	2017	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	3	10.0	3.0	0.0	9999	2017	N	1								1		
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.5	0.5	217	2017	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2017	N	20				20						
Downbound	Domestic	4	764	1855	200.0	35.0	8	10.0	1.5	6.5	165	2017	N	1				1						
Downbound	Domestic	4	933	1527	195.0	35.0	12	12.0	1.5	10.5	199	2017	N	5				5						
Downbound	Domestic	5	001151	3275	175.0	54.0	9	9.0	1.5	7.5	164	2017		5						5				
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2017	N	7				7						
Downbound	Domestic	4	764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2017	N	3								3		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	10.0	1.7	6.3	160	2017	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	1869	2017	N	1				1						
Downbound	Domestic	5	1993	3998	297.6	54.0	9	9.3	2.0	7.0	266	2017	N	1						1				
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.5	5.5	175	2017	N	12				12						
Downbound	Domestic	4	706	1575	200.0	35.0	9	9.0	1.6	7.4	205	2017	N	1				1						
Downbound	Domestic	4	000823	2880	200.0	35.0	7	12.0	2.0	5.0	9999	2017	N	2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	250	2017	N	3								3		
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	250	2017	N	2				2						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2017	N	6				6						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2017	N	4				4						
Downbound	Domestic	5	1804	5412	297.5	54.0	8	9.0	2.0	6.0	180	2017	N	1						1				
Downbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2017	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	250	2017	N	1								1		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2017		1										1
Downbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2017	N	2										2
Downbound	Domestic	4	000764	2200	200.0	35.0	3	10.0	3.0	0.0	9999	2017	N	1								1		
Downbound	Domestic	4	000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2017	N	1				1						
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2017	N	12				12						
Downbound	Domestic	5	2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2017		3						3				
Downbound	Domestic	5	3084	2874	298.0	54.0	9	8.6	4.0	5.0	260	2017		6						6				
Downbound	Domestic	4	000764	2292	200.0	35.0	6	12.0	1.8	4.2	210	2017	N	3				3						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2017	N	5				5						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2017	N	2				2						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2017	N	5				5						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2017	N	4				4						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	120	2017	N	1				1						
Downbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2017	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2017	N	4								4		
Downbound	Domestic	4	000687	2061	195.0	35.0	2	12.0	1.6	0.4	9999	2017	N	1								1		
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2017	N	2				2						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2017	N	10				10						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2017	N	4				4						
Downbound	Domestic	5	1958	3300	297.6	52.6	8	9.0	2.0	6.0	200	2017	N	1						1				
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2017	N	7				7						
Downbound	Domestic	4	764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2017	N	2				2						
Downbound	Domestic	4	000764	1615	200.0	35.0	10	11.0	1.8	8.2	170	2017	N	1				1						
Downbound	Domestic	4	705	1667	200.0	35.0	9	9.0	1.7	7.3	170	2017	N	1				1						
Downbound	Domestic	4	000745	2100	195.0	35.0	7	10.0	3.0	4.0	9999	2017	N	3				3						
Downbound	Domestic	5	1660	3400	297.6	54.1	9	9.0	2.0	7.0	180	2017	N	1						1				
Downbound	Domestic	5	2688	2600	298.0	54.0	8	8.6	4.0	4.0	260	2017	N	4						4				
Downbound	Domestic	4	687	1501	195.0	35.0	9	10.0	1.5	7.5	186	2017	N	1				1						
Downbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2017	N	1				1						
Downbound	Domestic	4	764	2267	200.0	35.0	2	11.9	1.7	0.3	223	2017	N	7								7		
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2017	N	2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	220	2017	N	2								2		
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2017	N	8								8		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2017	N	1								1		
Downbound	Domestic	4	000764	1504	200.0	35.0	2	10.0	1.9	0.1	206	2017	N	1								1		
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2017	N	5				5						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2017	N	7				7						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2017	N	3				3						
Downbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2017	N	3				3						
Downbound	Domestic	4	764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2017	N	2				2						
Downbound	Domestic	5	001321	3200	280.4	54.0	9	9.0	2.0	7.0	180	2017		3						3				
Downbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2017	N	3				3						
Downbound	Domestic	4	823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2017	N	4				4						
Downbound	Domestic	5	834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2017		2						2				
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2017	N	1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	9	9.0	1.7	7.3	205	2017	N	1				1						
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2017		2						2				
Downbound	Domestic	4	000764	1742	200.0	35.0	8	10.0	1.7	6.3	130	2017	N	1				1						
Downbound	Domestic	4	000745	1648	195.0	35.0	10	12.0	1.5	8.5	186	2017	N	1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	9	9.0	1.5	7.5	180	2017	N	1				1						
Downbound	Domestic	5	766	1500	200.0	35.0	9	9.0	2.0	7.0	170	2017	N	1						1				
Downbound	Domestic	4	000764	1764	200.0	35.0	10	10.5	1.5	8.5	130	2017	N	1				1						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2017	N	1				1						
Downbound	Domestic	4	745	1495	195.0	35.0	8	9.0	1.7	6.3	225	2017	N	2				2						
Downbound	Domestic	4	000823	2880	200.0	35.0	2	12.0	3.0	-1.0	9999	2017	N	3								3		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2017	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	11.0	1.4	0.6	215	2017	N	1								1		
Downbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2017	N	2								2		
Downbound	Domestic	3	244	999999	120.0	35.0	7	7.5	7.0	0.0	160	2017	N	3		3								
Downbound	Domestic	5	2688	2600	298.0	54.0	9	8.6	4.0	5.0	260	2017		3						3				
Downbound	Domestic	4	000764	1651	200.0	35.0	12	13.0	1.9	10.1	206	2017	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	255	2017	N	1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2017	N	2				2						
Downbound	Domestic	5	1619	3300	297.5	54.0	9	9.0	2.0	7.0	180	2017	N	1						1				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		4 000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2017	N	1				1						
Downbound	Domestic		4 000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2017	N	1				1						
Downbound	Domestic		4 000609	2190	200.0	35.0	8	12.0	2.0	6.0	260	2017	N	1				1						
Downbound	Domestic		3 000498	999999	115.2	34.0	2	10.0	2.0	0.0	9999	2017		3		3								
Downbound	Domestic		4 000823	2292	200.0	35.0	2	12.0	2.0	0.0	250	2017	N	1								1		
Downbound	Domestic		4 000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2017	N	1								1		
Downbound	Domestic		4 000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2017	N	10				10						
Downbound	Domestic		4 000764	1910	200.0	35.0	11	13.0	3.0	8.0	100	2017	N	1				1						
Downbound	Domestic		4 000764	2528	200.0	35.0	8	13.0	1.5	6.5	155	2017	N	1				1						
Downbound	Domestic		4 000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2017	N	4				4						
Downbound	Domestic		4 705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2017	N	1				1						
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2017	N	7				7						
Downbound	Domestic		4 000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2017	N	3								3		
Downbound	Domestic		4 000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	2				2						
Downbound	Domestic		4 705	1653	200.0	35.0	8	9.0	1.6	6.4	160	2017	N	1				1						
Downbound	Domestic		4 802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2017	N	3				3						
Downbound	Domestic		4 823	1751	200.0	35.0	8	10.0	1.7	6.3	190	2017	N	1				1						
Downbound	Domestic		5 001619	3581	297.5	54.0	8	9.0	2.0	6.0	200	2017	N	1						1				
Downbound	Domestic		4 000764	1625	200.0	35.0	14	9.0	3.0	11.0	9999	2017	N	1				1						
Downbound	Domestic		4 000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2017	N	18								18		
Downbound	Domestic		4 000764	2292	200.0	35.0	2	10.0	2.0	0.0	9999	2017	N	1								1		
Downbound	Domestic		4 000764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2017	N	1								1		
Downbound	Domestic		4 000745	1504	200.0	35.0	2	9.0	1.9	0.1	206	2017	N	1								1		
Downbound	Domestic		5 001619	4857	297.5	54.0	9	11.0	2.0	7.0	135	2017	N	1						1				
Downbound	Domestic		5 1619	3200	297.5	54.0	9	9.0	2.0	7.0	180	2017		3						3				
Downbound	Domestic		5 750	1490	195.0	35.0	9	9.0	2.0	7.0	170	2017	N	2						2				
Downbound	Domestic		4 000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2017	N	2				2						
Downbound	Domestic		4 764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2017	N	4				4						
Downbound	Domestic		4 676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2017	N	7				7						
Downbound	Domestic		4 764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2017	N	5				5						
Downbound	Domestic		4 000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2017	N	1				1						
Downbound	Domestic		5 001754	3390	297.5	54.0	12	11.0	2.0	10.0	180	2017	N	1						1				
Downbound	Domestic		5 1766	3164	290.0	54.0	7	9.0	1.8	5.2	180	2017	N	1						1				
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2017	N	1				1						
Downbound	Domestic		4 000764	1657	200.0	35.0	11	9.0	3.0	8.0	9999	2017	N	1				1						
Downbound	Domestic		4 764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2017	N	1				1						
Downbound	Domestic		4 705	1667	200.0	35.0	8	9.0	1.7	6.3	170	2017	N	1				1						
Downbound	Domestic		5 788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2017	N	1										1
Downbound	Domestic		3 276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2017	N	5		5								
Downbound	Domestic		4 682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2017	N	4				4						
Downbound	Domestic		4 000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2017	N	5				5						
Downbound	Domestic		4 748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2017	N	4				4						
Downbound	Domestic		4 764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2017	N	2				2						
Downbound	Domestic		4 772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2017	N	3				3						
Downbound	Domestic		4 705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2017	N	1				1						
Downbound	Domestic		4 000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2017	N	4				4						
Downbound	Domestic		4 735	1422	200.0	35.0	8	8.0	2.0	6.0	165	2017	N	1				1						
Downbound	Domestic		4 000764	1765	200.0	35.0	12	13.0	2.0	10.0	165	2017	N	2				2						
Downbound	Domestic		4 764	2077	200.0	35.0	10	11.0	1.5	8.5	215	2017	N	1				1						
Downbound	Domestic		4 000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2017	N	2				2						
Downbound	Domestic		5 1619	3200	297.5	54.0	9	9.0	2.0	7.0	180	2017	N	4						4				
Downbound	Domestic		5 834	2502	147.6	54.0	10	9.5	1.5	8.5	185	2017	N	3						3				
Downbound	Domestic		4 764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2017	N	2				2						
Downbound	Domestic		4 823	1640	200.0	35.0	2	9.0	1.5	0.5	220	2017	N	1								1		
Downbound	Domestic		4 000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2017	N	1								1		
Downbound	Domestic		5 820	1422	195.0	35.0	2	9.0	1.1	0.9	194	2017	N	1										1
Downbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2017	N	9				9						
Downbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2017	N	7				7						
Downbound	Domestic		4 000823	2741	200.0	35.0	7	14.0	1.5	5.5	9999	2017	N	1				1						
Downbound	Domestic		4 802	1670	200.0	35.0	8	9.0	2.0	6.0	139	2017	N	1				1						
Downbound	Domestic		4 000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2017	N	4				4						
Downbound	Domestic		4 764	2292	200.0	35.0	9	12.0	1.5	7.5	170	2017	N	1				1						
Downbound	Domestic		4 935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2017	N	1				1						
Downbound	Domestic		5 1619	4465	297.5	54.0	4	12.0	2.0	2.0	220	2017	N	1										1
Downbound	Domestic		4 933	1674	250.0	54.0	11	11.0	1.5	9.5	177	2017	N	3				3						
Downbound	Domestic		4 000823	2881	200.0	35.0	2	13.0	3.0	-1.0	9999	2017	N	12								12		
Downbound	Domestic		3 000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2017		34		34								
Downbound	Domestic		3 000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2017		4		4								
Downbound	Domestic		4 823	1732	200.0	35.0	2	9.6	1.7	0.3	208	2017	N	1								1		
Downbound	Domestic		4 764	1648	200.0	35.0	2	12.0	1.5	0.5	186	2017	N	1								1		
Downbound	Domestic		4 000823	1635	200.0	35.0	2	9.0	1.5	0.5	175	2017	N	2								2		
Upbound	Domestic		4 000764	1619	200.0	35.0	8	9.0	1.7	6.3	206	2018	N	1			1							
Upbound	Domestic		4 764	1658	200.0	35.0	9	9.0	1.5	7.5	225	2018	N	1			1							
Upbound	Domestic		3 216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2018	N	1		1								
Upbound	Domestic		5 1619	3891	297.0	54.0	2	12.0	1.5	0.5	175	2018	N	2									2	
Upbound	Domestic		5 834	2502	147.6	54.0	2	9.5	1.5	0.5	185	2018	N	1									1	
Upbound	Domestic		4 823	1750	200.0	35.0	8	10.0	1.6	6.4	155	2018	N	1			1							
Upbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2018	N	1			1							
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2018	N	2			2							
Upbound	Domestic		4 764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2018	N	5							5			
Upbound	Domestic		4 000823	2469	200.0	35.0	8	13.0	2.0	6.0	130	2018	N	1			1							
Upbound	Domestic		4 823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2018	N	6			6							
Upbound	Domestic		4 000764	2073	200.0	35.0	9	11.0	1.5	7.5	230	2018	N	1			1							
Upbound	Domestic		5 773	1489	195.1	35.1	8	9.0	1.8	6.2	166	2018	N	1					1					
Upbound	Domestic		4 000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	1			1							
Upbound	Domestic		3 101	999999	77.7	32.1	6	7.0	5.5	0.5	300	2018	N	1		1								
Upbound	Domestic		3 000143	477	110.0	35.0	2	10.0	2.0	0.0	9999	2018	N	32		32								
Upbound	Domestic		4 000764	1965	200.0	35.0	2	13.0	1.6	0.4	240	2018	N	5							5			
Upbound	Domestic		3 81	999999	100.0	38.0	10	13.7	13.7	-3.7	360	2018	N	1		1								
Upbound	Domestic		5 1619	4054	297.0	54.0	2	12.0	2.0	0.0	170	2018	N	1									1	
Upbound	Domestic		3 000466	686	140.0	38.0	8	11.0	8.0	0.0	490	2018	N	1		1								
Upbound	Domestic		4 000764	1600	200.0	35.0	7	9.0	1.6	5.4	165	2018	N	1			1							
Upbound	Domestic		4 000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2018	N	2			2							
Upbound	Domestic		4 000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2018	N	5			5							
Upbound	Domestic		4 000823	2398	200.0	35.0	7	10.0	3.0	4.0	256	2018	N	1			1							
Upbound	Domestic		4 000823	2500	195.0	35.0	6	10.0	2.0	4.0	999	2018	N	1			1							
Upbound	Domestic		4 764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2018	N	2			2							
Upbound	Domestic		3 275	999999	114.0	30.0	10	9.3	9.3	0.7	420	2018	N	17		17								
Upbound	Domestic		3 000133	444	110.0	32.0	9	10.3	8.6	0.4	456	2018	N	1		1								
Upbound	Domestic		4 764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2018	N	10			10							
Upbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2018	N	38			38							
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	6			6							
Upbound	Domestic		4 000764	1650	200.0	35.0	10	12.0	1.5	8.5	208	2018	N	3			3							
Upbound	Domestic		4 000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2018	N	4			4							
Upbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2018	N	7			7							
Upbound	Domestic		4 764	1636	200.0	35.0	7	9.0	1.5	5.5	165	2018	N	3			3							
Upbound	Domestic		4 000764	2007	200.0	35.0	10	10.0	2.0	8.0	9999	2018	N	3			3							
Upbound	Domestic		4 823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2018	N	2			2							
Upbound	Domestic		4 687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2018	N	2			2							
Upbound	Domestic		4 823	1643	200.0	35.0	12	12.0	1.3	10.7	9999	2018	N	1			1							
Upbound	Domestic		4 856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2018	N	1			1							
Upbound	Domestic		3 265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2018	N	4		4								
Upbound	Domestic		3 349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2018	N	4		4								
Upbound	Domestic		4 000823	2300	200.0	35.0	9	14.0	1.5	7.5	165	2018	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2018	N	25			25							
Upbound	Domestic		4 764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2018	N	2			2							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	1			1							
Upbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2018	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2018	N	3			3							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2018	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2018	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.7	0.3	199	2018	N	1							1			
Upbound	Domestic	4	000745	1705	195.0	35.0	2	10.0	1.6	0.4	139	2018	N	1							1			
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2018	N	2			2							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	6			6							
Upbound	Domestic	4	000764	1615	200.0	35.0	11	11.0	1.8	9.2	170	2018	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	5	10.0	3.0	2.0	9999	2018	N	1							1			
Upbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2018	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	15.0	3.0	5.0	9999	2018	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	7	12.0	1.5	5.5	215	2018	N	1			1							
Upbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2018	N	4			4							
Upbound	Domestic	4	000823	2058	200.0	35.0	9	12.0	2.0	7.0	9999	2018	N	1			1							
Upbound	Domestic	4	000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2018	N	2			2							
Upbound	Domestic	4	000823	2400	200.0	35.0	7	11.0	2.0	5.0	9999	2018	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2018	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	10	12.0	1.5	8.5	165	2018	N	2			2							
Upbound	Domestic	5	820	1422	195.0	35.0	8	9.0	1.1	6.9	194	2018	N	1					1					
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	206	2018	N	2			2							
Upbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2018	N	1					1					
Upbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	3			3							
Upbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2018	N	1			1							
Upbound	Domestic	4	764	1969	200.0	35.0	8	10.5	1.7	6.3	180	2018	N	1			1							
Upbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2018	N	3			3							
Upbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2018	N	1			1							
Upbound	Domestic	5	1400	4196	297.0	54.0	2	12.0	2.0	0.0	200	2018	N	1									1	
Upbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2018	N	1							1			
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2018	N	8			8							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	9999	2018	N	2			2							
Upbound	Domestic	4	000823	2741	200.0	35.0	4	14.0	1.5	2.5	190	2018	N	1			1							
Upbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2018	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2018	N	5			5							
Upbound	Domestic	5	1619	3220	297.5	54.0	9	12.0	2.0	7.0	190	2018	N	1					1					
Upbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2018	N	1			1							
Upbound	Domestic	4	000764	1658	200.0	35.0	6	9.0	1.6	4.4	230	2018	N	1			1							
Upbound	Domestic	4	000687	1534	200.0	35.0	8	9.0	1.6	6.4	160	2018	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2018	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	214	2018	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	7	12.0	2.0	5.0	214	2018	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	11	13.0	2.0	9.0	225	2018	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	2	9.0	2.0	0.0	130	2018	N	1							1			
Upbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2018	N	1			1							
Upbound	Domestic	4	000823	2292	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	2			2							
Upbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2018	N	3			3							
Upbound	Domestic	4	000802	2406	105.0	35.0	8	10.0	2.0	6.0	9999	2018	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2018	N	2			2							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	12			12							
Upbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2018	N	4			4							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	250	2018	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2018	N	1			1							
Upbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2018	N	1			1							
Upbound	Domestic	4	000764	1553	200.0	35.0	9	9.0	1.6	7.4	130	2018	N	1			1							
Upbound	Domestic	5	1639	3000	297.5	52.5	2	12.0	2.0	0.0	180	2018	N	1									1	
Upbound	Domestic	4	000764	1854	200.0	35.0	2	10.0	1.6	0.4	130	2018	N	1							1			
Upbound	Domestic	4	000823	2468	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	2			2							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2018	N	5			5							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2018	N	14			14							
Upbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2018	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2018	N	3			3							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2018	N	2			2							
Upbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2018	N	5			5							
Upbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2018	N	5			5							
Upbound	Domestic	4	190	541	110.0	30.0	7	7.0	1.0	6.0	70	2018	N	1			1							
Upbound	Domestic	4	000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2018	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2018	N	1			1							
Upbound	Domestic	5	835	1426	195.0	35.0	11	12.0	3.0	8.0	136	2018	N	3					3					
Upbound	Domestic	5	1619	3300	297.5	54.0	2	9.0	2.0	0.0	180	2018	N	4									4	
Upbound	Domestic	4	823	2739	200.0	35.0	2	12.0	1.6	0.4	250	2018	N	1							1			
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2018	N	6			6							
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2018	N	4			4							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2018	N	13			13							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2018	N	1			1							
Upbound	Domestic	4	000764	1854	200.0	35.0	9	10.0	1.6	7.4	130	2018	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	12	10.0	3.0	9.0	9999	2018	N	1			1							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2018	N	1			1							
Upbound	Domestic	4	823	1634	200.0	35.0	9	9.0	1.5	7.5	175	2018	N	1			1							
Upbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2018	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	10	14.0	1.5	8.5	165	2018	N	1			1							
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2018	N	7		7								
Upbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2018	N	1		1								
Upbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2018	N	3			3							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2018	N	1			1							
Upbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2018	N	2			2							
Upbound	Domestic	4	000764	1504	200.0	35.0	11	11.0	1.9	9.1	206	2018	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2018	N	5			5							
Upbound	Domestic	4	764	1531	200.0	35.0	8	9.0	1.6	6.4	204	2018	N	1			1							
Upbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2018	N	2			2							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2018	N	1			1							
Upbound	Domestic	4	799	1886	200.0	35.0	8	10.0	1.5	6.5	149	2018	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	212	2018	N	1			1							
Upbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2018	N	1			1							
Upbound	Domestic	5	001754	3390	297.5	54.0	12	12.0	2.0	10.0	180	2018	N	2					2					
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2018	N	2			2							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2018	N	27			27							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2018	N	32			32							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2018	N	9			9							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2018	N	16			16							
Upbound	Domestic	4	000764	1965	200.0	35.0	9	13.0	1.6	7.4	240	2018	N	2			2							
Upbound	Domestic	4	000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2018	N	1			1							
Upbound	Domestic	4	823	1642	200.0	35.0	8	9.0	1.6	6.4	260	2018	N	2			2							
Upbound	Domestic	4	000823	2741	200.0	35.0	10	14.0	1.5	8.5	230	2018	N	1			1							
Upbound	Domestic	5	2431	2500	280.0	50.0	3	9.0	2.5	0.5	220	2018	N	4									4	
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2018	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2018	N	2			2							
Upbound	Domestic	4	000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2018	N	4			4							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2018	N	12			12							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2018	N	2			2							
Upbound	Domestic	4	764	1640	200.0	35.0	8	9.0	1.5	6.5	225	2018	N	1			1							
Upbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2018	N	139		139								
Upbound	Domestic	3	000195	999999	78.0	34.0	8	11.0	8.0	0.0	470	2018	N	1		1								
Upbound	Domestic	5	001619	3500	297.6	54.0	1	9.0	1.0	0.0	220	2018	N	1									1	
Upbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2018	N	4			4							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	5			5							
Upbound	Domestic		4 764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	10	10.0	3.0	7.0	206	2018	N	1			1							
Upbound	Domestic		4 764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2018	N	2			2							
Upbound	Domestic		4 000823	2058	200.0	35.0	11	12.0	2.0	9.0	9999	2018	N	2			2							
Upbound	Domestic		4 745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2018	N	1			1							
Upbound	Domestic		4 000823	2741	200.0	35.0	2	14.0	1.5	0.5	230	2018	N	5							5			
Upbound	Domestic		5 2482	2203	294.0	50.0	2	9.0	2.0	0.0	300	2018	N	1									1	
Upbound	Domestic		4 000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2018	N	7			7							
Upbound	Domestic		4 000764	1556	200.0	35.0	6	9.0	1.6	4.4	225	2018	N	1			1							
Upbound	Domestic		4 000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2018	N	16			16							
Upbound	Domestic		4 000764	2532	200.0	35.0	8	13.0	1.5	6.5	120	2018	N	13			13							
Upbound	Domestic		4 705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2018	N	4			4							
Upbound	Domestic		4 000764	2292	200.0	35.0	6	12.0	1.8	4.2	210	2018	N	2			2							
Upbound	Domestic		4 000764	1648	200.0	35.0	13	13.0	1.5	11.5	208	2018	N	1			1							
Upbound	Domestic		4 000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2018	N	1			1							
Upbound	Domestic		4 000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2018	N	2			2							
Upbound	Domestic		4 000764	2131	200.0	35.0	7	11.0	1.9	5.1	206	2018	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	7	11.0	2.0	5.0	225	2018	N	1			1							
Upbound	Domestic		4 745	2077	195.0	35.0	7	9.0	1.5	5.5	215	2018	N	1			1							
Upbound	Domestic		4 000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2018	N	3			3							
Upbound	Domestic		4 764	2098	200.0	35.0	7	11.0	1.5	5.5	218	2018	N	1			1							
Upbound	Domestic		3 000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2018	N	2		2								
Upbound	Domestic		4 706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2018	N	1							1			
Upbound	Domestic		4 000823	2398	200.0	35.0	2	13.0	1.7	0.3	256	2018	N	1							1			
Upbound	Domestic		4 823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2018	N	1							1			
Upbound	Domestic		4 999999	1541	200.0	35.0	9	9.0	1.6	7.4	143	2018	N	1			1							
Upbound	Domestic		4 000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	1			1							
Upbound	Domestic		4 764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2018	N	1			1							
Upbound	Domestic		4 823	2579	200.0	35.0	8	14.0	1.7	6.3	231	2018	N	1			1							
Upbound	Domestic		5 001619	4668	297.6	54.0	9	9.0	1.5	7.5	190	2018	N	2					2					
Upbound	Domestic		4 000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2018	N	2			2							
Upbound	Domestic		4 000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2018	N	4			4							
Upbound	Domestic		4 856	1848	200.0	35.0	9	10.0	1.6	7.4	210	2018	N	1			1							
Upbound	Domestic		4 763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2018	N	4			4							
Upbound	Domestic		4 000823	2500	200.0	35.0	7	12.0	2.0	5.0	9999	2018	N	1			1							
Upbound	Domestic		4 823	2500	200.0	35.0	8	13.0	2.0	6.0	218	2018	N	1			1							
Upbound	Domestic		4 705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2018	N	1			1							
Upbound	Domestic		4 000764	2007	200.0	35.0	11	14.0	3.0	8.0	9999	2018	N	1			1							
Upbound	Domestic		4 000764	1855	200.0	35.0	9	10.0	1.7	7.3	130	2018	N	2			2							
Upbound	Domestic		4 000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2018	N	2							2			
Upbound	Domestic		4 000764	2131	200.0	35.0	2	13.0	1.9	0.1	206	2018	N	1							1			
Upbound	Domestic		4 000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2018	N	2							2			
Upbound	Domestic		4 000823	2741	200.0	35.0	2	14.0	1.5	0.5	190	2018	N	1							1			
Upbound	Domestic		5 2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2018	N	1									1	
Upbound	Domestic		4 000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2018	N	2			2							
Upbound	Domestic		4 764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	2			2							
Upbound	Domestic		4 823	1627	200.0	35.0	13	9.0	1.8	11.2	230	2018	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	12	13.0	1.5	10.5	255	2018	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	3.0	4.0	181	2018	N	1			1							
Upbound	Domestic		4 763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2018	N	3			3							
Upbound	Domestic		4 000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2018	N	1			1							
Upbound	Domestic		4 000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2018	N	2			2							
Upbound	Domestic		5 2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2018	N	1									1	
Upbound	Domestic		5 835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2018	N	16					16					
Upbound	Domestic		4 000764	2474	200.0	35.0	8	12.9	1.6	6.4	205	2018	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2018	N	4			4							
Upbound	Domestic		4 000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2018	N	18			18							
Upbound	Domestic		4 000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	4			4							
Upbound	Domestic		4 000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2018	N	2			2							
Upbound	Domestic		4 823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2018	N	1			1							
Upbound	Domestic		4 000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2018	N	2			2							
Upbound	Domestic		4 823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2018	N	1			1							
Upbound	Domestic		4 000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2018	N	4			4							
Upbound	Domestic		4 000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2018	N	20			20							
Upbound	Domestic		4 000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2018	N	3			3							
Upbound	Domestic		4 000764	2151	200.0	35.0	8	13.0	3.0	5.0	170	2018	N	1			1							
Upbound	Domestic		4 745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2018	N	1			1							
Upbound	Domestic		4 764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2018	N	1			1							
Upbound	Domestic		4 823	2739	200.0	35.0	11	14.0	1.7	9.3	250	2018	N	1			1							
Upbound	Domestic		4 000765	1642	200.0	35.0	7	9.0	1.8	5.2	180	2018	N	1			1							
Upbound	Domestic		4 000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2018	N	2							2			
Upbound	Domestic		5 1943	3500	295.0	54.0	2	10.0	2.0	0.0	220	2018	N	1									1	
Upbound	Domestic		5 001754	4400	297.0	54.0	1	11.0	0.6	0.4	280	2018	N	1									1	
Upbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.6	6.4	130	2018	N	2			2							
Upbound	Domestic		4 000764	1651	200.0	35.0	3	9.0	1.6	1.4	206	2018	N	1							1			
Upbound	Domestic		4 000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2018	N	2			2							
Upbound	Domestic		4 764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2018	N	2			2							
Upbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2018	N	5			5							
Upbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.5	7.5	165	2018	N	1			1							
Upbound	Domestic		4 764	1854	200.0	35.0	8	10.0	1.6	6.4	224	2018	N	1			1							
Upbound	Domestic		4 000823	2161	200.0	35.0	8	12.0	1.8	6.2	220	2018	N	1			1							
Upbound	Domestic		4 687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2018	N	2			2							
Upbound	Domestic		4 705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2018	N	4			4							
Upbound	Domestic		4 764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2018	N	1			1							
Upbound	Domestic		4 000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2018	N	1			1							
Upbound	Domestic		4 000764	1637	200.0	35.0	2	9.0	1.7	0.3	199	2018	N	1							1			
Upbound	Domestic		4 000823	2469	200.0	35.0	2	13.0	2.0	0.0	190	2018	N	3							3			
Upbound	Domestic		4 000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2018	N	2			2							
Upbound	Domestic		4 823	2500	200.0	35.0	8	12.0	2.0	6.0	218	2018	N	3			3							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	13.0	2.0	6.0	175	2018	N	1			1							
Upbound	Domestic		4 000745	1648	195.0	35.0	10	12.0	1.5	8.5	186	2018	N	2			2							
Upbound	Domestic		4 708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2018	N	6			6							
Upbound	Domestic		4 764	2267	200.0	35.0	8	11.9	1.7	6.3	223	2018	N	1			1							
Upbound	Domestic		4 764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2018	N	1			1							
Upbound	Domestic		4 000764	1484	200.0	35.0	8	9.0	2.0	6.0	160	2018	N	1			1							
Upbound	Domestic		4 764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2018	N	3			3							
Upbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	170	2018	N	2			2							
Upbound	Domestic		4 000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2018	N	2			2							
Upbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2018	N	21			21							
Upbound	Domestic		4 764	1536	200.0	35.0	8	9.0	1.7	6.3	180	2018	N	1			1							
Upbound	Domestic		4 000823	2603	200.0	35.0	7	12.0	1.7	5.3	250	2018	N	2			2							
Upbound	Domestic		4 764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2018	N	20			20							
Upbound	Domestic		4 764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2018	N	2			2							
Upbound	Domestic		4 000764	2200	200.0	35.0	8	12.0	2.0	6.0	194	2018	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	9	10.0	1.8	7.2	206	2018	N	1			1							
Upbound	Domestic		4 000764	2666	200.0	35.0	6	11.0	2.0	4.0	215	2018	N	1			1							
Upbound	Domestic		4 764	1648	200.0	35.0	10	11.0	1.5	8.5	186	2018	N	1			1							
Upbound	Domestic		4 000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2018	N	1			1							
Upbound	Domestic		4 764	2077	200.0	35.0	9	10.0	1.5	7.5	215	2018	N	1			1							
Upbound	Domestic		3 000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2018	N	38		38								
Upbound	Domestic		4 000687	1500	195.0	35.0	9	10.0	3.0	6.0	9999	2018	N	6			6							
Upbound	Domestic		4 000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2018	N	3			3							
Upbound	Domestic		4 770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2018	N	5			5							
Upbound	Domestic		4 764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2018	N	1			1							
Upbound	Domestic		4 000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 000764	1506	200.0	35.0	2	11.0	1.8	0.2	206	2018	N	1							1			
Upbound	Domestic		3 185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2018	N	10		10								
Upbound	Domestic		4 705	1885	200.0	35.0	2	10.0	1.4	0.6	208	2018	N	1							1			
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2018	N	3			3							
Upbound	Domestic		4 000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2018	N	5			5							
Upbound	Domestic		4 000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2018	N	1			1							
Upbound	Domestic		5 820	1422	195.0	35.0	9	9.0	1.1	7.9	194	2018	N	1					1					
Upbound	Domestic		4 764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2018	N	4			4							
Upbound	Domestic		4 000764	2397	200.0	35.0	6	13.0	1.7	4.3	208	2018	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	3.0	4.0	230	2018	N	1			1							
Upbound	Domestic		4 000764	1855	200.0	35.0	7	10.0	1.7	5.3	130	2018	N	1			1							
Upbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2018	N	1			1							
Upbound	Domestic		4 823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2018	N	1			1							
Upbound	Domestic		4 705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2018	N	1			1							
Upbound	Domestic		5 001619	4300	297.5	54.0	2	12.0	2.0	0.0	179	2018	N	1									1	
Upbound	Domestic		4 000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2018	N	5							5			
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2018	N	9			9							
Upbound	Domestic		5 1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2018	N	3					3					
Upbound	Domestic		4 770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2018	N	3			3							
Upbound	Domestic		4 705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2018	N	3			3							
Upbound	Domestic		4 745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2018	N	2			2							
Upbound	Domestic		4 000764	1865	200.0	35.0	8	10.0	1.5	6.5	139	2018	N	1			1							
Upbound	Domestic		5 001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2018	N	1					1					
Upbound	Domestic		4 000764	1484	200.0	35.0	9	9.0	2.0	7.0	160	2018	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	2	9.0	1.6	0.4	170	2018	N	1							1			
Upbound	Domestic		5 000796	2388	147.6	54.0	2	10.0	2.0	0.0	170	2018	N	1									1	
Upbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2018	N	1			1							
Upbound	Domestic		4 000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	9			9							
Upbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	213	2018	N	2			2							
Upbound	Domestic		4 000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2018	N	11			11							
Upbound	Domestic		4 764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2018	N	9			9							
Upbound	Domestic		4 764	1558	200.0	35.0	8	9.0	1.5	6.5	160	2018	N	2			2							
Upbound	Domestic		4 000764	1700	200.0	35.0	9	9.0	1.9	7.1	206	2018	N	1			1							
Upbound	Domestic		4 764	1875	200.0	35.0	7	10.0	1.7	5.3	191	2018	N	1			1							
Upbound	Domestic		5 773	1489	195.0	35.0	8	9.0	1.3	6.7	160	2018	N	1					1					
Upbound	Domestic		5 1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2018	N	1					1					
Upbound	Domestic		4 000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2018	N	7							7			
Upbound	Domestic		4 000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2018	N	3			3							
Upbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2018	N	6			6							
Upbound	Domestic		4 764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2018	N	2			2							
Upbound	Domestic		4 000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2018	N	5			5							
Upbound	Domestic		4 000764	1625	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1			1							
Upbound	Domestic		4 000764	1637	200.0	35.0	9	9.0	1.7	7.3	199	2018	N	1			1							
Upbound	Domestic		4 000764	2131	200.0	35.0	2	11.0	1.9	0.1	206	2018	N	1							1			
Upbound	Domestic		3 000318	609	147.0	38.0	8	9.0	8.0	0.0	470	2018	N	1		1								
Upbound	Domestic		4 764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	3			3							
Upbound	Domestic		4 764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2018	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2018	N	5			5							
Upbound	Domestic		4 000823	2400	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	4			4							
Upbound	Domestic		4 000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2018	N	2			2							
Upbound	Domestic		4 000745	1705	200.0	35.0	9	10.0	1.6	7.4	139	2018	N	2			2							
Upbound	Domestic		4 000823	1750	200.0	35.0	6	10.0	1.7	4.3	215	2018	N	1			1							
Upbound	Domestic		4 000764	1765	200.0	35.0	10	13.0	2.0	8.0	165	2018	N	1			1							
Upbound	Domestic		4 687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2018	N	1			1							
Upbound	Domestic		4 823	2059	200.0	35.0	6	8.0	1.6	4.4	25	2018	N	1			1							
Upbound	Domestic		4 764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2018	N	1			1							
Upbound	Domestic		5 001623	3200	297.7	54.1	2	9.0	2.0	0.0	180	2018	N	2									2	
Upbound	Domestic		4 000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2018	N	7			7							
Upbound	Domestic		4 802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2018	N	1			1							
Upbound	Domestic		4 799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2018	N	1			1							
Upbound	Domestic		4 000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2018	N	2			2							
Upbound	Domestic		4 000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2018	N	2			2							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	1.4	6.6	230	2018	N	1			1							
Upbound	Domestic		4 000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2018	N	3			3							
Upbound	Domestic		4 000764	2151	200.0	35.0	7	13.0	1.8	5.2	190	2018	N	1			1							
Upbound	Domestic		4 735	1422	200.0	35.0	8	8.0	2.0	6.0	165	2018	N	1			1							
Upbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2018	N	1			1							
Upbound	Domestic		4 764	1646	200.0	35.0	9	9.0	1.6	7.4	226	2018	N	1			1							
Upbound	Domestic		5 1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2018	N	6									6	
Upbound	Domestic		4 764	1855	200.0	35.0	8	10.0	1.5	6.5	165	2018	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2018	N	16			16							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2018	N	4			4							
Upbound	Domestic		4 000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2018	N	2			2							
Upbound	Domestic		4 764	1648	200.0	35.0	9	10.0	1.5	7.5	186	2018	N	1			1							
Upbound	Domestic		4 688	1542	200.0	35.0	7	9.0	1.5	5.5	210	2018	N	1			1							
Upbound	Domestic		4 705	2002	200.0	35.0	6	9.0	2.0	4.0	190	2018	N	1			1							
Upbound	Domestic		4 000764	1551	200.0	35.0	7	9.0	1.6	5.4	225	2018	N	1			1							
Upbound	Domestic		4 960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2018	N	4			4							
Upbound	Domestic		4 000823	2792	200.0	35.0	7	12.0	1.7	5.3	250	2018	N	1			1							
Upbound	Domestic		4 764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2018	N	1			1							
Upbound	Domestic		4 705	1552	200.0	35.0	9	9.0	1.5	7.5	223	2018	N	1			1							
Upbound	Domestic		4 705	3098	200.0	35.0	9	9.0	1.6	7.4	147	2018	N	1			1							
Upbound	Domestic		4 682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2018	N	2			2							
Upbound	Domestic		4 764	1552	200.0	35.0	2	9.0	1.5	0.5	163	2018	N	1							1			
Upbound	Domestic		4 000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2018	N	13			13							
Upbound	Domestic		4 802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2018	N	5			5							
Upbound	Domestic		4 764	1648	200.0	35.0	9	11.0	1.5	7.5	208	2018	N	1			1							
Upbound	Domestic		4 000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2018	N	1			1							
Upbound	Domestic		4 000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2018	N	2			2							
Upbound	Domestic		4 000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2018	N	2			2							
Upbound	Domestic		4 000764	2300	200.0	35.0	8	13.0	1.5	6.5	165	2018	N	1			1							
Upbound	Domestic		3 275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2018	N	2		2								
Upbound	Domestic		3 000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2018	N	2		2								
Upbound	Domestic		5 2356	2500	270.0	50.0	3	9.0	3.0	0.0	230	2018	N	8									8	
Upbound	Domestic		4 000764	1539	200.0	35.0	2	9.0	1.7	0.3	225	2018	N	1							1			
Upbound	Domestic		5 1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2018	N	2									2	
Upbound	Domestic		4 764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2018	N	7			7							
Upbound	Domestic		4 764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2018	N	3			3							
Upbound	Domestic		4 823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2018	N	3			3							
Upbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2018	N	5			5							
Upbound	Domestic		4 823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2018	N	3			3							
Upbound	Domestic		4 000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2018	N	9			9							
Upbound	Domestic		4 764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2018	N	2			2							
Upbound	Domestic		4 000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	8			8							
Upbound	Domestic		4 764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2018	N	3			3							
Upbound	Domestic		4 000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2018	N	5			5							
Upbound	Domestic		4 823	2310	200.0	35.0	7	12.0	1.5	5.5	225	2018	N	1			1							
Upbound	Domestic		4 000765	1642	200.0	35.0	8	9.0	1.8	6.2	180	2018	N	1			1							
Upbound	Domestic		4 764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	1			1							
Upbound	Domestic		4 601	1400	195.0	35.0	7	10.0	2.0	5.0	110	2018	N	13			13							
Upbound	Domestic		4 000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2018	N	1			1							
Upbound	Domestic		4 770	1769	200.0	35.0	10	10.0	1.5	8.5	149	2018	N	1			1							
Upbound	Domestic		4 764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2018	N	1			1							
Upbound	Domestic		4 000764	2406	200.0	35.0	7	13.0	1.6	5.4	120	2018	N	1			1							
Upbound	Domestic		4 000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2018	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		3 000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2018	N	4		4								
Upbound	Domestic		5 2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2018	N	3									3	
Upbound	Domestic		5 1721	3300	297.6	54.1	2	10.0	2.0	0.0	180	2018	N	1									1	
Upbound	Domestic		5 835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2018	N	14					14					
Upbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2018	N	4			4							
Upbound	Domestic		4 000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2018	N	2			2							
Upbound	Domestic		4 823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2018	N	3			3							
Upbound	Domestic		5 2476	2500	310.0	50.0	3	9.0	2.5	0.5	230	2018	N	6									6	
Upbound	Domestic		4 764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2018	N	1							1			
Upbound	Domestic		5 2917	2400	295.0	52.5	2	9.0	2.0	0.0	320	2018	N	3									3	
Upbound	Domestic		5 1619	4760	297.5	54.0	2	10.8	1.5	0.5	230	2018	N	1									1	
Upbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2018	N	3			3							
Upbound	Domestic		4 000823	2292	200.0	35.0	9	12.0	2.0	7.0	250	2018	N	4			4							
Upbound	Domestic		4 000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2018	N	3			3							
Upbound	Domestic		4 000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2018	N	2			2							
Upbound	Domestic		4 000823	2500	200.0	35.0	8	12.0	2.0	6.0	9999	2018	N	2			2							
Upbound	Domestic		4 000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2018	N	3			3							
Upbound	Domestic		4 705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2018	N	2			2							
Upbound	Domestic		4 000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2018	N	2			2							
Upbound	Domestic		4 000764	1653	200.0	35.0	7	8.0	2.0	5.0	210	2018	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	175	2018	N	1			1							
Upbound	Domestic		4 000764	1615	200.0	35.0	12	12.0	1.8	10.2	170	2018	N	2			2							
Upbound	Domestic		4 000764	2090	200.0	35.0	9	11.0	1.8	7.2	170	2018	N	1			1							
Upbound	Domestic		4 823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2018	N	1			1							
Upbound	Domestic		4 000823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2018	N	1			1							
Upbound	Domestic		4 000823	2200	200.0	35.0	6	12.0	2.0	4.0	165	2018	N	1			1							
Upbound	Domestic		3 390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2018	N	3		3								
Upbound	Domestic		5 1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2018	N	2									2	
Upbound	Domestic		4 000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2018	N	2							2			
Upbound	Domestic		3 000143	0	110.0	35.0	9	9.0	9.0	0.0	34	2018	N	5		5								
Upbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	2.0	5.0	9999	2018	N	2			2							
Upbound	Domestic		4 000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2018	N	3			3							
Upbound	Domestic		4 000764	2077	200.0	35.0	9	10.0	1.5	7.5	215	2018	N	1			1							
Upbound	Domestic		4 960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2018	N	2			2							
Upbound	Domestic		4 000764	1651	200.0	35.0	11	13.0	1.9	9.1	206	2018	N	1			1							
Upbound	Domestic		4 745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2018	N	5			5							
Upbound	Domestic		4 764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2018	N	1			1							
Upbound	Domestic		4 727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2018	N	1			1							
Upbound	Domestic		4 000764	1618	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1			1							
Upbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2018	N	2			2							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	2.0	6.0	165	2018	N	1			1							
Upbound	Domestic		4 000764	1504	200.0	35.0	10	10.0	1.9	8.1	206	2018	N	1			1							
Upbound	Domestic		4 000705	2070	200.0	35.0	10	12.0	2.0	8.0	21	2018	N	1			1							
Upbound	Domestic		5 1619	3300	297.0	54.0	2	9.0	2.0	0.0	180	2018	N	7									7	
Upbound	Domestic		4 000823	2469	200.0	35.0	3	10.0	1.5	1.5	175	2018	N	1							1			
Upbound	Domestic		5 1619	2812	297.5	54.0	2	9.6	1.5	0.5	175	2018	N	1									1	
Upbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	250	2018	N	1							1			
Upbound	Domestic		5 1993	3998	297.6	54.0	2	9.3	2.0	0.0	266	2018	N	1									1	
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2018	N	11			11							
Upbound	Domestic		4 823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2018	N	6			6							
Upbound	Domestic		4 764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2018	N	3			3							
Upbound	Domestic		4 823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2018	N	5			5							
Upbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2018	N	6			6							
Upbound	Domestic		4 000764	1609	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1			1							
Upbound	Domestic		4 799	1893	200.0	35.0	8	10.0	1.5	6.5	149	2018	N	1			1							
Upbound	Domestic		5 000687	1563	195.0	35.0	9	9.6	1.5	7.5	190	2018	N	1					1					
Upbound	Domestic		4 000823	1600	200.0	35.0	8	12.0	2.0	6.0	140	2018	N	1			1							
Upbound	Domestic		4 000764	1910	200.0	35.0	8	9.0	2.0	6.0	195	2018	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	7	9.0	1.6	5.4	170	2018	N	1			1							
Upbound	Domestic		4 000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2018	N	2			2							
Upbound	Domestic		4 764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2018	N	1			1							
Upbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2018	N	9			9							
Upbound	Domestic		4 000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2018	N	5			5							
Upbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2018	N	4			4							
Upbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	7			7							
Upbound	Domestic		4 000823	2800	200.0	35.0	7	12.0	2.0	5.0	225	2018	N	1			1							
Upbound	Domestic		4 000764	1855	200.0	35.0	8	10.0	1.7	6.3	130	2018	N	3			3							
Upbound	Domestic		4 688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2018	N	1			1							
Upbound	Domestic		5 000825	1485	195.0	35.0	9	9.0	1.8	7.2	194	2018	N	1					1					
Upbound	Domestic		4 771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2018	N	4			4							
Upbound	Domestic		4 000823	1600	195.0	35.0	8	12.0	2.0	6.0	140	2018	N	1			1							
Upbound	Domestic		3 189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2018	N	6		6								
Upbound	Domestic		4 000700	2290	200.0	35.0	2	12.0	1.6	0.4	250	2018	N	1							1			
Upbound	Domestic		4 000823	2292	200.0	35.0	2	12.0	2.0	0.0	250	2018	N	1							1			
Upbound	Domestic		5 001619	3595	297.5	54.0	2	9.0	2.0	0.0	200	2018	N	1									1	
Upbound	Domestic		4 000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2018	N	4			4							
Upbound	Domestic		4 000764	2090	200.0	35.0	8	11.0	1.6	6.4	210	2018	N	1			1							
Upbound	Domestic		4 823	2500	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	1			1							
Upbound	Domestic		4 764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2018	N	1			1							
Upbound	Domestic		4 000764	2651	200.0	35.0	9	9.0	1.6	7.4	206	2018	N	1			1							
Upbound	Domestic		4 799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2018	N	1			1							
Upbound	Domestic		5 001754	3665	297.5	54.0	10	12.0	2.0	8.0	180	2018	N	1					1					
Upbound	Domestic		4 823	1536	200.0	35.0	9	9.0	1.5	7.5	175	2018	N	1			1							
Upbound	Domestic		4 764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2018	N	1							1			
Upbound	Domestic		5 001623	4606	297.7	54.1	2	10.5	1.5	0.5	230	2018	N	1									1	
Upbound	Domestic		4 687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2018	N	1			1							
Upbound	Domestic		4 834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2018	N	3			3							
Upbound	Domestic		4 000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2018	N	2			2							
Upbound	Domestic		4 000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2018	N	9			9							
Upbound	Domestic		4 000802	1600	195.0	35.0	8	12.0	2.0	6.0	140	2018	N	5			5							
Upbound	Domestic		4 000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2018	N	1			1							
Upbound	Domestic		4 764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2018	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2018	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	10.0	1.7	6.3	160	2018	N	1			1							
Upbound	Domestic		4 745	1498	195.0	35.0	5	9.0	1.7	3.3	206	2018	N	1			1							
Upbound	Domestic		4 823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2018	N	12			12							
Upbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.8	6.2	206	2018	N	1			1							
Upbound	Domestic		4 000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2018	N	4			4							
Upbound	Domestic		4 000764	1652	200.0	35.0	11	12.0	3.0	8.0	215	2018	N	1			1							
Upbound	Domestic		4 764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2018	N	1			1							
Upbound	Domestic		4 000764	2151	200.0	35.0	10	13.0	2.0	8.0	170	2018	N	1			1							
Upbound	Domestic		4 000764	2090	200.0	35.0	8	12.0	1.8	6.2	170	2018	N	1			1							
Upbound	Domestic		4 706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	1			1							
Upbound	Domestic		5 1619	3660	297.5	54.0	9	11.0	2.0	7.0	160	2018	N	1					1					
Upbound	Domestic		5 1766	3164	290.0	54.0	2	9.0	1.8	0.2	180	2018	N	3									3	
Upbound	Domestic		5 2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2018	N	1									1	
Upbound	Domestic		4 000823	2469	200.0	35.0	10	10.0	3.0	7.0	9999	2018	N	1			1							
Upbound	Domestic		4 000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2018	N	3			3							
Upbound	Domestic		4 764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2018	N	8			8							
Upbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2018	N	4			4							
Upbound	Domestic		4 000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2018	N	1			1							
Upbound	Domestic		5 788	1488	195.0	35.0	8	9.0	2.5	5.5	140	2018	N	1					1					
Upbound	Domestic		4 740	1536	200.0	35.0	9	9.0	2.0	7.0	165	2018	N	1			1							
Upbound	Domestic		4 000823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2018	N	1			1							
Upbound	Domestic		4 000764	1651	200.0	35.0	2	13.0	1.9	0.1	206	2018	N	1							1			
Upbound	Domestic		3 34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2018	N	124		124								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2018	N	4			4							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2018	N	9			9							
Upbound	Domestic	4	000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2018	N	1			1							
Upbound	Domestic	4	000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2018	N	1			1							
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	3			3							
Upbound	Domestic	4	000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2018	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2018	N	3			3							
Upbound	Domestic	5	1619	3390	297.5	54.0	11	11.0	2.0	9.0	160	2018	N	2					2					
Upbound	Domestic	4	000823	2469	200.0	35.0	3	10.0	1.7	1.3	190	2018	N	2							2			
Upbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2018	N	1							1			
Upbound	Domestic	4	000764	1651	200.0	35.0	2	12.0	1.8	0.2	206	2018	N	1							1			
Upbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2018	N	117		117								
Upbound	Domestic	5	001619	3599	297.5	54.0	2	9.0	2.0	0.0	200	2018	N	2									2	
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2018	N	8			8							
Upbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	130	2018	N	1			1							
Upbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2018	N	1			1							
Upbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	12			12							
Upbound	Domestic	4	000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2018	N	3			3							
Upbound	Domestic	4	000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	4			4							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2018	N	5							5			
Upbound	Domestic	4	705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2018	N	1			1							
Upbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2018	N	4			4							
Upbound	Domestic	4	823	1800	200.0	35.0	12	9.0	1.5	10.5	180	2018	N	1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2018	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2018	N	1			1							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2018	N	1			1							
Upbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2018	N	9									9	
Upbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2018	N	1							1			
Upbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	9999	2018	N	1							1			
Upbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2018	N	3			3							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2018	N	10			10							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	12.0	2.0	10.0	208	2018	N	1			1							
Upbound	Domestic	4	823	2295	200.0	35.0	8	12.0	1.4	6.6	227	2018	N	1			1							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2018	N	3			3							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2018	N	23			23							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2018	N	6			6							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2018	N	4			4							
Upbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2018	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.5	6.5	9999	2018	N	2			2							
Upbound	Domestic	4	573	1500	195.0	35.0	7	10.0	2.0	5.0	110	2018	N	258			258							
Upbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	1			1							
Upbound	Domestic	5	001754	6100	297.5	54.0	7	12.0	2.0	5.0	180	2018	N	1					1					
Upbound	Domestic	4	322	1800	195.0	35.0	9	12.0	2.0	7.0	120	2018	N	1			1							
Upbound	Domestic	4	000764	2408	200.0	35.0	2	13.0	1.6	0.4	220	2018	N	1							1			
Upbound	Domestic	4	000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2018	N	2							2			
Upbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.6	0.4	211	2018	N	1							1			
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2018	N	4			4							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	5			5							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.5	5.5	175	2018	N	7			7							
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2018	N	5			5							
Upbound	Domestic	4	802	2544	195.0	35.0	5	14.0	1.7	3.3	210	2018	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2018	N	2			2							
Upbound	Domestic	4	764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2018	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2018	N	2			2							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2018	N	4			4							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2018	N	3			3							
Upbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.6	7.4	206	2018	N	1			1							
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2018	N	2									2	
Upbound	Domestic	4	823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2018	N	5			5							
Upbound	Domestic	4	000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	11.0	2.0	7.0	165	2018	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2018	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2018	N	2			2							
Upbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2018	N	1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2018	N	1			1							
Upbound	Domestic	4	764	1665	200.0	35.0	7	9.0	1.4	5.6	155	2018	N	1			1							
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2018	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	7	9.0	1.6	5.4	130	2018	N	1			1							
Upbound	Domestic	3	000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2018	N	1		1								
Upbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2018	N	2									2	
Upbound	Domestic	3	000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2018	N	21		21								
Upbound	Domestic	5	1619	4465	297.5	54.0	2	12.0	2.0	0.0	220	2018	N	1									1	
Upbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2018	N	2									2	
Upbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	120	2018	N	3			3							
Upbound	Domestic	4	000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2018	N	5			5							
Upbound	Domestic	4	000764	1504	200.0	35.0	12	13.0	1.9	10.1	206	2018	N	2			2							
Upbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2018	N	2			2							
Upbound	Domestic	4	687	1501	195.0	35.0	10	10.0	1.5	8.5	186	2018	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	220	2018	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2018	N	1			1							
Upbound	Domestic	4	823	2500	200.0	35.0	8	13.0	2.0	6.0	250	2018	N	1			1							
Upbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2018	N	1			1							
Upbound	Domestic	4	000764	2406	200.0	35.0	9	13.0	1.6	7.4	120	2018	N	1			1							
Upbound	Domestic	4	000764	1536	200.0	35.0	9	9.0	1.8	7.2	225	2018	N	1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2018	N	1			1							
Upbound	Domestic	5	1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2018	N	4									4	
Upbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2018	N	7									7	
Upbound	Domestic	5	1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2018	N	2									2	
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2018	N	11			11							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2018	N	5			5							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2018	N	3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2018	N	1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2018	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	216	2018	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2018	N	1			1							
Upbound	Domestic	4	705	1774	200.0	35.0	7	10.0	1.6	5.4	170	2018	N	1			1							
Upbound	Domestic	4	705	1625	200.0	35.0	8	9.0	4.7	3.3	231	2018	N	1			1							
Upbound	Domestic	3	000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2018	N	3		3								
Upbound	Domestic	4	764	1528	200.0	35.0	2	9.0	1.7	0.3	163	2018	N	2							2			
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2018	N	3			3							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2018	N	3			3							
Upbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2018	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2018	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2018	N	2			2							
Upbound	Domestic	4	000688	1511	195.0	35.0	9	9.0	1.5	7.5	170	2018	N	2			2							
Upbound	Domestic	4	000823	2735	200.0	35.0	2	12.0	1.7	0.3	250	2018	N	1							1			
Upbound	Domestic	4	802	2537	195.0	35.0	2	14.0	1.7	0.3	211	2018	N	1							1			
Upbound	Domestic	4	000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2018	N	2			2							
Upbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2018	N	1			1							
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2018	N	21			21							
Upbound	Domestic	4	764	1956	200.0	35.0	6	9.0	2.0	4.0	130	2018	N	1			1							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	9999	2018	N	1			1							
Upbound	Domestic	4	705	1877	200.0	35.0	8	10.0	1.5	6.5	146	2018	N	1			1							
Upbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2018	N	9			9							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2018	N	4			4							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2018	N	15			15							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2018	N	3			3							
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2018	N	1			1							
Upbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2018	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2018	N	1			1							
Upbound	Domestic	4	000700	2187	200.0	35.0	7	12.0	1.7	5.3	250	2018	N	1			1							
Upbound	Domestic	4	000764	2406	200.0	35.0	6	13.0	1.6	4.4	120	2018	N	1			1							
Upbound	Domestic	4	823	2059	200.0	35.0	2	14.0	1.6	0.4	25	2018	N	2							2			
Upbound	Domestic	5	1619	3390	297.5	54.0	2	11.0	2.0	0.0	160	2018	N	2									2	
Upbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2018	N	1							1			
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2018	N	4			4							
Upbound	Domestic	5	000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2018	N	3					3					
Upbound	Domestic	4	000823	2880	200.0	35.0	7	12.0	2.0	5.0	9999	2018	N	6			6							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2018	N	14			14							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2018	N	2			2							
Upbound	Domestic	4	663	1892	200.0	35.0	9	10.0	1.4	7.6	140	2018	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2018	N	1			1							
Upbound	Domestic	5	812	1283	195.0	35.0	9	8.6	2.0	7.0	151	2018	N	1					1					
Upbound	Domestic	4	000764	1964	200.0	35.0	7	9.0	2.0	5.0	196	2018	N	1			1							
Upbound	Domestic	4	823	2077	200.0	35.0	11	12.0	1.5	9.5	215	2018	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	8	13.0	1.6	6.4	165	2018	N	1			1							
Upbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2018	N	2		2								
Upbound	Domestic	4	000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2018	N	1							1			
Upbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2018	N	3		3								
Upbound	Domestic	5	1850	3149	290.0	52.5	2	9.0	1.5	0.5	180	2018	N	1									1	
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2018	N	14			14							
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	11			11							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2018	N	6			6							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	165	2018	N	4			4							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2018	N	29			29							
Upbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2018	N	4			4							
Upbound	Domestic	4	000823	1933	200.0	35.0	8	12.0	2.0	6.0	215	2018	N	1			1							
Upbound	Domestic	5	1619	3200	297.5	54.0	2	9.0	2.0	0.0	180	2018	N	4									4	
Upbound	Domestic	5	001151	3275	175.0	54.0	2	9.0	1.5	0.5	164	2018	N	2									2	
Upbound	Domestic	4	000764	1648	200.0	35.0	2	13.0	1.5	0.5	208	2018	N	1							1			
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2018	N	9			9							
Upbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2018	N	4			4							
Upbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2018	N	8			8							
Upbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	9999	2018	N	1			1							
Upbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2018	N	5			5							
Upbound	Domestic	4	000823	1933	200.0	35.0	7	12.0	2.0	5.0	215	2018	N	2			2							
Upbound	Domestic	4	000823	1933	200.0	35.0	6	12.0	2.0	4.0	215	2018	N	1			1							
Upbound	Domestic	4	000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2018	N	12			12							
Upbound	Domestic	4	000764	2408	200.0	35.0	8	13.0	1.6	6.4	220	2018	N	3			3							
Upbound	Domestic	5	766	1485	195.0	35.0	8	8.5	2.0	6.0	133	2018	N	1					1					
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2018	N	2			2							
Upbound	Domestic	4	000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2018	N	1			1							
Upbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2018	N	10			10							
Upbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	6			6							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2018	N	3			3							
Upbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2018	N	1			1							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2018	N	1			1							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2018	N	1			1							
Upbound	Domestic	4	843	1653	200.0	35.0	9	9.0	1.5	7.5	120	2018	N	2			2							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2018	N	1							1			
Upbound	Domestic	4	000823	1536	200.0	35.0	8	9.0	1.7	6.3	140	2018	N	3			3							
Upbound	Domestic	4	000705	1650	200.0	35.0	10	12.0	1.5	8.5	208	2018	N	1			1							
Upbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2018	N	3			3							
Upbound	Domestic	4	663	1892	200.0	35.0	8	10.0	1.4	6.6	140	2018	N	1			1							
Upbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	210	2018	N	1			1							
Upbound	Domestic	4	000745	2100	195.0	35.0	7	10.0	3.0	4.0	9999	2018	N	2			2							
Upbound	Domestic	4	000764	2406	200.0	35.0	6	13.0	1.0	5.0	120	2018	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2018	N	1			1							
Upbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2018	N	1			1							
Upbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2018	N	1			1							
Upbound	Domestic	4	000966	1664	200.0	35.0	7	9.0	1.5	5.5	165	2018	N	1			1							
Upbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2018	N	1			1							
Upbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2018	N	2			2							
Upbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2018	N	5			5							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2018	N	4			4							
Upbound	Domestic	4	000764	1619	200.0	35.0	11	9.0	3.0	8.0	9999	2018	N	1			1							
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2018	N	3			3							
Upbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2018	N	2			2							
Upbound	Domestic	4	764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2018	N	1			1							
Upbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2018	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2018	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	7	10.0	1.5	5.5	206	2018	N	1			1							
Upbound	Domestic	3	000143	999999	114.0	35.0	11	11.0	11.0	0.0	420	2018	N	40		40								
Upbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2018	N	1									1	
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2018	N	3			3							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2018	N	5			5							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2018	N	2			2							
Upbound	Domestic	4	000823	2000	200.0	35.0	8	12.0	2.0	6.0	100	2018	N	2			2							
Upbound	Domestic	4	000764	1739	200.0	35.0	8	10.0	1.7	6.3	130	2018	N	2			2							
Upbound	Domestic	4	764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2018	N	2			2							
Upbound	Domestic	4	705	1600	200.0	35.0	8	9.0	1.6	6.4	180	2018	N	2			2							
Upbound	Domestic	4	000745	2151	195.0	35.0	6	10.0	1.6	4.4	170	2018	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	1			1							
Upbound	Domestic	4	823	1624	200.0	35.0	8	9.0	1.6	6.4	191	2018	N	1			1							
Upbound	Domestic	4	688	1516	195.0	35.0	9	9.0	1.5	7.5	170	2018	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2018	N	1							1			
Upbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2018	N	1							1			
Upbound	Domestic	4	000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2018	N	3			3							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2018	N	4			4							
Upbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2018	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2018	N	1			1							
Upbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2018	N	1			1							
Upbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2018	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.6	6.4	165	2018	N	1			1							
Upbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2018	N	1		1								
Upbound	Domestic	5	1619	4298	297.5	54.0	2	12.0	2.0	0.0	220	2018	N	1									1	
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2018	N	11			11							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	11.0	1.8	6.2	170	2018	N	1			1							
Upbound	Domestic	4	000764	2151	200.0	35.0	8	13.0	1.8	6.2	190	2018	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2018	N	2			2							
Upbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2018	N	1			1							
Upbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2018	N	1			1							
Upbound	Domestic	4	000764	2000	200.0	35.0	9	11.0	2.0	7.0	9999	2018	N	1			1							
Upbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2018	N	1		1								
Upbound	Domestic	5	3084	2874	298.0	54.0	4	8.6	4.0	0.0	260	2018	N	1									1	
Upbound	Domestic	4	000823	2410	200.0	35.0	10	14.0	1.5	8.5	120	2018	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2018	N	4			4							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	120	2018	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2018	N	6			6							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2018	N	3			3							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	9.0	2.0	10.0	9999	2018	N	1			1							
Upbound	Domestic	4	000745	1705	195.0	35.0	6	10.0	1.6	4.4	139	2018	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Upbound	Domestic		4 000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2018	N	1			1							
Upbound	Domestic		4 687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2018	N	1			1							
Upbound	Domestic		4 000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2018	N	2			2							
Upbound	Domestic		5 835	1451	195.0	35.0	9	9.0	1.1	7.9	136	2018	N	2					2					
Upbound	Domestic		4 764	1869	200.0	35.0	9	10.0	1.7	7.3	191	2018	N	1			1							
Upbound	Domestic		4 000823	2398	200.0	35.0	8	13.0	1.7	6.3	256	2018	N	2			2							
Upbound	Domestic		4 000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2018	N	3			3							
Upbound	Domestic		4 823	2500	200.0	35.0	8	13.0	2.0	6.0	180	2018	N	1			1							
Upbound	Domestic		4 000705	2728	200.0	35.0	9	14.0	1.6	7.4	256	2018	N	1			1							
Upbound	Domestic		4 823	2194	200.0	35.0	2	8.0	1.4	0.6	25	2018	N	1							1			
Upbound	Domestic		4 000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2018	N	6							6			
Upbound	Domestic		3 000294	999999	114.0	35.0	11	11.0	11.0	0.0	420	2018	N	21		21								
Upbound	Domestic		4 764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2018	N	1							1			
Upbound	Domestic		4 000700	2187	200.0	35.0	2	12.0	1.7	0.3	250	2018	N	1							1			
Upbound	Domestic		5 000705	1650	200.0	35.0	2	9.6	2.0	0.0	189	2018	N	1									1	
Upbound	Domestic		5 001754	5262	297.5	54.0	2	11.0	2.0	0.0	9999	2018	N	1									1	
Upbound	Domestic		4 687	1724	195.0	35.0	2	10.0	1.5	0.5	206	2018	N	1							1			
Upbound	Domestic		4 745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2018	N	11			11							
Upbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2018	N	2			2							
Upbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	250	2018	N	8			8							
Upbound	Domestic		4 000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	12			12							
Upbound	Domestic		4 000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	9			9							
Upbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2018	N	3			3							
Upbound	Domestic		4 000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2018	N	5			5							
Upbound	Domestic		4 000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2018	N	1			1							
Upbound	Domestic		4 000764	2406	200.0	35.0	8	13.0	1.0	7.0	120	2018	N	2			2							
Upbound	Domestic		4 688	1511	195.0	35.0	9	9.0	1.5	7.5	170	2018	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	2	12.0	2.0	0.0	180	2018	N	1							1			
Upbound	Domestic		4 000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2018	N	2			2							
Upbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2018	N	4			4							
Upbound	Domestic		4 706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2018	N	7			7							
Upbound	Domestic		4 000823	2739	200.0	35.0	8	13.9	1.6	6.4	140	2018	N	1			1							
Upbound	Domestic		4 764	1530	200.0	35.0	9	9.0	1.6	7.4	154	2018	N	1			1							
Upbound	Domestic		4 764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2018	N	4			4							
Upbound	Domestic		4 000764	2100	200.0	35.0	7	12.0	2.0	5.0	165	2018	N	1			1							
Upbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	230	2018	N	1			1							
Upbound	Domestic		5 773	1489	195.1	35.1	9	9.0	1.8	7.2	166	2018	N	1					1					
Upbound	Domestic		3 000143	0	110.1	35.0	9	9.0	9.0	0.0	100	2018	N	10		10								
Upbound	Domestic		3 526	999999	147.0	38.5	10	9.0	7.5	2.5	420	2018	N	1		1								
Upbound	Domestic		4 823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2018	N	8			8							
Upbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	12			12							
Upbound	Domestic		4 000823	2469	200.0	35.0	6	10.0	3.0	3.0	9999	2018	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2018	N	6			6							
Upbound	Domestic		4 000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2018	N	2			2							
Upbound	Domestic		4 000764	2060	200.0	35.0	8	11.0	1.8	6.2	195	2018	N	1			1							
Upbound	Domestic		4 000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2018	N	3			3							
Upbound	Domestic		4 823	2194	200.0	35.0	6	8.0	1.4	4.6	25	2018	N	4			4							
Upbound	Domestic		4 000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2018	N	5			5							
Upbound	Domestic		4 000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2018	N	2			2							
Upbound	Domestic		4 573	1500	195.0	35.0	8	10.0	2.0	6.0	110	2018	N	78			78							
Upbound	Domestic		4 764	2100	200.0	35.0	8	12.0	1.5	6.5	186	2018	N	1			1							
Upbound	Domestic		4 764	2000	200.0	35.0	9	11.0	1.7	7.3	130	2018	N	1			1							
Upbound	Domestic		4 000764	1608	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1			1							
Upbound	Domestic		4 000745	1504	200.0	35.0	2	9.0	1.9	0.1	206	2018	N	2							2			
Upbound	Domestic		3 533	999999	140.0	42.0	7	8.6	6.6	0.4	430	2018	N	5		5								
Upbound	Domestic		3 131	999999	75.0	27.2	10	9.6	8.0	2.0	315	2018	N	1		1								
Downbound	Domestic		4 000764	1619	200.0	35.0	8	9.0	1.7	6.3	206	2018	N	1				1						
Downbound	Domestic		5 1850	3149	290.0	52.5	8	9.0	1.5	6.5	180	2018	N	2						2				
Downbound	Domestic		4 823	1642	200.0	35.0	9	9.0	1.6	7.4	260	2018	N	2				2						
Downbound	Domestic		3 216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2018	N	4		4								
Downbound	Domestic		4 000764	1600	200.0	35.0	2	9.0	1.5	0.5	180	2018	N	1								1		
Downbound	Domestic		5 820	1422	195.0	35.0	2	9.0	1.1	0.9	194	2018	N	2										2
Downbound	Domestic		4 000764	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2018	N	1								1		
Downbound	Domestic		4 000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	2				2						
Downbound	Domestic		4 000764	1653	200.0	35.0	5	9.0	2.0	3.0	210	2018	N	1				1						
Downbound	Domestic		4 823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2018	N	9				9						
Downbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2018	N	2				2						
Downbound	Domestic		4 764	1800	200.0	35.0	10	12.0	1.8	8.2	180	2018	N	1				1						
Downbound	Domestic		4 1619	3612	297.5	54.0	8	9.0	2.0	6.0	200	2018	N	2				2						
Downbound	Domestic		4 000764	2073	200.0	35.0	9	11.0	1.5	7.5	230	2018	N	1				1						
Downbound	Domestic		4 764	2062	200.0	35.0	2	9.0	2.0	0.0	130	2018	N	5								5		
Downbound	Domestic		4 000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2018	N	1				1						
Downbound	Domestic		4 999999	1541	200.0	35.0	8	9.0	1.6	6.4	143	2018	N	1				1						
Downbound	Domestic		5 001754	3665	297.5	54.0	10	11.0	2.0	8.0	180	2018	N	1						1				
Downbound	Domestic		5 001754	4400	297.0	54.0	8	11.0	0.6	7.4	280	2018	N	1						1				
Downbound	Domestic		3 101	999999	77.7	32.1	6	7.0	5.5	0.5	300	2018	N	1		1								
Downbound	Domestic		3 634	999999	145.0	48.0	9	10.0	9.0	0.0	426	2018	N	1		1								
Downbound	Domestic		3 000143	477	110.0	35.0	2	10.0	2.0	0.0	9999	2018	N	32		32								
Downbound	Domestic		4 000764	1677	200.0	35.0	2	9.0	1.4	0.6	165	2018	N	1								1		
Downbound	Domestic		4 000764	2292	200.0	35.0	2	11.0	2.0	0.0	225	2018	N	1								1		
Downbound	Domestic		3 81	999999	100.0	38.0	10	13.7	13.7	-3.7	360	2018	N	1		1								
Downbound	Domestic		4 000764	2007	200.0	35.0	3	10.0	2.0	1.0	9999	2018	N	2								2		
Downbound	Domestic		4 823	2469	200.0	35.0	2	14.0	1.6	0.4	250	2018	N	1								1		
Downbound	Domestic		4 705	1546	200.0	35.0	2	9.0	1.5	0.5	223	2018	N	1								1		
Downbound	Domestic		4 764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2018	N	3				3						
Downbound	Domestic		4 000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2018	N	1				1						
Downbound	Domestic		4 000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2018	N	10				10						
Downbound	Domestic		4 000823	2398	200.0	35.0	7	10.0	3.0	4.0	256	2018	N	1				1						
Downbound	Domestic		4 000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2018	N	1				1						
Downbound	Domestic		4 000823	2500	195.0	35.0	6	10.0	2.0	4.0	999	2018	N	1				1						
Downbound	Domestic		5 1419	3000	230.0	54.0	7	10.0	2.0	5.0	170	2018	N	1						1				
Downbound	Domestic		4 000745	1497	195.0	35.0	9	9.0	1.6	7.4	130	2018	N	1				1						
Downbound	Domestic		4 000823	2881	200.0	35.0	2	13.0	3.0	-1.0	9999	2018	N	12								12		
Downbound	Domestic		3 275	999999	114.0	30.0	10	9.3	9.3	0.7	420	2018	N	15		15								
Downbound	Domestic		4 000764	1615	200.0	35.0	2	11.0	1.8	0.2	170	2018	N	1								1		
Downbound	Domestic		4 688	1542	200.0	35.0	2	9.0	1.5	0.5	210	2018	N	1								1		
Downbound	Domestic		4 000764	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2018	N	1								1		
Downbound	Domestic		5 766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2018	N	1										1
Downbound	Domestic		3 000133	444	110.0	32.0	9	10.3	8.6	0.4	456	2018	N	1		1								
Downbound	Domestic		4 856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2018	N	2				2						
Downbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2018	N	38				38						
Downbound	Domestic		4 764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2018	N	3				3						
Downbound	Domestic		4 000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2018	N	6				6						
Downbound	Domestic		4 000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	6				6						
Downbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2018	N	9				9						
Downbound	Domestic		4 823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2018	N	1				1						
Downbound	Domestic		4 706	1575	200.0	35.0	9	9.0	1.6	7.4	205	2018	N	2				2						
Downbound	Domestic		4 687	1728	195.0	35.0	9	10.0	1.5	7.5	206	2018	N	1				1						
Downbound	Domestic		4 823	1643	200.0	35.0	12	12.0	1.3	10.7	9999	2018	N	1				1						
Downbound	Domestic		3 265	999999	120.0	35.0	7	7.5	7.0	0.0	400	2018	N	2		2								
Downbound	Domestic		3 349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2018	N	4		4								
Downbound	Domestic		5 890	1590	200.0	35.0	2	9.0	1.9	0.1	142	2018	N	1										1
Downbound	Domestic		4 000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2018	N	2								2		
Downbound	Domestic		4 000705	1648	200.0	35.0	2	12.0	1.5	0.5	186	2018	N	1								1		
Downbound	Domestic		5 1092	2100	175.0	54.0	9	8.5	1.3	7.7	180	2018	N	3						3				
Downbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2018	N	7				7						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2018	N	2				2						
Downbound	Domestic	5	1092	2100	175.0	54.0	8	8.5	1.3	6.7	180	2018	N	5						5				
Downbound	Domestic	5	001619	3595	297.5	54.0	8	9.0	2.0	6.0	200	2018	N	2						2				
Downbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2018	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2018	N	2				2						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2018	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2018	N	1				1						
Downbound	Domestic	5	886	886	200.0	35.0	2	9.0	1.9	0.1	125	2018	N	1										1
Downbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.7	0.3	199	2018	N	3								3		
Downbound	Domestic	4	000706	1557	200.0	35.0	2	9.0	1.6	0.4	205	2018	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2018	N	12								12		
Downbound	Domestic	4	799	1893	200.0	35.0	2	10.0	1.5	0.5	149	2018	N	1								1		
Downbound	Domestic	4	000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2018	N	3				3						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	6				6						
Downbound	Domestic	5	2840	2800	298.0	54.0	8	8.6	4.0	4.0	260	2018	N	5						5				
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2018	N	6				6						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2018	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2018	N	1				1						
Downbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2018	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2018	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	13	12.0	2.0	11.0	208	2018	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	154	2018	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2018	N	16								16		
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2018	N	10								10		
Downbound	Domestic	4	000823	2792	200.0	35.0	2	12.0	1.7	0.3	250	2018	N	1								1		
Downbound	Domestic	5	812	1283	195.0	35.0	2	8.6	2.0	0.0	151	2018	N	1										1
Downbound	Domestic	4	000764	2007	200.0	35.0	3	14.0	3.0	0.0	9999	2018	N	1								1		
Downbound	Domestic	4	000823	2300	200.0	35.0	10	12.0	1.5	8.5	165	2018	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	4				4						
Downbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2018	N	4				4						
Downbound	Domestic	4	000764	2397	200.0	35.0	9	13.0	1.7	7.3	208	2018	N	7				7						
Downbound	Domestic	4	000705	1648	200.0	35.0	12	12.0	1.5	10.5	186	2018	N	1				1						
Downbound	Domestic	4	000764	1910	200.0	35.0	11	13.0	3.0	8.0	206	2018	N	1				1						
Downbound	Domestic	4	688	1912	195.0	35.0	8	10.0	1.7	6.3	160	2018	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	11	12.0	2.0	9.0	180	2018	N	2						2				
Downbound	Domestic	3	263	999999	147.0	38.0	7	8.6	7.0	0.0	179	2018	N	2		2								
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2018	N	8				8						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	9999	2018	N	2				2						
Downbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2018	N	4				4						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	214	2018	N	1				1						
Downbound	Domestic	5	001619	4337	297.5	54.0	8	12.0	2.0	6.0	223	2018	N	1						1				
Downbound	Domestic	4	000687	1534	200.0	35.0	8	9.0	1.6	6.4	160	2018	N	1				1						
Downbound	Domestic	4	000764	1677	200.0	35.0	7	8.0	1.6	5.4	165	2018	N	1				1						
Downbound	Domestic	4	764	1652	200.0	35.0	9	9.0	1.5	7.5	217	2018	N	1				1						
Downbound	Domestic	4	764	1640	200.0	35.0	2	9.0	1.5	0.5	225	2018	N	1								1		
Downbound	Domestic	5	001623	3200	297.7	54.1	9	9.0	2.0	7.0	180	2018	N	10						10				
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2018	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	180	2018	N	3				3						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2018	N	3				3						
Downbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	250	2018	N	3				3						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	12				12						
Downbound	Domestic	4	000802	2406	105.0	35.0	8	10.0	2.0	6.0	9999	2018	N	1				1						
Downbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2018	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	9	9.0	1.4	7.6	160	2018	N	2				2						
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2018	N	1				1						
Downbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2018	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	191	2018	N	1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	2.0	0.0	9999	2018	N	2								2		
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2018	N	28										28
Downbound	Domestic	4	000764	1854	200.0	35.0	2	10.0	1.6	0.4	130	2018	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	10.0	1.6	0.4	170	2018	N	1								1		
Downbound	Domestic	4	823	2500	200.0	35.0	2	13.0	2.0	0.0	180	2018	N	1								1		
Downbound	Domestic	4	000823	2468	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	2				2						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2018	N	14				14						
Downbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2018	N	2				2						
Downbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2018	N	3				3						
Downbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2018	N	6				6						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	191	2018	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2018	N	1				1						
Downbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2018	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	2	11.0	1.8	0.2	120	2018	N	1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.5	0.5	205	2018	N	1								1		
Downbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2018	N	4				4						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2018	N	2				2						
Downbound	Domestic	5	1619	3300	297.5	54.0	8	9.0	2.0	6.0	180	2018	N	10						10				
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2018	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	10	14.0	1.5	8.5	165	2018	N	1				1						
Downbound	Domestic	5	1993	3998	297.6	54.0	8	9.3	2.0	6.0	266	2018	N	2						2				
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2018	N	9		9								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2018	N	14								14		
Downbound	Domestic	4	823	2743	200.0	35.0	2	14.0	1.5	0.5	241	2018	N	1								1		
Downbound	Domestic	4	705	1629	200.0	35.0	8	9.0	1.5	6.5	231	2018	N	1				1						
Downbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2018	N	4				4						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2018	N	2				2						
Downbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2018	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2018	N	3				3						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	212	2018	N	1				1						
Downbound	Domestic	4	687	1500	195.0	35.0	8	9.0	1.6	6.4	210	2018	N	3				3						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	1				1						
Downbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2018	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	2	11.0	1.8	0.2	195	2018	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2018	N	15				15						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2018	N	9				9						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2018	N	10				10						
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2018	N	11				11						
Downbound	Domestic	4	000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2018	N	1				1						
Downbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2018	N	1				1						
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2018	N	7								7		
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2018	N	10								10		
Downbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	450	2018	N	1		1								
Downbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2018	N	2				2						
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2018	N	3				3						
Downbound	Domestic	4	764	1800	200.0	35.0	11	12.0	1.8	9.2	130	2018	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2018	N	3				3						
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2018	N	2								2		
Downbound	Domestic	3	75	999999	55.5	24.0	9	8.5	8.5	0.5	220	2018	N	137		137								
Downbound	Domestic	3	000195	999999	78.0	34.0	8	11.0	8.0	0.0	470	2018	N	1		1								
Downbound	Domestic	4	000764	1910	200.0	35.0	2	9.0	2.0	0.0	195	2018	N	3								3		
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	5				5						
Downbound	Domestic	4	000823	2058	200.0	35.0	11	12.0	2.0	9.0	9999	2018	N	3				3						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2018	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	1				1						
Downbound	Domestic	4	745	1916	195.0	35.0	9	11.0	1.5	7.5	149	2018	N	3				3						
Downbound	Domestic	4	000764	1615	200.0	35.0	11	12.0	1.8	9.2	170	2018	N	2				2						
Downbound	Domestic	5	1721	3300	297.6	54.1	9	10.0	2.0	7.0	180	2018	N	2						2				

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	763	2290	195.0	35.0	2	12.0	1.7	0.3	235	2018	N	1								1		
Downbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	230	2018	N	1								1		
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2018	N	17				17						
Downbound	Domestic	4	000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2018	N	4				4						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	11.0	2.0	5.0	225	2018	N	1				1						
Downbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2018	N	4				4						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	12.0	1.6	6.4	250	2018	N	1				1						
Downbound	Domestic	5	3084	2874	298.0	54.0	8	8.6	4.0	4.0	260	2018	N	5						5				
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2018	N	5				5						
Downbound	Domestic	4	705	1652	200.0	35.0	8	9.0	1.4	6.6	194	2018	N	4				4						
Downbound	Domestic	4	000764	2532	200.0	35.0	8	13.0	1.5	6.5	120	2018	N	4				4						
Downbound	Domestic	4	000764	2292	200.0	35.0	6	12.0	1.8	4.2	210	2018	N	1				1						
Downbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2018	N	1				1						
Downbound	Domestic	3	000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2018	N	2		2								
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2018	N	3								3		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	120	2018	N	1								1		
Downbound	Domestic	4	000764	1855	200.0	35.0	2	10.0	1.7	0.3	130	2018	N	1								1		
Downbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2018	N	1								1		
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	130	2018	N	1				1						
Downbound	Domestic	5	1619	3200	297.5	54.0	9	9.0	2.0	7.0	180	2018	N	10						10				
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	3				3						
Downbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2018	N	4				4						
Downbound	Domestic	4	000764	1855	200.0	35.0	9	10.0	1.7	7.3	130	2018	N	2				2						
Downbound	Domestic	4	000764	1504	200.0	35.0	13	13.0	1.9	11.1	206	2018	N	1				1						
Downbound	Domestic	4	000764	1800	200.0	35.0	8	9.0	2.0	6.0	130	2018	N	3				3						
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	250	2018	N	3								3		
Downbound	Domestic	4	000764	1556	200.0	35.0	2	9.0	1.6	0.4	225	2018	N	2								2		
Downbound	Domestic	5	788	1488	195.0	35.0	3	9.0	2.5	0.5	140	2018	N	1										1
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2018	N	2								2		
Downbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2018	N	4				4						
Downbound	Domestic	4	764	1639	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	3				3						
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	155	2018	N	2								2		
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2018	N	3				3						
Downbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2018	N	1				1						
Downbound	Domestic	5	1819	3100	281.7	54.0	9	9.0	2.0	7.0	180	2018	N	6						6				
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	181	2018	N	1				1						
Downbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2018	N	1				1						
Downbound	Domestic	5	1619	4465	297.5	54.0	9	12.0	2.0	7.0	220	2018	N	2						2				
Downbound	Domestic	4	764	1969	200.0	35.0	2	10.5	1.7	0.3	180	2018	N	1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	2	12.0	2.0	0.0	165	2018	N	1								1		
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2018	N	10				10						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	155	2018	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2018	N	3				3						
Downbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2018	N	2				2						
Downbound	Domestic	4	000764	1553	200.0	35.0	8	9.0	1.6	6.4	130	2018	N	2				2						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2018	N	16				16						
Downbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2018	N	1				1						
Downbound	Domestic	4	764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2018	N	1				1						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	4				4						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2018	N	4				4						
Downbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2018	N	1				1						
Downbound	Domestic	5	001151	3275	175.0	54.0	8	9.0	1.5	6.5	164	2018	N	2						2				
Downbound	Domestic	5	001754	5262	297.5	54.0	7	11.0	2.0	5.0	9999	2018	N	1						1				
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2018	N	16								16		
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2018	N	2								2		
Downbound	Domestic	4	764	1652	200.0	35.0	2	9.0	1.5	0.5	217	2018	N	1								1		
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2018	N	4				4						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2018	N	4				4						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.5	7.5	165	2018	N	1				1						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2018	N	4				4						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2018	N	3				3						
Downbound	Domestic	5	1922	4144	300.0	54.0	9	12.0	1.0	8.0	165	2018	N	2						2				
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2018	N	3				3						
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2018	N	2				2						
Downbound	Domestic	4	705	1625	200.0	35.0	9	9.0	4.7	4.3	231	2018	N	1				1						
Downbound	Domestic	5	1660	3400	297.6	54.1	8	9.0	2.0	6.0	180	2018	N	3						3				
Downbound	Domestic	4	000823	1600	200.0	35.0	2	12.0	2.0	0.0	140	2018	N	1								1		
Downbound	Domestic	4	000764	1637	200.0	35.0	2	9.0	1.7	0.3	199	2018	N	1								1		
Downbound	Domestic	4	705	1877	200.0	35.0	2	10.0	1.5	0.5	146	2018	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	3.0	0.0	9999	2018	N	1								1		
Downbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2018	N	1				1						
Downbound	Domestic	4	823	2469	200.0	35.0	10	14.0	2.0	8.0	191	2018	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2018	N	2				2						
Downbound	Domestic	4	823	2500	200.0	35.0	8	12.0	2.0	6.0	218	2018	N	1				1						
Downbound	Domestic	4	000764	2408	200.0	35.0	9	13.0	1.6	7.4	220	2018	N	2				2						
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2018	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2018	N	2				2						
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2018	N	2				2						
Downbound	Domestic	4	823	2188	200.0	35.0	2	12.0	1.6	0.4	225	2018	N	1								1		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2018	N	3										3
Downbound	Domestic	4	764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2018	N	4				4						
Downbound	Domestic	4	000745	1648	195.0	35.0	11	12.0	1.5	9.5	186	2018	N	3				3						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	170	2018	N	2				2						
Downbound	Domestic	4	823	2194	200.0	35.0	10	13.0	1.4	8.6	25	2018	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2018	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2018	N	5				5						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2018	N	15				15						
Downbound	Domestic	4	000823	2603	200.0	35.0	7	12.0	1.7	5.3	250	2018	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	2.0	5.0	9999	2018	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2018	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	194	2018	N	1				1						
Downbound	Domestic	4	764	1559	200.0	35.0	9	9.0	1.5	7.5	170	2018	N	1				1						
Downbound	Domestic	3	000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2018	N	38		38								
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	218	2018	N	5								5		
Downbound	Domestic	4	823	1627	200.0	35.0	2	9.0	1.8	0.2	230	2018	N	1								1		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2018	N	5								5		
Downbound	Domestic	4	000764	1506	200.0	35.0	2	12.0	1.8	0.2	206	2018	N	2								2		
Downbound	Domestic	4	000764	2500	200.0	35.0	6	9.0	1.6	4.4	9999	2018	N	1				1						
Downbound	Domestic	5	1619	2812	297.5	54.0	10	9.6	1.5	8.5	175	2018	N	2						2				
Downbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2018	N	10				10						
Downbound	Domestic	4	000687	1500	195.0	35.0	9	10.0	3.0	6.0	9999	2018	N	3				3						
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2018	N	2				2						
Downbound	Domestic	4	764	1900	200.0	35.0	8	10.0	1.5	6.5	210	2018	N	1				1						
Downbound	Domestic	4	000764	1560	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1				1						
Downbound	Domestic	5	814	2442	148.0	54.0	7	9.0	2.0	5.0	180	2018	N	2						2				
Downbound	Domestic	3	185	999999	135.0	32.0	6	6.0	6.0	0.0	400	2018	N	9		9								
Downbound	Domestic	3	634	999999	145.0	48.0	9	9.0	8.6	0.4	426	2018	N	1		1								
Downbound	Domestic	4	764	1531	200.0	35.0	2	9.0	1.6	0.4	204	2018	N	1								1		
Downbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.5	0.5	165	2018	N	1								1		
Downbound	Domestic	5	001754	6100	297.5	54.0	2	12.0	2.0	0.0	180	2018	N	1										1
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2018	N	3				3						
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2018	N	13				13						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	155	2018	N	2				2						
Downbound	Domestic	4	000764	1933	200.0	35.0	7	10.0	2.0	5.0	215	2018	N	2				2						
Downbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2018	N	5				5						
Downbound	Domestic	4	000764	1619	200.0	35.0	9	10.0	3.0	6.0	206	2018	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	230	2018	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	1.7	1.3	160	2018	N	4								4		
Downbound	Domestic	4	000764	1739	200.0	35.0	2	10.0	1.7	0.3	130	2018	N	1								1		
Downbound	Domestic	4	000764	2200	200.0	35.0	2	12.0	2.0	0.0	165	2018	N	1								1		
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2018	N	3				3						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2018	N	10				10						
Downbound	Domestic	4	000764	1910	200.0	35.0	7	12.0	2.0	5.0	210	2018	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2018	N	6								6		
Downbound	Domestic	5	1844	3619	297.6	54.1	8	9.3	1.9	6.1	275	2018	N	2						2				
Downbound	Domestic	4	000823	2398	200.0	35.0	9	13.0	1.7	7.3	256	2018	N	2				2						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2018	N	5				5						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2018	N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.5	6.5	148	2018	N	1				1						
Downbound	Domestic	5	1619	3390	297.5	54.0	10	11.0	2.0	8.0	160	2018	N	2						2				
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.6	0.4	170	2018	N	1								1		
Downbound	Domestic	4	000764	1653	200.0	35.0	2	9.0	2.0	0.0	210	2018	N	1								1		
Downbound	Domestic	4	705	1650	200.0	35.0	2	9.0	1.5	0.5	208	2018	N	1								1		
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2018	N	11						11				
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	9				9						
Downbound	Domestic	4	000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2018	N	11				11						
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2018	N	10				10						
Downbound	Domestic	4	764	1875	200.0	35.0	9	10.0	1.7	7.3	191	2018	N	1				1						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	12.0	1.5	7.5	165	2018	N	1				1						
Downbound	Domestic	4	000764	1910	200.0	35.0	3	13.0	3.0	0.0	206	2018	N	1								1		
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2018	N	13								13		
Downbound	Domestic	4	687	1500	195.0	35.0	2	12.0	2.0	0.0	149	2018	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	7	12.0	1.8	5.2	210	2018	N	3				3						
Downbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2018	N	2				2						
Downbound	Domestic	5	1619	3300	297.0	54.0	8	9.0	2.0	6.0	180	2018	N	16						16				
Downbound	Domestic	4	764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2018	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2018	N	5				5						
Downbound	Domestic	4	000764	1625	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1				1						
Downbound	Domestic	5	834	2502	147.6	54.0	7	9.5	1.5	5.5	185	2018	N	1						1				
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2018	N	2		2								
Downbound	Domestic	4	823	2500	200.0	35.0	2	12.0	2.0	0.0	218	2018	N	2								2		
Downbound	Domestic	4	601	1400	195.0	35.0	2	10.0	2.0	0.0	110	2018	N	13								13		
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2018	N	2				2						
Downbound	Domestic	4	000823	2400	200.0	35.0	8	12.0	2.0	6.0	250	2018	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2018	N	3				3						
Downbound	Domestic	4	727	1772	200.0	35.0	8	10.0	1.5	6.5	148	2018	N	2				2						
Downbound	Domestic	4	000745	1705	200.0	35.0	9	10.0	1.6	7.4	139	2018	N	2				2						
Downbound	Domestic	4	000764	1651	200.0	35.0	12	13.0	1.9	10.1	206	2018	N	1				1						
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2018	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	3				3						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.6	7.4	207	2018	N	1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2018	N	1				1						
Downbound	Domestic	4	687	1605	195.0	35.0	9	9.5	1.5	7.5	146	2018	N	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2018	N	18								18		
Downbound	Domestic	4	000745	2235	200.0	35.0	2	15.0	3.0	-1.0	9999	2018	N	1								1		
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2018	N	4				4						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	180	2018	N	1				1						
Downbound	Domestic	4	000823	2410	200.0	35.0	9	14.0	1.5	7.5	120	2018	N	1				1						
Downbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2018	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2018	N	3				3						
Downbound	Domestic	4	799	1893	200.0	35.0	9	10.0	1.5	7.5	149	2018	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	13	13.0	1.5	11.5	255	2018	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	3.0	8.0	9999	2018	N	3				3						
Downbound	Domestic	4	000764	1504	200.0	35.0	9	10.0	1.9	7.1	206	2018	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	9	11.0	1.8	7.2	206	2018	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	1.4	6.6	230	2018	N	1				1						
Downbound	Domestic	4	735	1422	200.0	35.0	8	8.0	2.0	6.0	165	2018	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	206	2018	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	9	9.0	1.7	7.3	165	2018	N	1				1						
Downbound	Domestic	5	1619	4298	297.5	54.0	9	12.0	2.0	7.0	220	2018	N	2						2				
Downbound	Domestic	3	276	999999	113.1	34.0	7	8.0	7.0	0.0	388	2018	N	1		1								
Downbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2018	N	2								2		
Downbound	Domestic	4	000823	2400	200.0	35.0	2	11.0	2.0	0.0	9999	2018	N	1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	2.0	0.0	216	2018	N	1								1		
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2018	N	4				4						
Downbound	Domestic	4	764	1855	200.0	35.0	8	10.0	1.5	6.5	165	2018	N	1				1						
Downbound	Domestic	5	1619	3891	297.0	54.0	9	12.0	1.5	7.5	175	2018	N	4						4				
Downbound	Domestic	4	000823	2792	200.0	35.0	7	12.0	1.7	5.3	250	2018	N	1				1						
Downbound	Domestic	4	764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2018	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2018	N	2				2						
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2018	N	2				2						
Downbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2018	N	2				2						
Downbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2018	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	9	10.0	1.5	7.5	186	2018	N	1				1						
Downbound	Domestic	4	764	1554	200.0	35.0	9	9.0	1.5	7.5	170	2018	N	1				1						
Downbound	Domestic	4	000823	2000	200.0	35.0	2	12.0	2.0	0.0	100	2018	N	2								2		
Downbound	Domestic	4	000764	1619	200.0	35.0	3	10.0	3.0	0.0	206	2018	N	1								1		
Downbound	Domestic	4	573	1500	195.0	35.0	2	10.0	2.0	0.0	110	2018	N	350								350		
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2018	N	1								1		
Downbound	Domestic	4	705	3098	200.0	35.0	9	9.0	1.6	7.4	147	2018	N	1				1						
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2018	N	3				3						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2018	N	13				13						
Downbound	Domestic	4	823	2304	200.0	35.0	9	12.0	1.5	7.5	190	2018	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	11	12.0	1.8	9.2	206	2018	N	2				2						
Downbound	Domestic	4	000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2018	N	2				2						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2018	N	1				1						
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2018	N	2				2						
Downbound	Domestic	3	275	999999	114.0	30.0	9	9.3	9.3	-0.3	420	2018	N	2		2								
Downbound	Domestic	3	000235	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2018	N	2		2								
Downbound	Domestic	4	764	1558	200.0	35.0	2	9.0	1.5	0.5	160	2018	N	1								1		
Downbound	Domestic	4	190	541	110.0	30.0	1	7.0	1.0	0.0	70	2018	N	1								1		
Downbound	Domestic	4	000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2018	N	1								1		
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2018	N	10				10						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2018	N	9				9						
Downbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2018	N	3				3						
Downbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2018	N	3				3						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2018	N	6				6						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2018	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2018	N	5				5						
Downbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2018	N	4				4						
Downbound	Domestic	4	823	1732	200.0	35.0	8	9.6	1.7	6.3	208	2018	N	2				2						
Downbound	Domestic	4	000745	1507	195.0	35.0	8	9.0	1.6	6.4	139	2018	N	4				4						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2018	N	1				1						
Downbound	Domestic	4	000764	1700	200.0	35.0	7	9.0	1.9	5.1	206	2018	N	1				1						
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2018	N	3				3						
Downbound	Domestic	4	000765	1642	200.0	35.0	8	9.0	1.8	6.2	180	2018	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	10	10.0	1.8	8.2	206	2018	N	1				1						
Downbound	Domestic	4	771	1541	200.0	35.0	9	9.0	1.6	7.4	212	2018	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	1				1						
Downbound	Domestic	3	000143	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2018	N	4		4								
Downbound	Domestic	4	000764	1625	200.0	35.0	3	9.0	3.0	0.0	9999	2018	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		4 000705	2728	200.0	35.0	2	14.0	1.6	0.4	256	2018	N	1								1		
Downbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2018	N	6				6						
Downbound	Domestic		4 823	2469	200.0	35.0	9	14.0	1.6	7.4	250	2018	N	2				2						
Downbound	Domestic		4 764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2018	N	1				1						
Downbound	Domestic		4 000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2018	N	1								1		
Downbound	Domestic		4 764	1879	200.0	35.0	8	10.0	1.5	6.5	218	2018	N	1				1						
Downbound	Domestic		4 823	2077	200.0	35.0	11	11.0	1.5	9.5	215	2018	N	1				1						
Downbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	175	2018	N	2				2						
Downbound	Domestic		4 000823	2292	200.0	35.0	9	12.0	2.0	7.0	250	2018	N	3				3						
Downbound	Domestic		4 000823	2500	200.0	35.0	8	12.0	2.0	6.0	9999	2018	N	3				3						
Downbound	Domestic		5 001619	4300	297.5	54.0	8	12.0	2.0	6.0	179	2018	N	1						1				
Downbound	Domestic		4 000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2018	N	2				2						
Downbound	Domestic		4 000745	1497	195.0	35.0	8	9.0	1.6	6.4	130	2018	N	4				4						
Downbound	Domestic		4 705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2018	N	2				2						
Downbound	Domestic		4 000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2018	N	2				2						
Downbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2018	N	1				1						
Downbound	Domestic		4 000719	1553	200.0	35.0	9	9.0	2.0	7.0	130	2018	N	1				1						
Downbound	Domestic		3 390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2018	N	4		4								
Downbound	Domestic		4 000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2018	N	18								18		
Downbound	Domestic		3 000143	0	110.0	35.0	9	9.0	9.0	0.0	34	2018	N	4		4								
Downbound	Domestic		4 764	1854	200.0	35.0	2	10.0	1.6	0.4	224	2018	N	1								1		
Downbound	Domestic		4 687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2018	N	5				5						
Downbound	Domestic		4 000764	2292	200.0	35.0	7	10.0	2.0	5.0	9999	2018	N	2				2						
Downbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	2.0	6.0	165	2018	N	4				4						
Downbound	Domestic		4 000764	2077	200.0	35.0	9	10.0	1.5	7.5	215	2018	N	2				2						
Downbound	Domestic		5 001619	4300	297.5	54.0	9	12.0	2.0	7.0	179	2018	N	1						1				
Downbound	Domestic		4 745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2018	N	7				7						
Downbound	Domestic		4 764	1637	200.0	35.0	9	9.0	1.5	7.5	155	2018	N	1				1						
Downbound	Domestic		5 1400	4196	297.0	54.0	8	12.0	2.0	6.0	200	2018	N	2						2				
Downbound	Domestic		4 000764	2200	200.0	35.0	8	10.0	3.0	5.0	9999	2018	N	2				2						
Downbound	Domestic		4 000764	1541	200.0	35.0	9	9.0	1.8	7.2	225	2018	N	1				1						
Downbound	Domestic		4 000823	2200	200.0	35.0	9	12.0	2.0	7.0	215	2018	N	1				1						
Downbound	Domestic		4 823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2018	N	6				6						
Downbound	Domestic		4 764	1600	200.0	35.0	9	9.0	1.6	7.4	165	2018	N	4				4						
Downbound	Domestic		4 000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2018	N	4				4						
Downbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2018	N	15				15						
Downbound	Domestic		4 000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2018	N	4				4						
Downbound	Domestic		4 823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2018	N	2				2						
Downbound	Domestic		4 764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2018	N	4				4						
Downbound	Domestic		4 000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2018	N	1				1						
Downbound	Domestic		4 823	1643	200.0	35.0	12	12.0	1.5	10.5	9999	2018	N	1				1						
Downbound	Domestic		4 000764	1609	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1				1						
Downbound	Domestic		5 2688	2800	298.0	54.0	8	8.6	4.0	4.0	260	2018	N	2						2				
Downbound	Domestic		4 000764	2151	200.0	35.0	10	13.0	1.8	8.2	190	2018	N	2				2						
Downbound	Domestic		4 000823	1600	200.0	35.0	8	12.0	2.0	6.0	140	2018	N	1				1						
Downbound	Domestic		4 772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2018	N	1				1						
Downbound	Domestic		4 706	1578	200.0	35.0	2	9.0	1.5	0.5	205	2018	N	3								3		
Downbound	Domestic		4 000764	2488	200.0	35.0	2	12.0	1.6	0.4	9999	2018	N	1								1		
Downbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.6	7.4	210	2018	N	9				9						
Downbound	Domestic		4 764	1636	200.0	35.0	8	9.0	1.5	6.5	180	2018	N	4				4						
Downbound	Domestic		4 000764	1855	200.0	35.0	8	10.0	1.7	6.3	130	2018	N	3				3						
Downbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2018	N	12				12						
Downbound	Domestic		4 000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2018	N	7				7						
Downbound	Domestic		4 000823	2800	200.0	35.0	7	12.0	2.0	5.0	225	2018	N	1				1						
Downbound	Domestic		5 1766	3164	290.0	54.0	9	9.0	1.8	7.2	180	2018	N	2						2				
Downbound	Domestic		4 764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2018	N	1				1						
Downbound	Domestic		4 823	2500	200.0	35.0	9	12.0	2.0	7.0	250	2018	N	1				1						
Downbound	Domestic		4 688	2142	195.0	35.0	8	11.0	1.5	6.5	160	2018	N	1				1						
Downbound	Domestic		5 001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2018	N	7						7				
Downbound	Domestic		4 771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2018	N	2				2						
Downbound	Domestic		5 000796	2388	147.6	54.0	8	10.0	2.0	6.0	170	2018	N	3						3				
Downbound	Domestic		3 189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2018	N	4		4								
Downbound	Domestic		4 000823	2292	200.0	35.0	2	12.0	2.0	0.0	250	2018	N	4								4		
Downbound	Domestic		4 000706	1569	200.0	35.0	2	9.0	1.6	0.4	205	2018	N	1								1		
Downbound	Domestic		4 764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2018	N	2								2		
Downbound	Domestic		5 773	1489	195.0	35.0	2	9.0	1.3	0.7	160	2018	N	1										1
Downbound	Domestic		4 000764	1857	200.0	35.0	2	10.0	1.5	0.5	191	2018	N	1								1		
Downbound	Domestic		4 000823	2604	200.0	35.0	8	14.0	1.7	6.3	256	2018	N	2				2						
Downbound	Domestic		4 799	1886	200.0	35.0	8	10.0	1.4	6.6	149	2018	N	2				2						
Downbound	Domestic		4 000764	1504	200.0	35.0	10	11.0	1.9	8.1	206	2018	N	1				1						
Downbound	Domestic		4 000764	2090	200.0	35.0	8	11.0	1.6	6.4	210	2018	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2018	N	3				3						
Downbound	Domestic		5 1619	4054	297.0	54.0	8	12.0	2.0	6.0	170	2018	N	2						2				
Downbound	Domestic		4 000764	2151	200.0	35.0	2	13.0	1.8	0.2	190	2018	N	1								1		
Downbound	Domestic		4 000823	1600	195.0	35.0	2	12.0	2.0	0.0	140	2018	N	3								3		
Downbound	Domestic		4 000823	1750	200.0	35.0	2	10.0	1.7	0.3	213	2018	N	1								1		
Downbound	Domestic		4 799	1886	200.0	35.0	2	10.0	1.5	0.5	149	2018	N	1								1		
Downbound	Domestic		4 764	1658	200.0	35.0	2	9.0	1.5	0.5	225	2018	N	2								2		
Downbound	Domestic		4 802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2018	N	1				1						
Downbound	Domestic		4 000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2018	N	4				4						
Downbound	Domestic		4 687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2018	N	2				2						
Downbound	Domestic		4 000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2018	N	2				2						
Downbound	Domestic		4 000764	1636	200.0	35.0	7	9.0	1.7	5.3	199	2018	N	1				1						
Downbound	Domestic		4 000687	1500	195.0	35.0	10	10.0	3.0	7.0	9999	2018	N	1				1						
Downbound	Domestic		4 000802	1600	195.0	35.0	8	12.0	2.0	6.0	140	2018	N	1				1						
Downbound	Domestic		4 000745	1705	195.0	35.0	9	10.0	1.6	7.4	139	2018	N	2				2						
Downbound	Domestic		4 000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2018	N	1				1						
Downbound	Domestic		4 764	1865	200.0	35.0	10	12.0	1.5	8.5	208	2018	N	1				1						
Downbound	Domestic		4 764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2018	N	1				1						
Downbound	Domestic		4 823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2018	N	8								8		
Downbound	Domestic		4 708	2125	195.0	35.0	2	13.0	1.7	0.3	218	2018	N	3								3		
Downbound	Domestic		4 000764	1765	200.0	35.0	11	13.0	2.0	9.0	165	2018	N	1				1						
Downbound	Domestic		4 823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2018	N	12				12						
Downbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.8	6.2	206	2018	N	1				1						
Downbound	Domestic		4 000823	2735	200.0	35.0	7	12.0	1.7	5.3	250	2018	N	1				1						
Downbound	Domestic		4 000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2018	N	2				2						
Downbound	Domestic		5 001619	3100	297.5	54.0	10	10.0	2.0	8.0	220	2018	N	2						2				
Downbound	Domestic		4 764	1554	200.0	35.0	8	9.0	1.5	6.5	170	2018	N	1				1						
Downbound	Domestic		4 000764	1652	200.0	35.0	11	12.0	3.0	8.0	215	2018	N	1				1						
Downbound	Domestic		4 000764	2151	200.0	35.0	10	13.0	2.0	8.0	170	2018	N	1				1						
Downbound	Domestic		4 706	1575	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	1				1						
Downbound	Domestic		4 000764	1862	200.0	35.0	2	10.0	1.5	0.5	191	2018	N	2								2		
Downbound	Domestic		5 2431	2500	280.0	50.0	9	9.0	2.5	6.5	220	2018	N	8						8				
Downbound	Domestic		4 764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2018	N	9				9						
Downbound	Domestic		4 000764	1506	200.0	35.0	12	12.0	1.8	10.2	120	2018	N	1				1						
Downbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2018	N	5				5						
Downbound	Domestic		4 000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2018	N	3				3						
Downbound	Domestic		4 000764	1514	200.0	35.0	8	9.0	1.8	6.2	190	2018	N	1				1						
Downbound	Domestic		4 740	1536	200.0	35.0	9	9.0	2.0	7.0	165	2018	N	1				1						
Downbound	Domestic		4 000823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2018	N	1				1						
Downbound	Domestic		4 763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2018	N	5								5		
Downbound	Domestic		4 000764	2300	200.0	35.0	2	12.0	1.6	0.4	226	2018	N	1								1		
Downbound	Domestic		3 34	999999	47.2	18.1	6	6.0	5.5	0.5	234	2018	N	137		137								
Downbound	Domestic		4 764	2100	200.0	35.0	2	12.0	1.5	0.5	208	2018	N	1								1		
Downbound	Domestic		4 000764	1865	200.0	35.0	2	10.0	1.5	0.5	139	2018	N	1								1		
Downbound	Domestic		4 745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2018	N	8				8						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic		4 705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2018	N	4				4						
Downbound	Domestic		4 000764	1800	200.0	35.0	9	9.0	1.4	7.6	155	2018	N	1				1						
Downbound	Domestic		4 000823	1641	200.0	35.0	8	9.0	1.4	6.6	160	2018	N	1				1						
Downbound	Domestic		4 000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2018	N	2				2						
Downbound	Domestic		4 000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2018	N	2				2						
Downbound	Domestic		4 000764	2651	200.0	35.0	6	9.0	1.6	4.4	206	2018	N	1				1						
Downbound	Domestic		4 000764	1504	200.0	35.0	2	13.0	1.9	0.1	206	2018	N	2								2		
Downbound	Domestic		4 000764	1651	200.0	35.0	2	12.0	1.8	0.2	206	2018	N	1								1		
Downbound	Domestic		3 42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2018	N	119		119								
Downbound	Domestic		4 000823	2161	200.0	35.0	2	12.0	1.8	0.2	219	2018	N	1								1		
Downbound	Domestic		3 000255	375	110.0	32.0	8	8.5	7.5	0.5	392	2018	N	1		1								
Downbound	Domestic		4 000882	2646	200.0	35.0	2	9.0	2.0	0.0	9999	2018	N	2								2		
Downbound	Domestic		4 000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2018	N	1								1		
Downbound	Domestic		4 000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2018	N	9								9		
Downbound	Domestic		4 000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2018	N	8				8						
Downbound	Domestic		4 823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2018	N	2				2						
Downbound	Domestic		4 000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2018	N	2				2						
Downbound	Domestic		4 000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	7				7						
Downbound	Domestic		4 000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	8				8						
Downbound	Domestic		4 000764	1910	200.0	35.0	11	13.0	3.0	8.0	130	2018	N	1				1						
Downbound	Domestic		4 834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2018	N	3				3						
Downbound	Domestic		4 000764	1534	200.0	35.0	9	9.0	1.7	7.3	209	2018	N	1				1						
Downbound	Domestic		4 856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2018	N	1				1						
Downbound	Domestic		4 823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2018	N	3				3						
Downbound	Domestic		4 000706	1569	200.0	35.0	8	9.0	1.6	6.4	215	2018	N	1				1						
Downbound	Domestic		4 000764	1653	200.0	35.0	8	9.0	2.0	6.0	210	2018	N	2				2						
Downbound	Domestic		4 823	1800	200.0	35.0	12	9.0	1.5	10.5	180	2018	N	1				1						
Downbound	Domestic		4 000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2018	N	5				5						
Downbound	Domestic		4 000764	1637	200.0	35.0	8	9.0	1.7	6.3	199	2018	N	2				2						
Downbound	Domestic		4 705	1551	200.0	35.0	9	9.0	1.5	7.5	224	2018	N	1				1						
Downbound	Domestic		4 000764	2090	200.0	35.0	2	12.0	1.6	0.4	210	2018	N	1								1		
Downbound	Domestic		4 000764	1653	200.0	35.0	2	8.0	2.0	0.0	210	2018	N	1								1		
Downbound	Domestic		5 773	1489	195.1	35.1	2	9.0	1.8	0.2	166	2018	N	2										2
Downbound	Domestic		4 764	1530	200.0	35.0	2	9.0	1.7	0.3	209	2018	N	1								1		
Downbound	Domestic		4 000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2018	N	22				22						
Downbound	Domestic		4 000764	1742	200.0	35.0	8	10.0	1.7	6.3	130	2018	N	1				1						
Downbound	Domestic		4 764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2018	N	3				3						
Downbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2018	N	12				12						
Downbound	Domestic		4 823	2295	200.0	35.0	8	12.0	1.4	6.6	227	2018	N	1				1						
Downbound	Domestic		4 000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2018	N	7				7						
Downbound	Domestic		4 000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2018	N	2				2						
Downbound	Domestic		5 1619	3660	297.5	54.0	10	11.0	2.0	8.0	160	2018	N	1						1				
Downbound	Domestic		4 000802	1600	195.0	35.0	2	12.0	2.0	0.0	140	2018	N	3								3		
Downbound	Domestic		5 835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2018	N	2										2
Downbound	Domestic		4 000764	1504	200.0	35.0	2	9.0	1.9	0.1	206	2018	N	2								2		
Downbound	Domestic		4 823	2733	200.0	35.0	2	14.0	1.6	0.4	211	2018	N	1								1		
Downbound	Domestic		4 706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	3				3						
Downbound	Domestic		4 705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2018	N	2				2						
Downbound	Domestic		4 000823	2469	200.0	35.0	7	10.0	1.5	5.5	175	2018	N	10				10						
Downbound	Domestic		4 000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2018	N	5				5						
Downbound	Domestic		4 764	1744	200.0	35.0	8	10.0	1.7	6.3	209	2018	N	1				1						
Downbound	Domestic		4 727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2018	N	3				3						
Downbound	Domestic		4 000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2018	N	3				3						
Downbound	Domestic		4 745	2077	195.0	35.0	8	9.0	1.5	6.5	215	2018	N	1				1						
Downbound	Domestic		4 000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2018	N	2				2						
Downbound	Domestic		4 000764	2200	200.0	35.0	3	10.0	3.0	0.0	9999	2018	N	2								2		
Downbound	Domestic		4 000764	2292	200.0	35.0	2	12.0	2.0	0.0	220	2018	N	1								1		
Downbound	Domestic		4 000764	1651	200.0	35.0	2	11.0	1.8	0.2	206	2018	N	1								1		
Downbound	Domestic		4 960	2077	195.0	35.0	2	12.0	1.7	0.3	215	2018	N	1								1		
Downbound	Domestic		4 000966	1664	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	3				3						
Downbound	Domestic		4 823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2018	N	7				7						
Downbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	163	2018	N	1				1						
Downbound	Domestic		4 764	1645	200.0	35.0	9	9.0	1.5	7.5	165	2018	N	2				2						
Downbound	Domestic		4 764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2018	N	4				4						
Downbound	Domestic		4 705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2018	N	1				1						
Downbound	Domestic		4 000802	2110	200.0	35.0	9	12.0	1.8	7.2	220	2018	N	1				1						
Downbound	Domestic		5 2482	2203	294.0	50.0	8	9.0	2.0	6.0	300	2018	N	2						2				
Downbound	Domestic		4 705	1556	200.0	35.0	8	9.0	1.5	6.5	216	2018	N	1				1						
Downbound	Domestic		3 000294	999999	114.0	35.0	9	11.0	11.0	-2.0	420	2018	N	2		2								
Downbound	Domestic		3 000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2018	N	20		20								
Downbound	Domestic		4 764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2018	N	5								5		
Downbound	Domestic		5 1619	4465	297.5	54.0	2	12.0	2.0	0.0	220	2018	N	1										1
Downbound	Domestic		4 823	1624	200.0	35.0	2	9.0	1.6	0.4	191	2018	N	1								1		
Downbound	Domestic		4 000745	2235	195.0	35.0	2	10.0	3.0	-1.0	216	2018	N	1								1		
Downbound	Domestic		4 823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2018	N	2				2						
Downbound	Domestic		4 764	1648	200.0	35.0	10	11.0	1.5	8.5	255	2018	N	1				1						
Downbound	Domestic		4 000764	1536	200.0	35.0	9	9.0	1.8	7.2	225	2018	N	6				6						
Downbound	Domestic		4 764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2018	N	2				2						
Downbound	Domestic		4 000764	1506	200.0	35.0	11	11.0	1.8	9.2	120	2018	N	2				2						
Downbound	Domestic		5 2476	2500	310.0	50.0	9	9.0	2.5	6.5	230	2018	N	7						7				
Downbound	Domestic		4 000745	2090	195.0	35.0	9	12.0	1.8	7.2	170	2018	N	1				1						
Downbound	Domestic		4 000764	2292	200.0	35.0	9	12.0	2.0	7.0	220	2018	N	1				1						
Downbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	180	2018	N	1				1						
Downbound	Domestic		4 000764	2406	200.0	35.0	9	13.0	1.6	7.4	120	2018	N	3				3						
Downbound	Domestic		4 000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2018	N	1				1						
Downbound	Domestic		5 2424	2212	295.0	50.0	7	9.0	2.0	5.0	250	2018	N	2						2				
Downbound	Domestic		4 000764	1506	200.0	35.0	2	9.0	1.9	0.1	206	2018	N	3								3		
Downbound	Domestic		4 823	2410	200.0	35.0	2	14.0	1.5	0.5	190	2018	N	1								1		
Downbound	Domestic		4 000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2018	N	11				11						
Downbound	Domestic		4 764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2018	N	6				6						
Downbound	Domestic		4 000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2018	N	3				3						
Downbound	Domestic		4 000764	2292	200.0	35.0	9	12.0	2.0	7.0	130	2018	N	1				1						
Downbound	Domestic		4 764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2018	N	1				1						
Downbound	Domestic		4 727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2018	N	2				2						
Downbound	Domestic		4 823	2398	200.0	35.0	9	13.0	2.0	7.0	165	2018	N	1				1						
Downbound	Domestic		4 000764	2200	200.0	35.0	8	11.0	2.0	6.0	165	2018	N	1				1						
Downbound	Domestic		5 001151	3275	175.0	54.0	5	9.0	1.5	3.5	164	2018	N	4						4				
Downbound	Domestic		5 001321	3200	280.4	54.0	9	9.0	2.0	7.0	180	2018	N	2						2				
Downbound	Domestic		4 745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2018	N	8								8		
Downbound	Domestic		3 000441	999999	95.4	34.0	11	10.5	10.5	0.5	9999	2018	N	2		2								
Downbound	Domestic		4 705	1600	200.0	35.0	2	9.0	1.6	0.4	180	2018	N	2								2		
Downbound	Domestic		4 763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2018	N	4								4		
Downbound	Domestic		4 705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2018	N	3				3						
Downbound	Domestic		4 000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2018	N	2				2						
Downbound	Domestic		4 000764	1620	200.0	35.0	11	9.0	2.0	9.0	9999	2018	N	1				1						
Downbound	Domestic		4 000764	1739	200.0	35.0	9	10.0	1.7	7.3	130	2018	N	1				1						
Downbound	Domestic		4 000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2018	N	2				2						
Downbound	Domestic		5 1619	4196	297.5	54.0	8	12.0	2.0	6.0	170	2018	N	2						2				
Downbound	Domestic		4 000823	1750	200.0	35.0	9	10.0	1.7	7.3	213	2018	N	1				1						
Downbound	Domestic		4 823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2018	N	1				1						
Downbound	Domestic		4 705	1652	200.0	35.0	9	9.0	1.4	7.6	194	2018	N	1				1						
Downbound	Domestic		4 764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2018	N	1				1						
Downbound	Domestic		4 000688	1511	195.0	35.0	9	9.0	1.5	7.5	170	2018	N	1				1						
Downbound	Domestic		4 823	2748	200.0	35.0	2	14.0	1.6	0.4	215	2018	N	1								1		
Downbound	Domestic		4 000764	1541	200.0	35.0	2	9.0	1.6	0.4	143	2018	N	1								1		
Downbound	Domestic		4 000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2018	N	13				13						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.5	7.5	9999	2018	N	3				3						
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2018	N	7				7						
Downbound	Domestic	4	000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2018	N	1				1						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	9999	2018	N	1				1						
Downbound	Domestic	5	000705	1650	200.0	35.0	9	9.6	2.0	7.0	189	2018	N	4						4				
Downbound	Domestic	4	000802	1705	195.0	35.0	8	10.0	1.5	6.5	140	2018	N	9				9						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2018	N	4				4						
Downbound	Domestic	4	705	2300	200.0	35.0	6	9.0	1.4	4.6	160	2018	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2018	N	1				1						
Downbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2018	N	1				1						
Downbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.5	6.5	175	2018	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2018	N	4								4		
Downbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2018	N	2								2		
Downbound	Domestic	4	823	2059	200.0	35.0	2	14.0	1.6	0.4	25	2018	N	1								1		
Downbound	Domestic	4	856	1856	200.0	35.1	8	10.0	1.6	6.4	210	2018	N	1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2018	N	3				3						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2018	N	2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2018	N	9				9						
Downbound	Domestic	4	000823	2880	200.0	35.0	7	12.0	2.0	5.0	9999	2018	N	7				7						
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2018	N	11						11				
Downbound	Domestic	4	663	1892	200.0	35.0	9	10.0	1.4	7.6	140	2018	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2018	N	1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2018	N	2				2						
Downbound	Domestic	4	000764	1964	200.0	35.0	7	9.0	2.0	5.0	196	2018	N	1				1						
Downbound	Domestic	4	687	1501	195.0	35.0	9	10.0	1.5	7.5	186	2018	N	1				1						
Downbound	Domestic	3	000143	999999	110.1	35.0	9	11.0	11.0	-2.0	420	2018	N	4		4								
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2018	N	3								3		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	15.0	3.0	-1.0	9999	2018	N	1								1		
Downbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2018	N	3		3								
Downbound	Domestic	4	000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2018	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2018	N	9				9						
Downbound	Domestic	5	001619	3500	297.6	54.0	8	9.0	1.0	7.0	220	2018	N	5						5				
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2018	N	10				10						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2018	N	11				11						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	225	2018	N	1				1						
Downbound	Domestic	4	000823	1933	200.0	35.0	8	12.0	2.0	6.0	215	2018	N	5				5						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2018	N	13				13						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2018	N	1				1						
Downbound	Domestic	4	000764	1658	200.0	35.0	9	9.0	1.6	7.4	230	2018	N	1				1						
Downbound	Domestic	4	764	1558	200.0	35.0	9	9.0	1.5	7.5	160	2018	N	1				1						
Downbound	Domestic	5	001623	4606	297.7	54.1	8	10.5	1.5	6.5	230	2018	N	2						2				
Downbound	Domestic	4	764	1665	200.0	35.0	2	9.0	1.4	0.6	155	2018	N	1								1		
Downbound	Domestic	4	735	1885	200.0	35.0	2	10.0	1.4	0.6	176	2018	N	1								1		
Downbound	Domestic	4	694	1728	195.0	35.0	2	10.0	1.6	0.4	176	2018	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	3	10.0	3.0	0.0	9999	2018	N	1								1		
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2018	N	10						10				
Downbound	Domestic	4	000745	2151	195.0	35.0	7	10.0	1.6	5.4	170	2018	N	7				7						
Downbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2018	N	2				2						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2018	N	8				8						
Downbound	Domestic	4	000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2018	N	24				24						
Downbound	Domestic	4	000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2018	N	1				1						
Downbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2018	N	2				2						
Downbound	Domestic	4	000764	2408	200.0	35.0	8	13.0	1.6	6.4	220	2018	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	9999	2018	N	1				1						
Downbound	Domestic	3	000297	999999	116.0	35.0	10	9.5	9.5	0.5	402	2018	N	2		2								
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2018	N	11								11		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	170	2018	N	1								1		
Downbound	Domestic	4	000823	2500	200.0	35.0	2	12.0	2.0	0.0	9999	2018	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2018	N	6				6						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2018	N	4				4						
Downbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2018	N	4				4						
Downbound	Domestic	4	000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2018	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	9	9.0	1.7	7.3	225	2018	N	1				1						
Downbound	Domestic	4	000823	1534	200.0	35.0	8	9.0	1.7	6.3	235	2018	N	1				1						
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2018	N	2				2						
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2018	N	1				1						
Downbound	Domestic	4	000764	2666	200.0	35.0	7	11.0	2.0	5.0	215	2018	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	2	13.0	1.6	0.4	165	2018	N	3								3		
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2018	N	1								1		
Downbound	Domestic	4	000764	1504	200.0	35.0	2	10.0	1.9	0.1	206	2018	N	1								1		
Downbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2018	N	5				5						
Downbound	Domestic	4	933	1674	200.0	35.0	8	9.0	2.0	6.0	192	2018	N	1				1						
Downbound	Domestic	4	663	1892	200.0	35.0	8	10.0	1.4	6.6	140	2018	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2018	N	2				2						
Downbound	Domestic	4	000745	2100	195.0	35.0	7	10.0	3.0	4.0	9999	2018	N	2				2						
Downbound	Domestic	5	1639	3000	297.5	52.5	8	12.0	2.0	6.0	180	2018	N	2						2				
Downbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	210	2018	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	206	2018	N	1				1						
Downbound	Domestic	4	771	1654	200.0	35.0	8	9.0	1.5	6.5	214	2018	N	1				1						
Downbound	Domestic	4	000764	1618	200.0	35.0	3	9.0	3.0	0.0	9999	2018	N	1								1		
Downbound	Domestic	4	000764	1484	200.0	35.0	2	9.0	2.0	0.0	160	2018	N	1								1		
Downbound	Domestic	4	823	2469	200.0	35.0	9	14.0	2.0	7.0	191	2018	N	2				2						
Downbound	Domestic	4	764	1879	200.0	35.0	9	10.0	1.5	7.5	218	2018	N	1				1						
Downbound	Domestic	4	764	1422	200.0	35.0	13	11.0	1.6	11.4	235	2018	N	2				2						
Downbound	Domestic	4	000764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2018	N	1				1						
Downbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2018	N	3				3						
Downbound	Domestic	4	000764	1619	200.0	35.0	11	9.0	3.0	8.0	9999	2018	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2018	N	2				2						
Downbound	Domestic	5	2917	2400	295.0	52.5	9	9.0	2.0	7.0	320	2018	N	5						5				
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2018	N	2				2						
Downbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2018	N	1				1						
Downbound	Domestic	4	764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2018	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2018	N	1				1						
Downbound	Domestic	3	000143	999999	114.0	35.0	11	11.0	11.0	0.0	420	2018	N	40		40								
Downbound	Domestic	4	000764	2077	200.0	35.0	2	11.0	1.5	0.5	215	2018	N	1								1		
Downbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.5	0.5	225	2018	N	1								1		
Downbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2018	N	1										1
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2018	N	6				6						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2018	N	3				3						
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2018	N	5						5				
Downbound	Domestic	5	1619	4760	297.5	54.0	8	10.8	1.5	6.5	230	2018	N	2						2				
Downbound	Domestic	4	000745	2090	195.0	35.0	2	12.0	1.8	0.2	170	2018	N	7								7		
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2018	N	2								2		
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2018	N	11				11						
Downbound	Domestic	4	706	2306	200.0	35.0	7	10.0	1.4	5.6	196	2018	N	2				2						
Downbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2018	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2018	N	1				1						
Downbound	Domestic	4	000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2018	N	1				1						
Downbound	Domestic	4	000764	1653	200.0	35.0	9	10.0	3.0	6.0	217	2018	N	1				1						
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.6	7.0	0.0	400	2018	N	2		2								
Downbound	Domestic	4	823	2077	200.0	35.0	2	12.0	1.5	0.5	215	2018	N	1								1		
Downbound	Domestic	5	1619	4298	297.5	54.0	2	12.0	2.0	0.0	220	2018	N	1										1
Downbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2018	N	2				2						
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2018	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.6	7.4	143	2018	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	8	11.0	1.8	6.2	170	2018	N	2				2						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2018	N	1				1						
Downbound	Domestic	4	764	1869	200.0	35.0	2	10.0	1.7	0.3	191	2018	N	2								2		
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2018	N	2				2						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2018	N	7				7						
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2018	N	4				4						
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	165	2018	N	1								1		
Downbound	Domestic	4	000764	1648	200.0	35.0	12	9.0	2.0	10.0	9999	2018	N	1				1						
Downbound	Domestic	4	000764	2060	200.0	35.0	2	11.0	1.8	0.2	195	2018	N	1								1		
Downbound	Domestic	4	000823	2603	200.0	35.0	2	12.0	1.7	0.3	250	2018	N	1								1		
Downbound	Domestic	4	000764	2400	200.0	35.0	3	10.0	2.5	0.5	9999	2018	N	1								1		
Downbound	Domestic	4	000823	1536	200.0	35.0	2	9.0	1.7	0.3	140	2018	N	2								2		
Downbound	Domestic	4	687	1723	195.0	35.0	2	10.0	1.5	0.5	206	2018	N	1								1		
Downbound	Domestic	4	000745	2151	195.0	35.0	2	12.0	1.8	0.2	210	2018	N	1								1		
Downbound	Domestic	4	823	2161	200.0	35.0	8	12.0	1.8	6.2	224	2018	N	1				1						
Downbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2018	N	6				6						
Downbound	Domestic	4	000764	2300	200.0	35.0	6	9.0	1.4	4.6	165	2018	N	2				2						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2018	N	1				1						
Downbound	Domestic	4	000823	2398	200.0	35.0	8	13.0	1.7	6.3	256	2018	N	1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	11	12.0	2.0	9.0	180	2018	N	1					1					
Downbound	Domestic	4	000764	1728	200.0	35.0	2	9.0	1.6	0.4	206	2018	N	2								2		
Downbound	Domestic	3	000294	999999	114.0	35.0	11	11.0	11.0	0.0	420	2018	N	20		20								
Downbound	Domestic	5	000687	1563	195.0	35.0	2	9.6	1.5	0.5	190	2018	N	1										1
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2018	N	1								1		
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	208	2018	N	1								1		
Downbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	160	2018	N	1				1						
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	12				12						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2018	N	16				16						
Downbound	Domestic	4	000823	2300	200.0	35.0	10	13.0	1.6	8.4	165	2018	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	250	2018	N	10				10						
Downbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2018	N	17				17						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2018	N	2				2						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2018	N	2				2						
Downbound	Domestic	4	000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2018	N	1				1						
Downbound	Domestic	4	000764	2397	200.0	35.0	3	13.0	1.7	1.3	208	2018	N	1								1		
Downbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2018	N	2				2						
Downbound	Domestic	4	000764	2406	200.0	35.0	8	13.0	1.0	7.0	120	2018	N	3				3						
Downbound	Domestic	5	001619	3599	297.5	54.0	8	9.0	2.0	6.0	200	2018	N	4					4					
Downbound	Domestic	4	688	1511	195.0	35.0	9	9.0	1.5	7.5	170	2018	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	2	12.0	1.5	0.5	208	2018	N	1								1		
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2018	N	5				5						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	130	2018	N	1				1						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2018	N	4					4					
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2018	N	4				4						
Downbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2018	N	5				5						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	230	2018	N	1				1						
Downbound	Domestic	3	000143	0	110.1	35.0	9	9.0	9.0	0.0	100	2018	N	11		11								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2018	N	12								12		
Downbound	Domestic	4	000745	2100	195.0	35.0	2	12.0	2.0	0.0	9999	2018	N	2								2		
Downbound	Domestic	3	526	999999	147.0	38.5	10	9.0	7.5	2.5	420	2018	N	1		1								
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2018	N	14				14						
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2018	N	11				11						
Downbound	Domestic	4	000764	1910	200.0	35.0	7	9.0	2.0	5.0	195	2018	N	2				2						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2018	N	4				4						
Downbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2018	N	2				2						
Downbound	Domestic	4	823	2194	200.0	35.0	6	8.0	1.4	4.6	25	2018	N	5				5						
Downbound	Domestic	4	000764	1608	200.0	35.0	12	9.0	3.0	9.0	9999	2018	N	1				1						
Downbound	Domestic	5	001619	3581	297.5	54.0	8	9.0	2.0	6.0	200	2018	N	2					2					
Downbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	3.0	3.0	9999	2018	N	1				1						
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2018	N	2				2						
Downbound	Domestic	4	764	2200	200.0	35.0	2	8.0	2.0	0.0	165	2018	N	1								1		
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2018	N	4										4
Downbound	Domestic	3	533	999999	140.0	42.0	7	8.6	6.6	0.4	430	2018	N	6		6								
Downbound	Domestic	3	131	999999	75.0	27.2	10	9.6	8.0	2.0	315	2018	N	1		1								
Downbound	Domestic	4	000687	1500	195.0	35.0	3	10.0	3.0	0.0	9999	2018	N	2								2		
Downbound	Domestic	4	764	1648	200.0	35.0	2	11.0	1.5	0.5	186	2018	N	1								1		
Downbound	Domestic	4	764	1800	200.0	35.0	2	12.0	1.8	0.2	160	2018	N	1								1		
Upbound	Domestic	4	705	1556	200.0	35.0	8	9.0	1.5	6.5	223	2019	N	1			1							
Upbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2019	N	1			1							
Upbound	Domestic	4	764	1990	200.0	35.0	8	11.0	4.0	4.0	170	2019	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.5	8.5	165	2019	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	9999	2019	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	205	2019	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2019	N	4			4							
Upbound	Domestic	4	000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2019	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2019	N	1			1							
Upbound	Domestic	4	000764	1640	200.0	35.0	8	9.0	1.5	6.5	160	2019	N	1			1							
Upbound	Domestic	4	000764	2131	200.0	35.0	2	13.0	1.9	0.1	206	2019	N	1							1			
Upbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	1			1							
Upbound	Domestic	4	000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2019	N	4			4							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2019	N	1			1							
Upbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2019	N	8			8							
Upbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2019	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2019	N	5			5							
Upbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	196	2019	N	2			2							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.7	6.3	199	2019	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2019	N	11			11							
Upbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2019	N	3			3							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	250	2019	N	1			1							
Upbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2019	N	3			3							
Upbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2019	N	2			2							
Upbound	Domestic	4	000802	2406	195.0	35.0	8	10.0	2.0	6.0	9999	2019	N	4			4							
Upbound	Domestic	4	764	1626	200.0	35.0	9	9.0	1.5	7.5	165	2019	N	1			1							
Upbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2019	N	1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	1			1							
Upbound	Domestic	4	764	1646	200.0	35.0	2	9.0	1.6	0.4	226	2019	N	1							1			
Upbound	Domestic	4	000764	1876	200.0	35.0	8	10.0	1.5	6.5	215	2019	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.7	6.3	190	2019	N	1			1							
Upbound	Domestic	4	764	1610	200.0	35.0	8	9.0	1.5	6.5	165	2019	N	1			1							
Upbound	Domestic	4	000764	2192	200.0	35.0	8	12.0	2.0	6.0	9999	2019	N	1			1							
Upbound	Domestic	3	000132	443	110.0	32.0	9	10.0	8.6	0.4	450	2019	N	1		1								
Upbound	Domestic	4	000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2019	N	3							3			
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	250	2019	N	3			3							
Upbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2019	N	7			7							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.5	5.5	175	2019	N	4			4							
Upbound	Domestic	4	823	2194	200.0	35.0	5	8.0	1.4	3.6	25	2019	N	1			1							
Upbound	Domestic	4	000823	2410	200.0	35.0	10	14.0	1.5	8.5	190	2019	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	13.0	1.5	9.5	208	2019	N	1			1							
Upbound	Domestic	4	823	2077	200.0	35.0	9	12.0	1.5	7.5	215	2019	N	1			1							
Upbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2019	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2019	N	16			16							
Upbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2019	N	7			7							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	3			3							
Upbound	Domestic	4	000764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2019	N	1			1							
Upbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2019	N	9			9							
Upbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2019	N	3			3							
Upbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	9999	2019	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	1527	200.0	35.0	9	9.0	1.8	7.2	205	2019	N	1			1							
Upbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2019	N	1			1							
Upbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2019	N	1									1	
Upbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2019	N	1							1			
Upbound	Domestic	4	000784	1800	200.0	35.0	2	9.0	2.0	0.0	130	2019	N	1							1			
Upbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2019	N	7			7							
Upbound	Domestic	4	000764	1538	200.0	35.0	8	9.0	1.7	6.3	9999	2019	N	1			1							
Upbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2019	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.4	7.6	215	2019	N	2			2							
Upbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.6	6.4	250	2019	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	2	9.0	1.8	0.2	225	2019	N	1							1			
Upbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2019	N	1		1								
Upbound	Domestic	4	000764	1606	200.0	35.0	12	9.0	3.0	9.0	9999	2019	N	1			1							
Upbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2019	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2019	N	2			2							
Upbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	2			2							
Upbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2019	N	1			1							
Upbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2019	N	1			1							
Upbound	Domestic	4	000764	1615	200.0	35.0	11	12.0	1.8	9.2	170	2019	N	1			1							
Upbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2019	N	4			4							
Upbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2019	N	3			3							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2019	N	3			3							
Upbound	Domestic	4	764	2187	200.0	35.0	8	12.0	1.7	6.3	190	2019	N	1			1							
Upbound	Domestic	4	000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2019	N	4			4							
Upbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.7	6.3	210	2019	N	1			1							
Upbound	Domestic	4	764	2100	200.0	35.0	8	12.0	1.5	6.5	186	2019	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	11.0	1.8	6.2	170	2019	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	139	2019	N	1			1							
Upbound	Domestic	4	000823	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2019	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2019	N	24			24							
Upbound	Domestic	4	000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2019	N	2			2							
Upbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2019	N	2			2							
Upbound	Domestic	4	000764	1854	200.0	35.0	8	10.0	1.6	6.4	130	2019	N	2			2							
Upbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.6	7.4	170	2019	N	1			1							
Upbound	Domestic	4	000745	1504	200.0	35.0	9	9.0	1.9	7.1	206	2019	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	1660	2019	N	1			1							
Upbound	Domestic	3	000143	0	110.1	35.0	9	9.0	9.0	0.0	100	2019	N	16		16								
Upbound	Domestic	4	000764	1965	200.0	35.0	2	13.0	1.6	0.4	240	2019	N	1							1			
Upbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2019	N	3			3							
Upbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	3			3							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2019	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2019	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2019	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2019	N	1			1							
Upbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2019	N	1			1							
Upbound	Domestic	4	000764	1855	200.0	35.0	8	10.0	1.7	6.3	130	2019	N	3			3							
Upbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2019	N	1			1							
Upbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	191	2019	N	1			1							
Upbound	Domestic	4	000764	1546	200.0	35.0	8	9.0	1.6	6.4	205	2019	N	1			1							
Upbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2019	N	3							3			
Upbound	Domestic	4	000764	2408	200.0	35.0	2	13.0	1.6	0.4	220	2019	N	1							1			
Upbound	Domestic	4	705	1875	200.0	35.0	9	10.0	1.4	7.6	191	2019	N	1			1							
Upbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	255	2019	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2019	N	4			4							
Upbound	Domestic	4	000764	2007	200.0	35.0	8	10.0	3.0	5.0	9999	2019	N	3			3							
Upbound	Domestic	4	000705	1612	200.0	35.0	9	9.0	1.6	7.4	205	2019	N	1			1							
Upbound	Domestic	4	000764	1742	200.0	35.0	2	10.0	1.7	0.3	130	2019	N	1							1			
Upbound	Domestic	5	2424	2642	295.0	50.0	2	9.0	2.0	0.0	250	2019	N	1									1	
Upbound	Domestic	4	763	2290	195.0	35.0	8	13.0	1.7	6.3	235	2019	N	2			2							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	130	2019	N	1			1							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	12.0	1.8	9.2	206	2019	N	2			2							
Upbound	Domestic	4	000764	1534	200.0	35.0	6	9.0	1.7	4.3	199	2019	N	1			1							
Upbound	Domestic	5	1755	4211	297.7	54.0	9	11.0	1.5	7.5	200	2019	N	1					1					
Upbound	Domestic	4	000764	1750	200.0	35.0	8	10.0	1.5	6.5	191	2019	N	1			1							
Upbound	Domestic	3	275	999999	114.0	30.0	10	9.3	9.3	0.7	420	2019	N	13		13								
Upbound	Domestic	4	823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2019	N	2			2							
Upbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2019	N	3			3							
Upbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2019	N	5			5							
Upbound	Domestic	4	000764	1652	200.0	35.0	8	9.0	2.0	6.0	215	2019	N	1			1							
Upbound	Domestic	4	823	1662	200.0	35.0	8	13.0	1.6	6.4	230	2019	N	1			1							
Upbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	1.6	6.4	220	2019	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2019	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	170	2019	N	1			1							
Upbound	Domestic	4	000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2019	N	1			1							
Upbound	Domestic	4	000687	1500	195.0	35.0	9	10.0	3.0	6.0	9999	2019	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2019	N	1			1							
Upbound	Domestic	4	000764	1551	200.0	35.0	2	9.0	1.6	0.4	225	2019	N	1							1			
Upbound	Domestic	3	000280	999999	84.4	35.0	10	11.0	10.0	0.0	456	2019	N	1		1								
Upbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2019	N	1									1	
Upbound	Domestic	4	000823	2469	200.0	35.0	3	13.0	2.0	1.0	190	2019	N	1							1			
Upbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2019	N	3			3							
Upbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	6			6							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	9.0	2.0	10.0	9999	2019	N	1			1							
Upbound	Domestic	5	001754	3390	297.5	54.0	10	11.0	2.0	8.0	180	2019	N	1					1					
Upbound	Domestic	4	764	190	200.0	35.0	11	11.0	4.0	7.0	170	2019	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	10.0	1.8	6.2	170	2019	N	1			1							
Upbound	Domestic	4	823	2188	200.0	35.0	6	12.0	1.6	4.4	225	2019	N	1			1							
Upbound	Domestic	4	000764	2500	200.0	35.0	6	10.0	3.0	3.0	9999	2019	N	1			1							
Upbound	Domestic	4	764	1668	200.0	35.0	8	9.0	1.5	6.5	160	2019	N	1			1							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.5	7.5	241	2019	N	1			1							
Upbound	Domestic	4	000764	2468	200.0	35.0	7	13.0	1.5	5.5	208	2019	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	9	9.0	1.6	7.4	204	2019	N	1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	2	14.0	1.7	0.3	210	2019	N	1							1			
Upbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2019	N	3		3								
Upbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2019	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2019	N	5			5							
Upbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2019	N	1			1							
Upbound	Domestic	4	700	2143	195.0	35.0	8	12.0	1.5	6.5	206	2019	N	1			1							
Upbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2019	N	1			1							
Upbound	Domestic	4	000764	2090	200.0	35.0	8	12.0	1.6	6.4	210	2019	N	2			2							
Upbound	Domestic	5	002482	2202	293.0	50.0	2	9.0	2.0	0.0	250	2019	N	1									1	
Upbound	Domestic	5	1803	2500	295.0	52.0	3	9.0	2.5	0.5	340	2019	N	1									1	
Upbound	Domestic	5	773	1489	195.1	35.1	8	9.0	1.8	6.2	166	2019	N	4					4					
Upbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2019	N	4			4							
Upbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2019	N	3			3							
Upbound	Domestic	4	705	1546	200.0	35.0	8	9.0	1.5	6.5	223	2019	N	1			1							
Upbound	Domestic	4	000823	2739	200.0	35.0	7	14.0	1.6	5.4	140	2019	N	1			1							
Upbound	Domestic	4	000825	1800	200.0	35.0	8	10.0	3.0	5.0	9999	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	9999	2019	N	1							1			
Upbound	Domestic	5	2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2019	N	1									1	
Upbound	Domestic	4	764	1657	200.0	35.0	7	9.0	1.5	5.5	170	2019	N	1			1							
Upbound	Domestic	4	000823	1600	200.0	35.0	8	12.0	2.0	6.0	140	2019	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2019	N	3			3							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.6	6.4	165	2019	N	2			2							
Upbound	Domestic	4	802	2739	195.0	35.0	8	14.0	1.6	6.4	250	2019	N	1			1							
Upbound	Domestic	4	000764	2073	200.0	35.0	10	11.0	1.6	8.4	230	2019	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic		4 705	1551	200.0	35.0	7	9.0	1.5	5.5	224	2019	N	1			1							
Upbound	Domestic		4 856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2019	N	1			1							
Upbound	Domestic		4 763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2019	N	4			4							
Upbound	Domestic		5 766	1485	195.0	35.0	8	8.5	2.0	6.0	133	2019	N	1					1					
Upbound	Domestic		4 000823	2604	200.0	35.0	8	14.0	1.7	6.3	256	2019	N	1			1							
Upbound	Domestic		4 802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2019	N	1			1							
Upbound	Domestic		4 000823	2739	200.0	35.0	8	14.0	1.6	6.4	9999	2019	N	1			1							
Upbound	Domestic		4 000764	1862	200.0	35.0	9	10.0	1.6	7.4	191	2019	N	1			1							
Upbound	Domestic		4 000823	1635	200.0	35.0	9	9.0	1.5	7.5	175	2019	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2019	N	19			19							
Upbound	Domestic		4 770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2019	N	1			1							
Upbound	Domestic		4 764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2019	N	1			1							
Upbound	Domestic		4 000706	1569	200.0	35.0	8	9.0	1.6	6.4	205	2019	N	1			1							
Upbound	Domestic		4 823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2019	N	7			7							
Upbound	Domestic		4 000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	5			5							
Upbound	Domestic		4 000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2019	N	3			3							
Upbound	Domestic		4 000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2019	N	3			3							
Upbound	Domestic		5 001754	3665	297.5	54.0	10	11.0	2.0	8.0	180	2019	N	1					1					
Upbound	Domestic		4 000764	2200	200.0	35.0	7	12.0	2.0	5.0	165	2019	N	1			1							
Upbound	Domestic		4 000764	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2019	N	1			1							
Upbound	Domestic		4 764	1673	200.0	35.0	8	9.0	1.4	6.6	165	2019	N	1			1							
Upbound	Domestic		4 000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2019	N	2			2							
Upbound	Domestic		4 823	2282	200.0	35.0	8	12.6	1.7	6.3	190	2019	N	1			1							
Upbound	Domestic		4 823	1627	200.0	35.0	8	9.0	1.8	6.2	230	2019	N	1			1							
Upbound	Domestic		3 000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2019	N	30		30								
Upbound	Domestic		5 2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2019	N	3									3	
Upbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2019	N	24			24							
Upbound	Domestic		4 000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2019	N	5			5							
Upbound	Domestic		4 000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2019	N	6			6							
Upbound	Domestic		4 000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2019	N	1			1							
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2019	N	1			1							
Upbound	Domestic		4 000764	2200	200.0	35.0	8	11.0	2.0	6.0	165	2019	N	1			1							
Upbound	Domestic		4 000764	1568	200.0	35.0	9	9.0	1.6	7.4	223	2019	N	1			1							
Upbound	Domestic		4 000764	2085	200.0	35.0	2	13.0	1.5	0.5	9999	2019	N	1							1			
Upbound	Domestic		3 000143	477	110.0	35.0	2	10.0	2.0	0.0	9999	2019	N	34		34								
Upbound	Domestic		5 1092	2100	175.0	54.0	2	8.5	1.3	0.7	180	2019	N	1									1	
Upbound	Domestic		4 000764	1539	200.0	35.0	2	9.0	1.7	0.3	225	2019	N	2							2			
Upbound	Domestic		4 764	1639	200.0	35.0	9	9.0	1.6	7.4	225	2019	N	1			1							
Upbound	Domestic		4 764	1657	200.0	35.0	9	9.0	1.5	7.5	170	2019	N	2			2							
Upbound	Domestic		4 000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2019	N	4			4							
Upbound	Domestic		4 000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2019	N	3			3							
Upbound	Domestic		4 000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2019	N	3			3							
Upbound	Domestic		4 000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2019	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	9	10.0	1.8	7.2	206	2019	N	1			1							
Upbound	Domestic		4 764	1668	200.0	35.0	8	9.0	1.4	6.6	148	2019	N	1			1							
Upbound	Domestic		4 764	1560	200.0	35.0	9	9.0	1.6	7.4	225	2019	N	1			1							
Upbound	Domestic		5 1619	3390	297.5	54.0	2	12.0	2.0	0.0	180	2019	N	1									1	
Upbound	Domestic		4 764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2019	N	3			3							
Upbound	Domestic		4 000745	2100	195.0	35.0	8	10.0	3.0	5.0	9999	2019	N	2			2							
Upbound	Domestic		4 000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2019	N	3			3							
Upbound	Domestic		4 823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2019	N	3			3							
Upbound	Domestic		5 001754	4444	297.5	54.0	8	11.0	2.0	6.0	200	2019	N	1					1					
Upbound	Domestic		4 705	1600	200.0	35.0	8	9.0	1.6	6.4	170	2019	N	2			2							
Upbound	Domestic		5 2424	2212	295.0	50.0	2	9.0	2.0	0.0	250	2019	N	1									1	
Upbound	Domestic		4 000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2019	N	21			21							
Upbound	Domestic		4 823	2741	200.0	35.0	3	14.0	1.5	1.5	210	2019	N	1							1			
Upbound	Domestic		4 000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2019	N	1			1							
Upbound	Domestic		4 000764	2151	200.0	35.0	8	12.0	1.8	6.2	195	2019	N	1			1							
Upbound	Domestic		3 000433	637	136.0	40.0	9	10.3	8.6	0.4	420	2019	N	1		1								
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2019	N	30			30							
Upbound	Domestic		4 000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2019	N	1			1							
Upbound	Domestic		4 687	1468	195.0	35.0	9	9.0	1.9	7.1	173	2019	N	3			3							
Upbound	Domestic		4 000764	1534	200.0	35.0	8	9.0	1.7	6.3	199	2019	N	3			3							
Upbound	Domestic		4 000823	2500	200.0	35.0	8	12.0	2.0	6.0	100	2019	N	1			1							
Upbound	Domestic		4 764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2019	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2019	N	22			22							
Upbound	Domestic		4 000705	1648	200.0	35.0	12	12.0	1.5	10.5	186	2019	N	1			1							
Upbound	Domestic		4 802	2537	195.0	35.0	2	14.0	1.7	0.3	211	2019	N	1							1			
Upbound	Domestic		4 000705	2532	200.0	35.0	8	13.0	1.5	6.5	120	2019	N	1			1							
Upbound	Domestic		4 000764	2151	200.0	35.0	7	12.0	1.8	5.2	170	2019	N	1			1							
Upbound	Domestic		4 823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2019	N	2			2							
Upbound	Domestic		4 764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2019	N	2			2							
Upbound	Domestic		4 764	1666	200.0	35.0	8	9.0	1.5	6.5	170	2019	N	1			1							
Upbound	Domestic		4 000764	1546	200.0	35.0	9	9.0	1.6	7.4	205	2019	N	1			1							
Upbound	Domestic		4 823	1536	200.0	35.0	8	9.0	1.5	6.5	175	2019	N	1			1							
Upbound	Domestic		4 799	1887	200.0	35.0	2	10.0	1.4	0.6	149	2019	N	1							1			
Upbound	Domestic		4 764	2500	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	1			1							
Upbound	Domestic		4 000764	2292	200.0	35.0	3	12.0	2.0	1.0	250	2019	N	1							1			
Upbound	Domestic		4 600	1650	200.0	35.0	9	9.0	1.5	7.5	208	2019	N	1			1							
Upbound	Domestic		4 000764	1506	200.0	35.0	8	9.0	1.9	6.1	206	2019	N	2			2							
Upbound	Domestic		4 000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2019	N	8			8							
Upbound	Domestic		4 764	1668	200.0	35.0	8	9.0	1.4	6.6	160	2019	N	2			2							
Upbound	Domestic		4 823	1500	200.0	35.0	7	9.0	2.0	5.0	140	2019	N	1			1							
Upbound	Domestic		4 682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2019	N	1			1							
Upbound	Domestic		4 823	2500	200.0	35.0	8	13.0	2.0	6.0	218	2019	N	1			1							
Upbound	Domestic		4 705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2019	N	2			2							
Upbound	Domestic		4 764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	1			1							
Upbound	Domestic		4 764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2019	N	1			1							
Upbound	Domestic		4 000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2019	N	2			2							
Upbound	Domestic		5 835	1451	195.0	35.0	9	9.0	1.1	7.9	136	2019	N	1					1					
Upbound	Domestic		4 764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2019	N	1							1			
Upbound	Domestic		4 764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2019	N	1			1							
Upbound	Domestic		4 000802	1600	195.0	35.0	8	12.0	2.0	6.0	140	2019	N	12			12							
Upbound	Domestic		4 000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2019	N	4			4							
Upbound	Domestic		4 000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2019	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2019	N	30			30							
Upbound	Domestic		5 800	1371	195.0	35.0	9	8.6	2.0	7.0	182	2019	N	1					1					
Upbound	Domestic		4 000764	1484	200.0	35.0	8	9.0	1.1	6.9	225	2019	N	3			3							
Upbound	Domestic		4 823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2019	N	1			1							
Upbound	Domestic		4 802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2019	N	3			3							
Upbound	Domestic		4 802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2019	N	1			1							
Upbound	Domestic		4 000764	1800	200.0	35.0	8	9.0	1.4	6.6	155	2019	N	1			1							
Upbound	Domestic		4 000823	2500	200.0	35.0	7	12.0	2.0	5.0	9999	2019	N	1			1							
Upbound	Domestic		4 676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2019	N	1			1							
Upbound	Domestic		4 000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2019	N	2			2							
Upbound	Domestic		4 000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2019	N	1			1							
Upbound	Domestic		5 835	1426	195.0	35.0	9	9.0	2.1	6.9	136	2019	N	6					6					
Upbound	Domestic		4 705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2019	N	2			2							
Upbound	Domestic		4 770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2019	N	3			3							
Upbound	Domestic		4 802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2019	N	4			4							
Upbound	Domestic		4 000823	2161	200.0	35.0	8	12.0	1.8	6.2	140	2019	N	1			1							
Upbound	Domestic		4 823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2019	N	2			2							
Upbound	Domestic		4 000764	2292	200.0	35.0	8	12.0	2.0	6.0	250	2019	N	1			1							
Upbound	Domestic		4 000823	2469	200.0	35.0	6	10.0	3.0	3.0	9999	2019	N	1			1							
Upbound	Domestic		3 533	999999	140.0	42.0	7	8.6	6.6	0.4	430	2019	N	1		1								
Upbound	Domestic		4 000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2019	N	1							1			

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2019	N	3			3							
Upbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2019	N	11							11			
Upbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2019	N	2			2							
Upbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	9999	2019	N	3			3							
Upbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	4			4							
Upbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2019	N	9			9							
Upbound	Domestic	4	000764	1521	200.0	35.0	9	9.0	1.8	7.2	225	2019	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2019	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2019	N	3			3							
Upbound	Domestic	4	000823	2469	200.0	35.0	2	10.0	1.7	0.3	190	2019	N	1							1			
Upbound	Domestic	4	000764	1619	200.0	35.0	9	9.0	1.7	7.3	206	2019	N	1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	6	14.0	1.7	4.3	210	2019	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	6	10.0	1.7	4.3	160	2019	N	2			2							
Upbound	Domestic	4	000705	1645	200.0	35.0	8	9.0	1.5	6.5	205	2019	N	1			1							
Upbound	Domestic	4	000764	1705	200.0	35.0	7	10.0	1.5	5.5	140	2019	N	1			1							
Upbound	Domestic	4	823	2194	200.0	35.0	6	8.0	1.4	4.6	25	2019	N	3			3							
Upbound	Domestic	5	773	1477	195.0	35.0	8	8.5	1.9	6.1	180	2019	N	2					2					
Upbound	Domestic	4	823	2059	200.0	35.0	9	12.0	1.6	7.4	25	2019	N	1			1							
Upbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2019	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	250	2019	N	1							1			
Upbound	Domestic	5	835	1426	195.0	35.0	11	12.0	3.0	8.0	136	2019	N	2					2					
Upbound	Domestic	4	000764	2532	200.0	35.0	8	13.0	1.5	6.5	120	2019	N	3			3							
Upbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2019	N	1			1							
Upbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2019	N	2			2							
Upbound	Domestic	4	000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2019	N	1			1							
Upbound	Domestic	4	000823	2800	200.0	35.0	7	12.0	2.0	5.0	225	2019	N	2			2							
Upbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2019	N	2			2							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2019	N	10			10							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2019	N	4			4							
Upbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2019	N	4			4							
Upbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	1.7	4.3	190	2019	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	10	12.0	1.5	8.5	208	2019	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	5	9.0	2.0	3.0	130	2019	N	1			1							
Upbound	Domestic	3	000365	537	141.0	34.5	8	8.5	8.0	0.0	420	2019	N	1		1								
Upbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2019	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	220	2019	N	1			1							
Upbound	Domestic	4	000823	2500	200.0	35.0	8	12.0	2.0	6.0	9999	2019	N	6			6							
Upbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2019	N	1			1							
Upbound	Domestic	4	000706	1557	200.0	35.0	8	9.0	1.6	6.4	205	2019	N	1			1							
Upbound	Domestic	4	000764	1637	200.0	35.0	9	9.0	1.7	7.3	199	2019	N	1			1							
Upbound	Domestic	4	764	1864	200.0	35.0	8	10.0	1.6	6.4	224	2019	N	1			1							
Upbound	Domestic	3	000294	999999	114.0	35.0	11	11.0	11.0	0.0	420	2019	N	15		15								
Upbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2019	N	1		1								
Upbound	Domestic	5	1766	3164	290.0	54.0	2	9.0	1.8	0.2	180	2019	N	1									1	
Upbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2019	N	4			4							
Upbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2019	N	2			2							
Upbound	Domestic	5	705	1400	195.0	35.0	9	9.0	2.0	7.0	168	2019	N	3					3					
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.5	7.5	180	2019	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2019	N	5			5							
Upbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2019	N	5			5							
Upbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2019	N	5			5							
Upbound	Domestic	4	000764	1633	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	2			2							
Upbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2019	N	3			3							
Upbound	Domestic	4	000764	1560	200.0	35.0	9	9.0	3.0	6.0	9999	2019	N	1			1							
Upbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2019	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2019	N	1			1							
Upbound	Domestic	4	000764	1619	200.0	35.0	9	10.0	3.0	6.0	206	2019	N	1			1							
Upbound	Domestic	4	823	2304	200.0	35.0	7	10.0	1.7	5.3	190	2019	N	1			1							
Upbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2019	N	3							3			
Upbound	Domestic	4	823	2500	200.0	35.0	8	12.0	2.0	6.0	250	2019	N	2			2							
Upbound	Domestic	4	000705	2728	200.0	35.0	9	14.0	1.6	7.4	256	2019	N	1			1							
Upbound	Domestic	4	000764	1615	200.0	35.0	10	11.0	1.8	8.2	170	2019	N	1			1							
Upbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2019	N	1			1							
Upbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2019	N	2			2							
Upbound	Domestic	4	000823	1750	200.0	35.0	2	10.0	1.7	0.3	140	2019	N	1							1			
Upbound	Domestic	4	000764	2077	200.0	35.0	6	11.0	1.5	4.5	215	2019	N	1			1							
Upbound	Domestic	4	000764	2085	200.0	35.0	2	13.0	1.5	0.5	240	2019	N	2							2			
Upbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2019	N	3			3							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	255	2019	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	4	10.0	1.7	2.3	215	2019	N	1			1							
Upbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2019	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2019	N	1			1							
Upbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2019	N	44		44								
Upbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2019	N	30			30							
Upbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2019	N	1			1							
Upbound	Domestic	5	001754	5262	297.5	54.0	8	12.0	2.0	6.0	180	2019	N	1					1					
Upbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2019	N	2			2							
Upbound	Domestic	4	823	2739	200.0	35.0	6	12.0	1.6	4.4	250	2019	N	1			1							
Upbound	Domestic	4	000823	2058	200.0	35.0	11	12.0	2.0	9.0	9999	2019	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2019	N	1			1							
Upbound	Domestic	4	705	1875	200.0	35.0	6	10.0	1.4	4.6	191	2019	N	1			1							
Upbound	Domestic	4	000700	2187	200.0	35.0	9	12.0	1.7	7.3	250	2019	N	1			1							
Upbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2019	N	3		3								
Upbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2019	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2019	N	1			1							
Upbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	3			3							
Upbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2019	N	5			5							
Upbound	Domestic	4	823	2500	200.0	35.0	8	12.0	2.0	6.0	181	2019	N	1			1							
Upbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2019	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	12.0	1.8	8.2	206	2019	N	2			2							
Upbound	Domestic	4	000764	1506	200.0	35.0	12	12.0	1.8	10.2	206	2019	N	1			1							
Upbound	Domestic	3	000143	0	110.0	35.0	9	9.0	9.0	0.0	34	2019	N	13		13								
Upbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	250	2019	N	2			2							
Upbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2019	N	1			1							
Upbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2019	N	2			2							
Upbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2019	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	220	2019	N	1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2019	N	1			1							
Upbound	Domestic	5	000825	1485	195.0	35.0	8	9.0	1.8	6.2	194	2019	N	5					5					
Upbound	Domestic	4	764	1548	200.0	35.0	7	9.0	1.7	5.3	212	2019	N	1			1							
Upbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2019	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2019	N	3			3							
Upbound	Domestic	4	000823	2000	200.0	35.0	8	12.0	2.0	6.0	100	2019	N	7			7							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2019	N	4			4							
Upbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2019	N	3			3							
Upbound	Domestic	4	764	2077	200.0	35.0	8	12.0	1.5	6.5	215	2019	N	1			1							
Upbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	3	10.0	1.7	1.3	190	2019	N	2							2			
Upbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	190	2019	N	1							1			
Upbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	170	2019	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2019	N	8			8							
Upbound	Domestic	4	823	2500	200.0	35.0	8	13.0	2.0	6.0	250	2019	N	1			1							
Upbound	Domestic	4	000764	1658	200.0	35.0	6	9.0	1.6	4.4	230	2019	N	1			1							
Upbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	12.0	2.0	5.0	165	2019	N	3			3							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	764	2098	200.0	35.0	7	11.0	1.5	5.5	218	2019	N	1			1							
Upbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2019	N	1			1							
Upbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2019	N	1			1							
Upbound	Domestic	4	000705	1647	200.0	35.0	9	9.0	1.5	7.5	205	2019	N	1			1							
Upbound	Domestic	4	000764	1590	200.0	35.0	11	9.0	3.0	8.0	9999	2019	N	1			1							
Upbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2019	N	6			6							
Upbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2019	N	4			4							
Upbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2019	N	1			1							
Upbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2019	N	1			1							
Upbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2019	N	9			9							
Upbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2019	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.8	6.2	206	2019	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	8	12.0	2.0	6.0	165	2019	N	1			1							
Upbound	Domestic	4	823	2280	200.0	35.0	7	12.0	1.8	5.2	224	2019	N	1			1							
Upbound	Domestic	4	000745	1497	195.0	35.0	2	9.0	1.6	0.4	139	2019	N	1							1			
Upbound	Domestic	5	1961	6100	297.0	54.0	2	9.6	1.5	0.5	120	2019	N	1									1	
Upbound	Domestic	3	000303	64	90.0	34.0	10	9.0	7.6	2.4	490	2019	N	1		1								
Upbound	Domestic	4	823	2059	200.0	35.0	9	14.0	1.6	7.4	25	2019	N	1			1							
Upbound	Domestic	4	000764	1551	200.0	35.0	7	9.0	1.6	5.4	225	2019	N	1			1							
Upbound	Domestic	4	764	1657	200.0	35.0	9	9.0	1.5	7.5	157	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2019	N	8			8							
Upbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2019	N	6			6							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	12.0	2.0	9.0	208	2019	N	1			1							
Upbound	Domestic	4	000823	2000	200.0	35.0	8	12.0	2.0	6.0	180	2019	N	1			1							
Upbound	Domestic	4	000705	1544	200.0	35.0	8	9.0	1.5	6.5	135	2019	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	10	11.0	1.8	8.2	206	2019	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2019	N	2			2							
Upbound	Domestic	4	000764	1536	200.0	35.0	7	9.0	1.8	5.2	225	2019	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2019	N	3			3							
Upbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2019	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	7	11.0	2.0	5.0	220	2019	N	2			2							
Upbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2019	N	2			2							
Upbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	160	2019	N	1			1							
Upbound	Domestic	4	000764	1539	200.0	35.0	2	13.0	1.9	0.1	206	2019	N	1							1			
Upbound	Domestic	4	000764	2488	200.0	35.0	8	12.0	1.6	6.4	9999	2019	N	1			1							
Upbound	Domestic	4	000764	2085	200.0	35.0	3	13.0	1.5	1.5	240	2019	N	1							1			
Upbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2019	N	7			7							
Upbound	Domestic	5	001754	3100	297.5	54.0	11	10.3	2.0	9.0	180	2019	N	1					1					
Upbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2019	N	3			3							
Upbound	Domestic	4	922	1635	200.0	35.0	11	12.0	1.8	9.2	250	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	165	2019	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	12	13.0	1.5	10.5	208	2019	N	1			1							
Upbound	Domestic	4	823	2059	200.0	35.0	6	8.0	1.6	4.4	25	2019	N	1			1							
Upbound	Domestic	4	000823	2881	200.0	35.0	8	12.0	3.0	5.0	9999	2019	N	1			1							
Upbound	Domestic	4	823	1536	200.0	35.0	8	9.0	1.6	6.4	175	2019	N	1			1							
Upbound	Domestic	3	634	999999	145.0	48.0	9	10.0	9.0	0.0	426	2019	N	2		2								
Upbound	Domestic	4	823	2059	200.0	35.0	2	14.0	1.6	0.4	25	2019	N	1							1			
Upbound	Domestic	4	000823	2880	200.0	35.0	7	12.0	2.0	5.0	9999	2019	N	8			8							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	11.0	1.7	6.3	160	2019	N	1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2019	N	4			4							
Upbound	Domestic	4	000764	1677	200.0	35.0	7	9.0	1.4	5.6	165	2019	N	1			1							
Upbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	2			2							
Upbound	Domestic	4	000745	2100	195.0	35.0	7	10.0	3.0	4.0	9999	2019	N	2			2							
Upbound	Domestic	4	000764	1650	200.0	35.0	9	11.0	1.5	7.5	208	2019	N	1			1							
Upbound	Domestic	4	000764	1742	200.0	35.0	8	10.0	1.7	6.3	130	2019	N	2			2							
Upbound	Domestic	5	1619	3390	297.5	54.0	11	12.0	2.0	9.0	180	2019	N	1					1					
Upbound	Domestic	4	000700	2187	200.0	35.0	2	12.0	1.7	0.3	250	2019	N	1							1			
Upbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2019	N	13			13							
Upbound	Domestic	4	000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2019	N	5			5							
Upbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2019	N	10			10							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2019	N	5			5							
Upbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	206	2019	N	1			1							
Upbound	Domestic	4	000764	2408	200.0	35.0	8	13.0	1.6	6.4	220	2019	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2019	N	2			2							
Upbound	Domestic	4	000823	2292	200.0	35.0	8	12.0	2.0	6.0	250	2019	N	1			1							
Upbound	Domestic	4	000745	1865	200.0	35.0	9	10.0	1.5	7.5	139	2019	N	1			1							
Upbound	Domestic	3	000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2019	N	17		17								
Upbound	Domestic	4	823	2194	200.0	35.0	2	14.0	1.4	0.6	25	2019	N	1							1			
Upbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2019	N	13			13							
Upbound	Domestic	4	000724	1532	200.0	35.0	3	9.0	1.7	1.3	160	2019	N	4							4			
Upbound	Domestic	4	000745	2235	195.0	35.0	8	10.0	3.0	5.0	216	2019	N	2			2							
Upbound	Domestic	4	000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2019	N	1			1							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	212	2019	N	1			1							
Upbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2019	N	2			2							
Upbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2019	N	3			3							
Upbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2019	N	1			1							
Upbound	Domestic	4	823	2345	200.0	35.0	8	12.0	1.8	6.2	223	2019	N	1			1							
Upbound	Domestic	5	773	1489	195.0	35.0	8	9.0	1.3	6.7	160	2019	N	2					2					
Upbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2019	N	2			2							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2019	N	5			5							
Upbound	Domestic	5	001918	3100	297.5	54.0	10	10.3	2.0	8.0	193	2019	N	1					1					
Upbound	Domestic	4	823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2019	N	3			3							
Upbound	Domestic	4	000764	2500	200.0	35.0	6	9.0	1.7	4.3	206	2019	N	1			1							
Upbound	Domestic	4	000745	2100	195.0	35.0	8	12.0	2.0	6.0	9999	2019	N	3			3							
Upbound	Domestic	4	000764	1648	200.0	35.0	11	13.0	2.0	9.0	208	2019	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2019	N	1			1							
Upbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2019	N	4			4							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2019	N	1			1							
Upbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2019	N	2			2							
Upbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2019	N	1			1							
Upbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	230	2019	N	3							3			
Upbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2019	N	13			13							
Upbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2019	N	11			11							
Upbound	Domestic	4	000823	1638	200.0	35.0	8	9.0	1.5	6.5	175	2019	N	1			1							
Upbound	Domestic	4	000823	1600	195.0	35.0	8	12.0	2.0	6.0	140	2019	N	4			4							
Upbound	Domestic	4	000764	2292	200.0	35.0	9	10.0	1.5	7.5	160	2019	N	1			1							
Upbound	Domestic	4	000764	1739	200.0	35.0	9	10.0	1.7	7.3	130	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	190	2019	N	1							1			
Upbound	Domestic	5	001754	6100	297.5	54.0	2	12.0	2.0	0.0	180	2019	N	1									1	
Upbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2019	N	7			7							
Upbound	Domestic	4	823	1750	200.0	35.0	8	10.0	1.7	6.3	165	2019	N	1			1							
Upbound	Domestic	4	578	1531	195.0	35.0	9	9.0	1.6	7.4	140	2019	N	2			2							
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.7	6.3	209	2019	N	1			1							
Upbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2019	N	1			1							
Upbound	Domestic	4	000764	2007	200.0	35.0	7	10.0	2.0	5.0	9999	2019	N	1			1							
Upbound	Domestic	4	764	1669	200.0	35.0	8	9.0	1.6	6.4	120	2019	N	2			2							
Upbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2019	N	3			3							
Upbound	Domestic	4	823	2077	200.0	35.0	12	12.0	1.5	10.5	215	2019	N	1			1							
Upbound	Domestic	4	687	1829	200.0	35.0	9	10.6	1.5	7.5	220	2019	N	1			1							
Upbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2019	N	6			6							
Upbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2019	N	4			4							
Upbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2019	N	6			6							
Upbound	Domestic	4	000764	2085	200.0	35.0	11	13.0	1.5	9.5	240	2019	N	1			1							
Upbound	Domestic	4	764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2019	N	1			1							
Upbound	Domestic	4	764	1635	200.0	35.0	8	9.0	1.5	6.5	165	2019	N	1			1							
Upbound	Domestic	4	823	1627	200.0	35.0	11	12.0	1.8	9.2	230	2019	N	1			1							

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Upbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2019	N	1			1							
Upbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2019	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	130	2019	N	4			4							
Upbound	Domestic	4	823	2500	200.0	35.0	8	12.0	2.0	6.0	218	2019	N	6			6							
Upbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2019	N	2			2							
Upbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2019	N	3			3							
Upbound	Domestic	4	745	1498	195.0	35.0	9	9.0	1.7	7.3	206	2019	N	1			1							
Upbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2019	N	4			4							
Upbound	Domestic	4	000764	1506	200.0	35.0	2	12.0	1.8	0.2	206	2019	N	1							1			
Upbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2019	N	6			6							
Upbound	Domestic	4	772	2415	200.0	35.0	9	13.0	1.5	7.5	130	2019	N	1			1							
Upbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2019	N	4							4			
Upbound	Domestic	4	823	2600	200.0	35.0	8	14.0	1.7	6.3	231	2019	N	2			2							
Upbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2019	N	1			1							
Upbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.1	7.9	210	2019	N	1			1							
Upbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2019	N	2			2							
Upbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2019	N	16			16							
Upbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2019	N	2			2							
Upbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2019	N	4			4							
Upbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2019	N	2			2							
Upbound	Domestic	4	000764	1956	200.0	35.0	6	9.0	2.0	4.0	196	2019	N	1			1							
Upbound	Domestic	4	000764	2292	200.0	35.0	3	10.0	1.7	1.3	160	2019	N	1							1			
Upbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2019	N	4		4								
Upbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2019	N	4			4							
Upbound	Domestic	4	000764	2190	200.0	35.0	9	12.0	2.0	7.0	160	2019	N	1			1							
Upbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2019	N	2			2							
Upbound	Domestic	4	802	2107	195.0	35.0	8	12.0	1.6	6.4	214	2019	N	1			1							
Upbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2019	N	1			1							
Upbound	Domestic	4	000764	1541	200.0	35.0	9	9.0	1.6	7.4	143	2019	N	1			1							
Upbound	Domestic	4	802	2100	195.0	35.0	8	12.0	2.0	6.0	217	2019	N	2			2							
Upbound	Domestic	5	835	1451	195.0	35.0	8	9.0	1.1	6.9	136	2019	N	2					2					
Upbound	Domestic	3	609	999999	145.0	48.0	9	9.8	9.0	0.0	450	2019	N	3		3								
Upbound	Domestic	5	835	1426	195.0	35.0	8	9.0	2.1	5.9	136	2019	N	16					16					
Upbound	Domestic	4	000745	2292	195.0	35.0	8	15.0	3.0	5.0	9999	2019	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2019	N	6			6							
Upbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	210	2019	N	1			1							
Upbound	Domestic	4	000764	1652	200.0	35.0	11	12.0	3.0	8.0	215	2019	N	1			1							
Upbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2019	N	4			4							
Upbound	Domestic	4	764	1648	200.0	35.0	11	11.0	1.5	9.5	186	2019	N	1			1							
Upbound	Domestic	4	856	2312	200.0	35.0	8	12.0	1.5	6.5	217	2019	N	1			1							
Upbound	Domestic	4	764	1875	200.0	35.0	7	10.0	1.7	5.3	154	2019	N	1			1							
Upbound	Domestic	3	124	999999	75.7	30.0	8	8.0	7.5	0.5	300	2019	N	2		2								
Upbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2019	N	5			5							
Upbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2019	N	3			3							
Upbound	Domestic	4	823	2398	200.0	35.0	7	13.0	2.0	5.0	165	2019	N	1			1							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2019	N	5			5							
Upbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2019	N	5			5							
Upbound	Domestic	4	823	2077	200.0	35.0	10	11.0	1.5	8.5	215	2019	N	1			1							
Upbound	Domestic	4	823	1500	200.0	35.0	8	9.0	2.0	6.0	140	2019	N	3			3							
Upbound	Domestic	4	823	2188	200.0	35.0	4	12.0	1.6	2.4	225	2019	N	1			1							
Upbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.6	6.4	207	2019	N	1			1							
Upbound	Domestic	4	000823	2300	200.0	35.0	10	13.0	1.6	8.4	165	2019	N	1			1							
Upbound	Domestic	4	000764	1504	200.0	35.0	13	13.0	1.9	11.1	206	2019	N	1			1							
Upbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2019	N	1			1							
Upbound	Domestic	3	000143	999999	114.0	35.0	11	11.0	11.0	0.0	420	2019	N	34		34								
Upbound	Domestic	4	000764	1633	200.0	35.0	2	9.0	1.6	0.4	225	2019	N	1							1			
Upbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2019	N	9			9							
Upbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2019	N	12			12							
Upbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2019	N	2			2							
Upbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2019	N	1			1							
Upbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2019	N	7			7							
Upbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2019	N	2			2							
Upbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2019	N	1			1							
Upbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2019	N	4			4							
Upbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	6			6							
Upbound	Domestic	4	706	1575	200.0	35.0	7	9.0	1.6	5.4	205	2019	N	1			1							
Upbound	Domestic	4	000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2019	N	2			2							
Upbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	2.0	5.0	9999	2019	N	3			3							
Upbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2019	N	1			1							
Upbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2019	N	2			2							
Upbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2019	N	1			1							
Upbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2019	N	1			1							
Upbound	Domestic	4	000745	1800	200.0	35.0	9	10.0	3.0	6.0	9999	2019	N	1			1							
Upbound	Domestic	4	000705	1645	200.0	35.0	7	9.0	1.5	5.5	205	2019	N	1			1							
Upbound	Domestic	4	856	2312	200.0	35.0	9	12.0	1.5	7.5	217	2019	N	1			1							
Upbound	Domestic	4	823	2579	200.0	35.0	2	14.0	1.7	0.3	231	2019	N	1							1			
Upbound	Domestic	4	705	1650	200.0	35.0	9	9.0	1.5	7.5	208	2019	N	1			1							
Upbound	Domestic	4	000823	2792	200.0	35.0	7	12.0	1.7	5.3	250	2019	N	4			4							
Upbound	Domestic	5	001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2019	N	1					1					
Upbound	Domestic	4	764	1530	200.0	35.0	8	9.0	1.6	6.4	154	2019	N	3			3							
Upbound	Domestic	4	772	2197	200.0	35.0	8	12.0	1.6	6.4	130	2019	N	1			1							
Upbound	Domestic	4	000764	1765	200.0	35.0	10	11.0	2.0	8.0	165	2019	N	1			1							
Upbound	Domestic	4	705	1885	200.0	35.0	9	10.0	1.4	7.6	208	2019	N	1			1							
Upbound	Domestic	4	764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2019	N	3			3							
Upbound	Domestic	4	000687	1490	195.0	35.0	8	9.0	1.8	6.2	205	2019	N	1			1							
Upbound	Domestic	4	000764	1650	200.0	35.0	10	13.0	1.5	8.5	208	2019	N	1			1							
Upbound	Domestic	4	000764	1956	200.0	35.0	2	9.0	2.0	0.0	196	2019	N	2							2			
Upbound	Domestic	4	856	1856	200.0	35.0	8	10.0	1.6	6.4	210	2019	N	2			2							
Upbound	Domestic	4	000705	1650	200.0	35.0	11	12.0	1.5	9.5	208	2019	N	1			1							
Upbound	Domestic	4	000764	1591	200.0	35.0	9	9.0	3.0	6.0	9999	2019	N	1			1							
Downbound	Domestic	5	1619	3660	297.5	54.0	9	11.0	2.0	7.0	160	2019	N	1						1				
Downbound	Domestic	4	764	1528	200.0	35.0	8	9.0	1.7	6.3	163	2019	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	1.7	5.3	160	2019	N	4				4						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	205	2019	N	6				6						
Downbound	Domestic	4	000764	2300	200.0	35.0	10	13.0	1.5	8.5	165	2019	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	6	12.0	1.8	4.2	210	2019	N	1				1						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.5	7.5	148	2019	N	1				1						
Downbound	Domestic	4	000764	1640	200.0	35.0	8	9.0	1.5	6.5	160	2019	N	1				1						
Downbound	Domestic	4	000764	1539	200.0	35.0	12	13.0	1.9	10.1	206	2019	N	2				2						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	215	2019	N	2				2						
Downbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.6	6.4	160	2019	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	1.6	0.4	220	2019	N	6								6		
Downbound	Domestic	4	764	2100	200.0	35.0	2	12.0	1.5	0.5	186	2019	N	2								2		
Downbound	Domestic	4	764	1665	200.0	35.0	2	9.0	1.4	0.6	155	2019	N	2								2		
Downbound	Domestic	4	000745	1504	200.0	35.0	2	9.0	1.9	0.1	206	2019	N	2								2		
Downbound	Domestic	4	000764	2131	200.0	35.0	2	13.0	1.9	0.1	206	2019	N	1								1		
Downbound	Domestic	4	000764	1521	200.0	35.0	8	9.0	1.8	6.2	225	2019	N	11				11						
Downbound	Domestic	4	705	1554	200.0	35.0	9	9.0	1.5	7.5	150	2019	N	3				3						
Downbound	Domestic	4	000882	2646	200.0	35.0	5	9.0	2.0	3.0	9999	2019	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	7	9.0	1.6	5.4	206	2019	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	220	2019	N	1				1						
Downbound	Domestic	4	000705	1648	200.0	35.0	2	12.0	1.5	0.5	186	2019	N	1								1		
Downbound	Domestic	4	000825	1800	200.0	35.0	3	10.0	3.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	4	000764	2468	200.0	35.0	2	13.0	1.5	0.5	208	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	9999	2019	N	13				13						
Downbound	Domestic	4	687	1501	195.0	35.0	11	12.0	1.5	9.5	186	2019	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less. **OK**

Total Trips = **84400**

DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINER IZED	TRIPS	Self-Propelled	Towboat	Loaded Hopper Upbound	Loaded Hopper Downbound	Loaded Tanker Upbound	Loaded Tanker Downbound	Unloaded Hopper Upbound	Unloaded Hopper Downbound	Unloaded Tanker Upbound	Unloaded Tanker Downbound
															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
Downbound	Domestic	4	600	1650	200.0	35.0	8	9.0	1.5	6.5	208	2019	N	2				2						
Downbound	Domestic	4	000719	1553	200.0	35.0	8	9.0	2.0	6.0	130	2019	N	2				2						
Downbound	Domestic	4	000764	2192	200.0	35.0	8	12.0	2.0	6.0	9999	2019	N	1				1						
Downbound	Domestic	4	000700	2290	200.0	35.0	9	12.0	1.6	7.4	250	2019	N	2				2						
Downbound	Domestic	4	823	2304	200.0	35.0	8	12.0	1.7	6.3	190	2019	N	1				1						
Downbound	Domestic	4	000705	1647	200.0	35.0	2	9.0	1.5	0.5	205	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.5	5.5	175	2019	N	3				3						
Downbound	Domestic	4	764	1542	200.0	35.0	8	9.0	1.6	6.4	160	2019	N	3				3						
Downbound	Domestic	5	2360	2500	270.0	50.0	9	9.0	3.0	6.0	230	2019	N	3						3				
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	250	2019	N	3				3						
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.7	7.3	199	2019	N	1				1						
Downbound	Domestic	4	000764	1742	200.0	35.0	9	10.0	1.7	7.3	130	2019	N	1				1						
Downbound	Domestic	4	823	2077	200.0	35.0	9	12.0	1.5	7.5	215	2019	N	1				1						
Downbound	Domestic	4	000764	1650	200.0	35.0	11	13.0	1.5	9.5	208	2019	N	1				1						
Downbound	Domestic	4	000802	1600	195.0	35.0	2	12.0	2.0	0.0	140	2019	N	8								8		
Downbound	Domestic	4	000764	1521	200.0	35.0	2	9.0	1.8	0.2	225	2019	N	1								1		
Downbound	Domestic	4	000823	2739	200.0	35.0	8	14.0	1.6	6.4	140	2019	N	5				5						
Downbound	Domestic	4	706	1575	200.0	35.0	8	9.0	1.6	6.4	205	2019	N	3				3						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	5				5						
Downbound	Domestic	5	1619	4298	297.5	54.0	9	12.0	2.0	7.0	220	2019	N	1						1				
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	186	2019	N	3				3						
Downbound	Domestic	4	000764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2019	N	1				1						
Downbound	Domestic	4	935	2074	200.0	35.0	9	10.5	1.6	7.4	180	2019	N	1				1						
Downbound	Domestic	4	745	1498	195.0	35.0	8	9.0	1.7	6.3	206	2019	N	4				4						
Downbound	Domestic	4	802	2537	195.0	35.0	9	14.0	1.7	7.3	211	2019	N	1				1						
Downbound	Domestic	5	1455	3200	290.0	54.0	2	10.0	2.0	0.0	170	2019	N	1										1
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	170	2019	N	1								1		
Downbound	Domestic	5	2380	2500	300.0	50.0	3	9.0	2.5	0.5	220	2019	N	1										1
Downbound	Domestic	4	705	2002	200.0	35.0	7	9.0	2.0	5.0	190	2019	N	1				1						
Downbound	Domestic	4	706	1575	200.0	35.0	9	9.0	1.6	7.4	205	2019	N	2				2						
Downbound	Domestic	4	000764	2100	200.0	35.0	8	12.0	2.0	6.0	165	2019	N	1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	8	11.0	1.5	6.5	218	2019	N	3				3						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.4	7.6	215	2019	N	1				1						
Downbound	Domestic	3	390	999999	138.0	44.0	9	9.1	8.9	0.1	470	2019	N	2		2								
Downbound	Domestic	4	000745	2235	195.0	35.0	2	10.0	3.0	-1.0	216	2019	N	1								1		
Downbound	Domestic	4	764	1626	200.0	35.0	2	9.0	1.5	0.5	165	2019	N	1								1		
Downbound	Domestic	4	000601	1450	195.0	35.0	2	10.5	2.0	0.0	120	2019	N	1								1		
Downbound	Domestic	4	687	1829	200.0	35.0	2	10.6	1.5	0.5	220	2019	N	1								1		
Downbound	Domestic	4	764	1559	200.0	35.0	8	9.0	1.5	6.5	170	2019	N	2				2						
Downbound	Domestic	4	705	1556	200.0	35.0	9	9.0	1.5	7.5	223	2019	N	1				1						
Downbound	Domestic	4	000764	1606	200.0	35.0	12	9.0	3.0	9.0	9999	2019	N	1				1						
Downbound	Domestic	4	706	1563	200.0	35.0	8	9.0	1.7	6.3	205	2019	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	9	9.0	1.7	7.3	164	2019	N	2				2						
Downbound	Domestic	5	001857	2500	298.0	53.0	9	9.0	2.0	7.0	220	2019	N	3						3				
Downbound	Domestic	5	2482	2500	293.0	50.0	9	9.0	2.0	7.0	220	2019	N	6						6				
Downbound	Domestic	5	2356	2500	270.0	50.0	9	9.0	3.0	6.0	230	2019	N	3						3				
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	157	2019	N	1				1						
Downbound	Domestic	4	687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2019	N	1				1						
Downbound	Domestic	4	764	1629	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	15.0	3.0	5.0	9999	2019	N	1				1						
Downbound	Domestic	5	1808	2700	245.0	54.0	2	10.0	2.0	0.0	170	2019	N	2										2
Downbound	Domestic	4	000745	2100	195.0	35.0	3	10.0	3.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	4	000764	1539	200.0	35.0	8	9.0	1.7	6.3	225	2019	N	6				6						
Downbound	Domestic	4	000764	1965	200.0	35.0	10	13.0	1.6	8.4	240	2019	N	5				5						
Downbound	Domestic	4	000823	2594	200.0	35.0	7	12.0	1.8	5.2	250	2019	N	2				2						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	15.0	3.0	5.0	9999	2019	N	1				1						
Downbound	Domestic	4	764	1800	200.0	35.0	9	12.0	1.8	7.2	160	2019	N	1				1						
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	160	2019	N	2								2		
Downbound	Domestic	4	000764	2073	200.0	35.0	2	11.0	1.6	0.4	230	2019	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	2	9.0	1.5	0.5	165	2019	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2019	N	16				16						
Downbound	Domestic	4	000705	2145	200.0	35.0	7	10.0	3.0	4.0	135	2019	N	2				2						
Downbound	Domestic	4	000882	2646	200.0	35.0	6	9.0	2.0	4.0	9999	2019	N	5				5						
Downbound	Domestic	4	000764	1935	200.0	35.0	10	12.0	1.8	8.2	195	2019	N	2				2						
Downbound	Domestic	5	2688	2800	298.0	54.0	8	8.6	4.0	4.0	260	2019	N	2						2				
Downbound	Domestic	3	000143	0	110.1	35.0	9	9.0	9.0	0.0	100	2019	N	15		15								
Downbound	Domestic	4	000823	2594	200.0	35.0	2	12.0	1.8	0.2	250	2019	N	2								2		
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	3.0	4.0	9999	2019	N	3				3						
Downbound	Domestic	4	764	1658	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	2				2						
Downbound	Domestic	4	764	2075	200.0	35.0	7	9.0	2.0	5.0	130	2019	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.5	7.5	165	2019	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	12.0	2.0	6.0	155	2019	N	1				1						
Downbound	Domestic	4	000764	1855	200.0	35.0	8	10.0	1.7	6.3	130	2019	N	2				2						
Downbound	Domestic	4	764	2077	200.0	35.0	10	12.0	1.5	8.5	215	2019	N	1				1						
Downbound	Domestic	4	000764	1658	200.0	35.0	8	9.0	1.6	6.4	230	2019	N	1				1						
Downbound	Domestic	4	000764	2474	200.0	35.0	9	12.9	1.6	7.4	205	2019	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2019	N	1				1						
Downbound	Domestic	4	772	2197	200.0	35.0	9	12.0	1.6	7.4	130	2019	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2019	N	2								2		
Downbound	Domestic	4	000745	2401	200.0	35.0	2	12.0	1.5	0.5	220	2019	N	11								11		
Downbound	Domestic	4	823	2741	200.0	35.0	2	14.0	1.5	0.5	210	2019	N	1								1		
Downbound	Domestic	4	000764	2007	200.0	35.0	8	10.0	3.0	5.0	9999	2019	N	3				3						
Downbound	Domestic	4	000764	1875	200.0	35.0	8	10.0	1.7	6.3	160	2019	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	11.0	1.5	10.5	255	2019	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	10	11.0	1.8	8.2	206	2019	N	1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	223	2019	N	1				1						
Downbound	Domestic	4	000764	2007	200.0	35.0	11	10.0	2.0	9.0	9999	2019	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.6	7.4	207	2019	N	1				1						
Downbound	Domestic	5	2840	2800	298.0	54.0	8	8.6	4.0	4.0	260	2019	N	4						4				
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	215	2019	N	1				1						
Downbound	Domestic	3	275	999999	114.0	30.0	10	9.3	9.3	0.7	420	2019	N	15		15								
Downbound	Domestic	5	1454	3200	295.0	54.0	2	10.0	2.0	0.0	170	2019	N	3										3
Downbound	Domestic	4	823	2059	200.0	35.0	10	14.0	1.6	8.4	25	2019	N	3				3						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	170	2019	N	11				11						
Downbound	Domestic	4	000823	1600	200.0	35.0	8	9.0	1.6	6.4	165	2019	N	1				1						
Downbound	Domestic	4	000764	2397	200.0	35.0	8	13.0	1.7	6.3	208	2019	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2019	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	170	2019	N	1				1						
Downbound	Domestic	4	000764	2131	200.0	35.0	8	11.0	1.9	6.1	206	2019	N	1				1						
Downbound	Domestic	4	000687	1500	195.0	35.0	9	10.0	3.0	6.0	9999	2019	N	1				1						
Downbound	Domestic	5	001622	2500	270.0	53.0	9	9.0	2.0	7.0	220	2019	N	1						1				
Downbound	Domestic	5	2482	2500	293.0	50.0	2	9.0	2.0	0.0	220	2019	N	1										1
Downbound	Domestic	3	000280	999999	84.4	35.0	10	11.0	10.0	0.0	456	2019	N	1		1								
Downbound	Domestic	4	000765	1642	200.0	35.0	8	9.0	1.8	6.2	180	2019	N	1				1						
Downbound	Domestic	4	823	2500	200.0	35.0	9	13.0	2.0	7.0	250	2019	N	1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	6				6						
Downbound	Domestic	4	935	2074	200.0	35.0	8	10.5	1.6	6.4	180	2019	N	1				1						
Downbound	Domestic	5	3084	2874	298.0	54.0	9	8.6	4.0	5.0	260	2019	N	2						2				
Downbound	Domestic	4	764	190	200.0	35.0	11	11.0	4.0	7.0	170	2019	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	191	2019	N	1								1		
Downbound	Domestic	5	835	1426	195.0	35.0	3	12.0	3.0	0.0	136	2019	N	2										2
Downbound	Domestic	4	764	2400	200.0	35.0	2	9.0	1.6	0.4	225	2019	N	1								1		
Downbound	Domestic	4	000823	2500	200.0	35.0	3	10.0	3.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	4	823	2188	200.0	35.0	2	12.0	1.6	0.4	9999	2019	N	1								1		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	11.0	1.8	0.2	170	2019	N	1								1		
Downbound	Domestic	3	141	999999	140.0	40.0	7	9.0	7.0	0.0	100	2019	N	3		3								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000764	2077	200.0	35.0	9	11.0	1.5	7.5	215	2019	N	2				2						
Downbound	Domestic	4	705	1660	200.0	35.0	8	9.0	1.4	6.6	218	2019	N	1				1						
Downbound	Domestic	4	960	2077	195.0	35.0	8	12.0	1.7	6.3	215	2019	N	2				2						
Downbound	Domestic	4	000823	2161	200.0	35.0	8	12.0	1.8	6.2	219	2019	N	4				4						
Downbound	Domestic	4	000764	2300	200.0	35.0	8	13.0	1.6	6.4	165	2019	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	9	9.0	1.9	7.1	206	2019	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	216	2019	N	10								10		
Downbound	Domestic	5	001411	2396	200.0	52.6	2	9.0	1.8	0.2	210	2019	N	2										2
Downbound	Domestic	4	764	1875	200.0	35.0	2	10.0	1.7	0.3	154	2019	N	1								1		
Downbound	Domestic	4	000764	1855	200.0	35.0	2	10.0	1.7	0.3	130	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	1.7	5.3	190	2019	N	4				4						
Downbound	Domestic	4	000745	1502	195.0	35.0	9	9.0	1.6	7.4	155	2019	N	1				1						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.5	6.5	180	2019	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	8	11.0	1.5	6.5	215	2019	N	1				1						
Downbound	Domestic	5	2688	2800	298.0	54.0	4	8.6	4.0	0.0	260	2019	N	1										1
Downbound	Domestic	4	000823	2739	200.0	35.0	2	13.9	1.6	0.4	140	2019	N	1								1		
Downbound	Domestic	4	764	1673	200.0	35.0	2	9.0	1.4	0.6	165	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	4	000823	1600	200.0	35.0	8	12.0	2.0	6.0	140	2019	N	1				1						
Downbound	Domestic	4	000823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2019	N	1				1						
Downbound	Domestic	4	856	1856	200.0	35.0	9	10.0	1.6	7.4	210	2019	N	1				1						
Downbound	Domestic	4	764	1536	200.0	35.0	7	9.0	1.7	5.3	165	2019	N	1				1						
Downbound	Domestic	4	000764	1504	200.0	35.0	8	9.0	1.9	6.1	206	2019	N	2				2						
Downbound	Domestic	5	773	1477	195.0	35.0	2	8.5	1.9	0.1	180	2019	N	2										2
Downbound	Domestic	4	000764	1506	200.0	35.0	2	11.0	1.8	0.2	206	2019	N	2								2		
Downbound	Domestic	4	802	2107	195.0	35.0	9	12.0	1.6	7.4	214	2019	N	1				1						
Downbound	Domestic	4	705	1572	200.0	35.0	9	9.0	1.5	7.5	223	2019	N	1				1						
Downbound	Domestic	4	763	2290	200.0	35.0	8	13.0	1.6	6.4	236	2019	N	2				2						
Downbound	Domestic	4	000823	1635	200.0	35.0	9	9.0	1.5	7.5	175	2019	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	212	2019	N	1								1		
Downbound	Domestic	5	1961	6100	297.0	54.0	6	9.6	1.5	4.5	120	2019	N	1						1				
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	218	2019	N	8				8						
Downbound	Domestic	4	823	2398	200.0	35.0	8	13.0	2.0	6.0	165	2019	N	1				1						
Downbound	Domestic	4	770	1889	200.0	35.0	9	10.0	1.5	7.5	149	2019	N	1				1						
Downbound	Domestic	4	764	1518	200.0	35.0	9	9.0	1.7	7.3	170	2019	N	1				1						
Downbound	Domestic	4	000823	2881	200.0	35.0	2	13.0	3.0	-1.0	9999	2019	N	13								13		
Downbound	Domestic	4	000764	2090	200.0	35.0	2	12.0	1.8	0.2	120	2019	N	1								1		
Downbound	Domestic	3	189	999999	90.0	32.0	7	8.0	7.0	0.0	400	2019	N	1		1								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	10.0	1.7	0.3	160	2019	N	2								2		
Downbound	Domestic	4	000745	1502	195.0	35.0	8	9.0	1.6	6.4	155	2019	N	4				4						
Downbound	Domestic	4	000764	1484	200.0	35.0	9	9.0	1.1	7.9	225	2019	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	170	2019	N	3				3						
Downbound	Domestic	4	000764	1556	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	5				5						
Downbound	Domestic	5	001619	3500	297.6	54.0	8	9.0	1.0	7.0	220	2019	N	1						1				
Downbound	Domestic	4	823	2748	200.0	35.0	8	14.0	1.5	6.5	215	2019	N	1				1						
Downbound	Domestic	4	705	1551	200.0	35.0	8	9.0	1.5	6.5	224	2019	N	1				1						
Downbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	190	2019	N	2				2						
Downbound	Domestic	3	000143	999999	110.1	35.0	11	11.0	11.0	0.0	420	2019	N	30		30								
Downbound	Domestic	4	000823	2000	200.0	35.0	2	12.0	2.0	0.0	180	2019	N	1								1		
Downbound	Domestic	5	2840	2800	298.0	54.0	4	8.6	4.0	0.0	260	2019	N	4										4
Downbound	Domestic	5	2360	2500	270.0	50.0	3	9.0	3.0	0.0	230	2019	N	1										1
Downbound	Domestic	4	000705	1645	200.0	35.0	2	9.0	1.5	0.5	205	2019	N	1								1		
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	9999	2019	N	9				9						
Downbound	Domestic	4	000745	1497	195.0	35.0	8	9.0	1.6	6.4	139	2019	N	6				6						
Downbound	Domestic	4	000700	2290	200.0	35.0	8	12.0	1.6	6.4	250	2019	N	1				1						
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	208	2019	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	8	13.0	2.0	6.0	9999	2019	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	180	2019	N	4				4						
Downbound	Domestic	4	705	1893	200.0	35.0	8	10.0	1.4	6.6	204	2019	N	1				1						
Downbound	Domestic	4	000764	2200	200.0	35.0	8	11.0	2.0	6.0	165	2019	N	1				1						
Downbound	Domestic	3	000143	477	110.0	35.0	2	10.0	2.0	0.0	9999	2019	N	32		32								
Downbound	Domestic	5	835	1426	195.0	35.0	3	9.0	2.1	0.9	136	2019	N	21										21
Downbound	Domestic	4	000745	2200	195.0	35.0	2	12.0	2.0	0.0	9999	2019	N	6								6		
Downbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	2.0	4.0	9999	2019	N	6				6						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	13.0	1.8	7.2	190	2019	N	2				2						
Downbound	Domestic	4	000764	2151	200.0	35.0	10	13.0	3.0	7.0	170	2019	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	120	2019	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	9999	2019	N	13								13		
Downbound	Domestic	4	705	1552	200.0	35.0	2	9.0	1.5	0.5	223	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	250	2019	N	1								1		
Downbound	Domestic	3	000132	443	110.0	32.0	9	10.3	8.6	0.4	456	2019	N	1		1								
Downbound	Domestic	4	000764	1700	200.0	35.0	2	9.0	1.9	0.1	206	2019	N	3								3		
Downbound	Domestic	4	000764	1539	200.0	35.0	2	9.0	1.7	0.3	225	2019	N	1								1		
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	9999	2019	N	2								2		
Downbound	Domestic	5	1619	3390	297.5	54.0	2	12.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	823	2188	200.0	35.0	8	12.0	1.6	6.4	225	2019	N	2				2						
Downbound	Domestic	4	000764	2406	200.0	35.0	8	13.0	1.6	6.4	120	2019	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	11	12.0	1.5	9.5	208	2019	N	3				3						
Downbound	Domestic	5	759	1578	200.0	35.0	2	9.0	1.9	0.1	164	2019	N	1										1
Downbound	Domestic	5	001754	3390	297.5	54.0	2	12.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000823	2469	200.0	35.0	2	12.0	2.0	0.0	180	2019	N	1								1		
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	2.0	6.0	216	2019	N	5				5						
Downbound	Domestic	4	823	2194	200.0	35.0	10	14.0	1.4	8.6	25	2019	N	1				1						
Downbound	Domestic	4	705	1893	200.0	35.0	9	10.0	1.4	7.6	205	2019	N	2				2						
Downbound	Domestic	4	000745	1705	195.0	35.0	8	10.0	1.6	6.4	139	2019	N	1				1						
Downbound	Domestic	4	000764	1591	200.0	35.0	11	9.0	3.0	8.0	9999	2019	N	1				1						
Downbound	Domestic	4	763	2290	200.0	35.0	2	13.0	1.6	0.4	236	2019	N	2								2		
Downbound	Domestic	4	000823	2880	200.0	35.0	2	12.0	3.0	-1.0	9999	2019	N	3								3		
Downbound	Domestic	3	000133	444	110.0	32.0	9	10.3	8.6	0.4	456	2019	N	1		1								
Downbound	Domestic	4	000764	1956	200.0	35.0	7	9.0	2.0	5.0	196	2019	N	4				4						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.8	6.2	220	2019	N	9				9						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	170	2019	N	1				1						
Downbound	Domestic	4	764	1636	200.0	35.0	9	9.0	1.5	7.5	165	2019	N	1				1						
Downbound	Domestic	4	748	2488	200.0	35.0	2	13.0	1.5	0.5	219	2019	N	6								6		
Downbound	Domestic	4	000764	2532	200.0	35.0	2	13.0	1.5	0.5	120	2019	N	2								2		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	12.0	1.8	0.2	206	2019	N	1								1		
Downbound	Domestic	4	000764	2007	200.0	35.0	3	10.0	3.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.4	0.6	148	2019	N	1								1		
Downbound	Domestic	4	000764	1705	200.0	35.0	2	10.0	1.5	0.5	140	2019	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	216	2019	N	7				7						
Downbound	Domestic	4	823	2500	200.0	35.0	7	12.0	2.0	5.0	181	2019	N	1				1						
Downbound	Domestic	4	764	1611	200.0	35.0	8	9.0	1.7	6.3	225	2019	N	1				1						
Downbound	Domestic	4	823	1643	200.0	35.0	11	12.0	1.5	9.5	9999	2019	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	10	10.0	1.8	8.2	206	2019	N	2				2						
Downbound	Domestic	4	000764	1534	200.0	35.0	2	9.0	1.7	0.3	199	2019	N	3								3		
Downbound	Domestic	3	000382	999999	114.7	34.0	8	9.0	8.0	0.0	420	2019	N	2		2								
Downbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	240	2019	N	9				9						
Downbound	Domestic	4	770	1769	200.0	35.0	9	10.0	1.5	7.5	149	2019	N	2				2						
Downbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	186	2019	N	1				1						
Downbound	Domestic	4	823	2500	200.0	35.0	8	13.0	2.0	6.0	218	2019	N	1				1						
Downbound	Domestic	4	705	1885	200.0	35.0	8	9.0	1.4	6.6	208	2019	N	1				1						
Downbound	Domestic	4	705	1578	200.0	35.0	8	9.0	1.5	6.5	180	2019	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	12.0	1.5	10.5	186	2019	N	1				1						
Downbound	Domestic	4	682	1722	195.0	35.0	9	10.0	1.6	7.4	204	2019	N	1				1						
Downbound	Domestic	4	705	1554	200.0	35.0	2	9.0	1.5	0.5	150	2019	N	1								1		
Downbound	Domestic	4	764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2019	N	1								1		

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	5	766	1485	195.0	35.0	2	8.5	2.0	0.0	133	2019	N	1										1
Downbound	Domestic	4	764	1552	200.0	35.0	2	9.0	1.5	0.5	163	2019	N	1								1		
Downbound	Domestic	4	000823	2410	200.0	35.0	2	14.0	1.5	0.5	190	2019	N	1								1		
Downbound	Domestic	4	764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2019	N	1				1						
Downbound	Domestic	4	705	1572	200.0	35.0	8	9.0	1.5	6.5	223	2019	N	1				1						
Downbound	Domestic	4	000764	1484	200.0	35.0	8	9.0	2.0	6.0	160	2019	N	1				1						
Downbound	Domestic	4	843	1653	200.0	35.0	9	9.0	1.5	7.5	120	2019	N	1				1						
Downbound	Domestic	4	764	2400	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	1				1						
Downbound	Domestic	4	823	2739	200.0	35.0	8	14.0	1.7	6.3	250	2019	N	1				1						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	213	2019	N	2				2						
Downbound	Domestic	4	745	1485	195.0	35.0	8	9.0	1.8	6.2	225	2019	N	1				1						
Downbound	Domestic	4	705	1546	200.0	35.0	9	9.0	1.5	7.5	223	2019	N	1				1						
Downbound	Domestic	5	1419	3000	230.0	54.0	2	10.0	2.0	0.0	170	2019	N	2										2
Downbound	Domestic	4	764	1530	200.0	35.0	2	9.0	1.6	0.4	154	2019	N	2								2		
Downbound	Domestic	4	823	1662	200.0	35.0	2	13.0	1.6	0.4	230	2019	N	1								1		
Downbound	Domestic	4	764	2100	200.0	35.0	9	12.0	1.5	7.5	186	2019	N	2				2						
Downbound	Domestic	4	000823	2604	200.0	35.0	9	14.0	1.7	7.3	256	2019	N	1				1						
Downbound	Domestic	4	000764	1652	200.0	35.0	9	9.0	2.0	7.0	215	2019	N	1				1						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.5	6.5	191	2019	N	1				1						
Downbound	Domestic	4	000823	1635	200.0	35.0	8	9.0	1.5	6.5	175	2019	N	3				3						
Downbound	Domestic	4	000802	1600	195.0	35.0	8	12.0	2.0	6.0	140	2019	N	3				3						
Downbound	Domestic	5	2424	2212	295.0	50.0	7	9.0	2.0	5.0	250	2019	N	2						2				
Downbound	Domestic	4	000823	2000	200.0	35.0	2	12.0	2.0	0.0	100	2019	N	4								4		
Downbound	Domestic	5	001754	3100	297.5	54.0	2	10.3	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.7	0.3	206	2019	N	1								1		
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.6	0.4	206	2019	N	9								9		
Downbound	Domestic	3	000379	999999	114.6	34.0	11	10.5	10.5	0.5	420	2019	N	2		2								
Downbound	Domestic	4	823	2733	200.0	35.0	2	14.0	1.5	0.5	241	2019	N	1								1		
Downbound	Domestic	4	705	1552	200.0	35.0	8	9.0	1.5	6.5	223	2019	N	1				1						
Downbound	Domestic	4	000764	1506	200.0	35.0	9	9.0	1.9	7.1	206	2019	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	9999	2019	N	4				4						
Downbound	Domestic	4	802	2537	195.0	35.0	8	14.0	1.7	6.3	211	2019	N	1				1						
Downbound	Domestic	4	000764	1619	200.0	35.0	8	9.0	1.6	6.4	170	2019	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.7	7.3	165	2019	N	2				2						
Downbound	Domestic	4	802	2110	200.0	35.0	8	12.0	1.8	6.2	234	2019	N	1				1						
Downbound	Domestic	4	764	1635	200.0	35.0	9	9.0	1.6	7.4	225	2019	N	1				1						
Downbound	Domestic	4	000745	2090	195.0	35.0	8	12.0	1.8	6.2	170	2019	N	1				1						
Downbound	Domestic	4	676	1502	195.0	35.0	8	9.0	1.7	6.3	164	2019	N	1				1						
Downbound	Domestic	4	000764	1484	200.0	35.0	8	9.0	1.1	6.9	225	2019	N	1				1						
Downbound	Domestic	5	1819	3100	281.7	54.0	2	9.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000764	1651	200.0	35.0	2	9.0	1.8	0.2	206	2019	N	1								1		
Downbound	Domestic	4	922	1635	200.0	35.0	2	12.0	1.8	0.2	250	2019	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	15.0	3.0	-1.0	9999	2019	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	2.0	6.0	250	2019	N	1				1						
Downbound	Domestic	4	802	2544	195.0	35.0	8	14.0	1.7	6.3	210	2019	N	3				3						
Downbound	Domestic	4	705	1774	200.0	35.0	8	10.0	1.6	6.4	170	2019	N	1				1						
Downbound	Domestic	4	823	2741	200.0	35.0	8	14.0	1.5	6.5	210	2019	N	1				1						
Downbound	Domestic	4	705	1600	200.0	35.0	9	9.0	1.6	7.4	180	2019	N	1				1						
Downbound	Domestic	4	000764	1615	200.0	35.0	11	11.0	1.8	9.2	170	2019	N	1				1						
Downbound	Domestic	4	764	1560	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	1				1						
Downbound	Domestic	4	770	1769	200.0	35.0	8	10.0	1.5	6.5	149	2019	N	1				1						
Downbound	Domestic	5	001754	3390	297.5	54.0	2	11.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000724	1532	200.0	35.0	2	9.0	1.7	0.3	160	2019	N	3								3		
Downbound	Domestic	3	533	999999	140.0	42.0	7	8.6	6.6	0.4	430	2019	N	2		2								
Downbound	Domestic	4	000802	2400	105.0	35.0	2	10.0	2.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.8	6.2	225	2019	N	2				2						
Downbound	Domestic	4	771	1541	200.0	35.0	8	9.0	1.6	6.4	212	2019	N	1				1						
Downbound	Domestic	4	764	2098	200.0	35.0	9	11.0	1.5	7.5	218	2019	N	5				5						
Downbound	Domestic	4	000823	2200	200.0	35.0	8	12.0	2.0	6.0	9999	2019	N	3				3						
Downbound	Domestic	4	764	1956	200.0	35.0	7	9.0	2.0	5.0	130	2019	N	9				9						
Downbound	Domestic	4	000764	999999	200.0	35.0	2	9.0	1.5	0.5	160	2019	N	8								8		
Downbound	Domestic	4	000764	1650	200.0	35.0	11	12.0	1.5	9.5	208	2019	N	1				1						
Downbound	Domestic	4	000764	1615	200.0	35.0	9	10.0	1.8	7.2	170	2019	N	1				1						
Downbound	Domestic	4	764	1608	200.0	35.0	8	9.0	1.5	6.5	225	2019	N	1				1						
Downbound	Domestic	4	000823	2880	200.0	35.0	8	12.0	3.0	5.0	9999	2019	N	2				2						
Downbound	Domestic	4	705	1875	200.0	35.0	2	10.0	1.4	0.6	191	2019	N	2								2		
Downbound	Domestic	4	000802	2406	195.0	35.0	2	10.0	2.0	0.0	9999	2019	N	4								4		
Downbound	Domestic	4	000764	1536	200.0	35.0	2	9.0	1.8	0.2	225	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	10.0	1.7	0.3	190	2019	N	1								1		
Downbound	Domestic	4	823	2194	200.0	35.0	6	8.0	1.4	4.6	25	2019	N	3				3						
Downbound	Domestic	5	1619	4465	297.5	54.0	9	12.0	2.0	7.0	220	2019	N	1						1				
Downbound	Domestic	4	000719	1665	200.0	35.0	8	9.0	2.0	6.0	130	2019	N	1				1						
Downbound	Domestic	4	823	2059	200.0	35.0	9	12.0	1.6	7.4	25	2019	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.8	0.2	220	2019	N	17								17		
Downbound	Domestic	4	764	1559	200.0	35.0	2	9.0	1.5	0.5	170	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	190	2019	N	5				5						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	190	2019	N	9				9						
Downbound	Domestic	4	727	1768	200.0	35.0	8	10.0	1.6	6.4	149	2019	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.5	6.5	215	2019	N	1				1						
Downbound	Domestic	4	000764	2532	200.0	35.0	8	13.0	1.5	6.5	120	2019	N	2				2						
Downbound	Domestic	4	764	1422	200.0	35.0	8	8.0	1.6	6.4	165	2019	N	2				2						
Downbound	Domestic	4	000823	2800	200.0	35.0	7	12.0	2.0	5.0	225	2019	N	1				1						
Downbound	Domestic	4	000764	1568	200.0	35.0	8	9.0	1.6	6.4	204	2019	N	2				2						
Downbound	Domestic	4	000823	1922	200.0	35.0	12	12.0	2.0	10.0	220	2019	N	1				1						
Downbound	Domestic	4	823	2188	200.0	35.0	9	12.0	1.6	7.4	225	2019	N	5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	12	12.0	1.5	10.5	215	2019	N	1				1						
Downbound	Domestic	4	000764	2468	200.0	35.0	9	13.0	1.5	7.5	208	2019	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	6	10.0	1.7	4.3	190	2019	N	1				1						
Downbound	Domestic	4	935	2074	200.0	35.0	2	10.5	1.6	0.4	180	2019	N	1								1		
Downbound	Domestic	5	001754	3665	297.5	54.0	2	12.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000823	2500	200.0	35.0	8	12.0	2.0	6.0	9999	2019	N	6				6						
Downbound	Domestic	4	000823	2739	200.0	35.0	9	14.0	1.6	7.4	140	2019	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	220	2019	N	1				1						
Downbound	Domestic	4	000764	1935	200.0	35.0	9	11.0	1.8	7.2	195	2019	N	1				1						
Downbound	Domestic	4	823	2600	200.0	35.0	9	14.0	1.7	7.3	231	2019	N	1				1						
Downbound	Domestic	5	1803	2500	295.0	52.0	9	9.0	2.5	6.5	340	2019	N	3						3				
Downbound	Domestic	4	600	1650	200.0	35.0	2	9.0	1.5	0.5	208	2019	N	1								1		
Downbound	Domestic	4	764	1864	200.0	35.0	8	10.0	1.6	6.4	224	2019	N	1				1						
Downbound	Domestic	4	000706	1557	200.0	35.0	8	9.0	1.6	6.4	205	2019	N	1				1						
Downbound	Domestic	3	000294	999999	114.0	35.0	11	11.0	11.0	0.0	420	2019	N	14		14								
Downbound	Domestic	5	1766	3164	290.0	54.0	2	9.0	1.8	0.2	180	2019	N	1										1
Downbound	Domestic	3	000102	342	110.0	32.0	9	10.3	8.6	0.4	400	2019	N	1		1								
Downbound	Domestic	4	000764	1705	200.0	35.0	8	10.0	1.5	6.5	140	2019	N	3				3						
Downbound	Domestic	4	000764	1705	200.0	35.0	9	10.0	1.5	7.5	140	2019	N	3				3						
Downbound	Domestic	4	000764	2500	200.0	35.0	7	10.0	3.0	4.0	9999	2019	N	7				7						
Downbound	Domestic	4	764	1651	200.0	35.0	8	9.0	1.6	6.4	206	2019	N	2				2						
Downbound	Domestic	4	764	1536	200.0	35.0	8	9.0	1.7	6.3	165	2019	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	219	2019	N	4				4						
Downbound	Domestic	4	682	1722	195.0	35.0	8	10.0	1.6	6.4	204	2019	N	6				6						
Downbound	Domestic	4	735	1422	200.0	35.0	8	8.0	2.0	6.0	165	2019	N	2				2						
Downbound	Domestic	4	000764	1534	200.0	35.0	9	9.0	1.7	7.3	199	2019	N	2				2						
Downbound	Domestic	4	000705	1648	200.0	35.0	11	12.0	1.5	9.5	186	2019	N	1				1						
Downbound	Domestic	4	000764	1633	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	2				2						
Downbound	Domestic	4	000764	1650	200.0	35.0	10	11.0	1.5	8.5	208	2019	N	1				1						
Downbound	Domestic	4	764	1956	200.0	35.0	2	9.0	2.0	0.0	130	2019	N	2								2		
Downbound	Domestic	3	634	999999	145.0	48.0	9	9.0	8.6	0.4	426	2019	N	1		1								

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	745	1498	195.0	35.0	2	9.0	1.7	0.3	206	2019	N	3								3		
Downbound	Domestic	4	000764	1636	200.0	35.0	9	9.0	1.5	7.5	155	2019	N	1				1						
Downbound	Domestic	4	000705	2728	200.0	35.0	9	14.0	1.6	7.4	256	2019	N	1				1						
Downbound	Domestic	4	802	2544	195.0	35.0	9	14.0	1.7	7.3	210	2019	N	4				4						
Downbound	Domestic	4	823	2500	200.0	35.0	8	12.0	2.0	6.0	250	2019	N	1				1						
Downbound	Domestic	4	764	1518	200.0	35.0	8	9.0	1.7	6.3	170	2019	N	2				2						
Downbound	Domestic	5	1092	2100	175.0	54.0	5	8.5	1.3	3.7	180	2019	N	0						0				
Downbound	Domestic	5	3084	2874	298.0	54.0	4	8.6	4.0	0.0	260	2019	N	2										2
Downbound	Domestic	5	800	1371	195.0	35.0	2	8.6	2.0	0.0	182	2019	N	2										2
Downbound	Domestic	4	000745	2100	195.0	35.0	2	10.0	3.0	-1.0	9999	2019	N	1								1		
Downbound	Domestic	4	000764	1750	200.0	35.0	2	10.0	1.5	0.5	191	2019	N	1								1		
Downbound	Domestic	3	266	999999	112.4	38.0	6	8.0	6.0	0.0	400	2019	N	2		2								
Downbound	Domestic	4	764	1629	200.0	35.0	9	9.0	1.5	7.5	225	2019	N	1				1						
Downbound	Domestic	4	000745	1865	200.0	35.0	8	10.0	1.5	6.5	139	2019	N	1				1						
Downbound	Domestic	4	687	1468	195.0	35.0	8	9.0	1.9	6.1	173	2019	N	1				1						
Downbound	Domestic	4	764	1875	200.0	35.0	8	10.0	1.7	6.3	200	2019	N	1				1						
Downbound	Domestic	5	1766	3164	290.0	54.0	8	9.0	1.8	6.2	180	2019	N	2						2				
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	255	2019	N	1				1						
Downbound	Domestic	4	000823	1536	200.0	35.0	8	9.0	1.7	6.3	140	2019	N	1				1						
Downbound	Domestic	5	002482	2202	293.0	50.0	8	9.0	2.0	6.0	250	2019	N	2						2				
Downbound	Domestic	4	000745	1497	195.0	35.0	9	9.0	1.6	7.4	139	2019	N	1				1						
Downbound	Domestic	3	42	999999	50.6	20.5	7	7.0	7.0	0.0	240	2019	N	45		45								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	11.0	1.7	0.3	160	2019	N	1								1		
Downbound	Domestic	4	000764	2085	200.0	35.0	2	13.0	1.5	0.5	240	2019	N	1								1		
Downbound	Domestic	4	000745	2331	195.0	35.0	8	12.0	1.6	6.4	220	2019	N	6				6						
Downbound	Domestic	4	745	1916	195.0	35.0	8	11.0	1.5	6.5	149	2019	N	1				1						
Downbound	Domestic	4	687	1724	195.0	35.0	9	10.0	1.5	7.5	206	2019	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	9	9.0	1.6	7.4	206	2019	N	1				1						
Downbound	Domestic	4	000823	2058	200.0	35.0	11	12.0	2.0	9.0	9999	2019	N	1				1						
Downbound	Domestic	4	823	2077	200.0	35.0	9	11.0	1.5	7.5	215	2019	N	1				1						
Downbound	Domestic	5	000825	1485	195.0	35.0	2	9.0	1.8	0.2	194	2019	N	5										5
Downbound	Domestic	5	814	2442	148.0	54.0	2	9.0	2.0	0.0	180	2019	N	2										2
Downbound	Domestic	5	1619	3300	297.0	54.0	2	9.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	3	298	999999	92.0	30.0	7	7.5	7.0	0.0	395	2019	N	4		4								
Downbound	Domestic	4	764	1648	200.0	35.0	10	11.0	1.5	8.5	208	2019	N	1				1						
Downbound	Domestic	4	000823	1536	200.0	35.0	9	9.0	1.7	7.3	140	2019	N	5				5						
Downbound	Domestic	4	000687	1728	195.0	35.0	8	10.0	1.5	6.5	206	2019	N	1				1						
Downbound	Domestic	4	000764	1750	200.0	35.0	9	10.0	1.5	7.5	191	2019	N	1				1						
Downbound	Domestic	5	1619	3300	297.0	54.0	8	9.0	2.0	6.0	180	2019	N	1						1				
Downbound	Domestic	4	000764	2100	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	2				2						
Downbound	Domestic	3	000143	0	110.0	35.0	9	9.0	9.0	0.0	34	2019	N	13		13								
Downbound	Domestic	4	000823	2739	200.0	35.0	2	14.0	1.6	0.4	140	2019	N	15								15		
Downbound	Domestic	4	764	1639	200.0	35.0	2	9.0	1.6	0.4	225	2019	N	1								1		
Downbound	Domestic	4	000764	1600	200.0	35.0	2	9.0	1.6	0.4	170	2019	N	3								3		
Downbound	Domestic	4	000764	2292	200.0	35.0	9	12.0	2.0	7.0	250	2019	N	3				3						
Downbound	Domestic	4	000745	2235	200.0	35.0	8	15.0	3.0	5.0	9999	2019	N	1				1						
Downbound	Domestic	4	000782	1990	200.0	35.0	7	9.0	1.5	5.5	170	2019	N	1				1						
Downbound	Domestic	5	1754	3390	297.5	54.0	10	12.0	2.0	8.0	180	2019	N	1						1				
Downbound	Domestic	5	1754	3665	297.5	54.0	9	12.0	2.0	7.0	180	2019	N	1						1				
Downbound	Domestic	4	764	1542	200.0	35.0	9	9.0	1.6	7.4	160	2019	N	1				1						
Downbound	Domestic	4	000706	1569	200.0	35.0	9	9.0	1.6	7.4	205	2019	N	1				1						
Downbound	Domestic	4	764	2077	200.0	35.0	9	10.0	1.5	7.5	215	2019	N	1				1						
Downbound	Domestic	4	823	2579	200.0	35.0	9	14.0	1.7	7.3	231	2019	N	1				1						
Downbound	Domestic	4	764	1648	200.0	35.0	12	13.0	1.5	10.5	208	2019	N	1				1						
Downbound	Domestic	5	2688	2600	298.0	54.0	8	8.6	4.0	4.0	260	2019	N	2						2				
Downbound	Domestic	4	000823	2469	200.0	35.0	3	10.0	3.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	220	2019	N	4				4						
Downbound	Domestic	4	000764	1600	200.0	35.0	9	9.0	1.6	7.4	130	2019	N	6				6						
Downbound	Domestic	4	000764	1854	200.0	35.0	9	10.0	1.6	7.4	130	2019	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	9999	2019	N	3				3						
Downbound	Domestic	4	000764	2190	200.0	35.0	8	12.0	2.0	6.0	160	2019	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	13	13.0	2.0	11.0	208	2019	N	1				1						
Downbound	Domestic	4	000764	1648	200.0	35.0	12	13.0	2.0	10.0	208	2019	N	1				1						
Downbound	Domestic	4	000764	1534	200.0	35.0	8	9.0	1.7	6.3	209	2019	N	1				1						
Downbound	Domestic	4	000823	2000	200.0	35.0	8	12.0	2.0	6.0	100	2019	N	3				3						
Downbound	Domestic	4	764	2500	200.0	35.0	2	9.0	1.6	0.4	225	2019	N	1								1		
Downbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	190	2019	N	2								2		
Downbound	Domestic	4	764	1629	200.0	35.0	2	9.0	1.5	0.5	225	2019	N	1								1		
Downbound	Domestic	4	000823	2058	200.0	35.0	7	9.0	2.0	5.0	186	2019	N	1				1						
Downbound	Domestic	4	823	2500	200.0	35.0	8	13.0	2.0	6.0	250	2019	N	1				1						
Downbound	Domestic	4	000764	2077	200.0	35.0	9	12.0	1.5	7.5	215	2019	N	4				4						
Downbound	Domestic	4	000764	2060	200.0	35.0	9	11.0	1.8	7.2	195	2019	N	1				1						
Downbound	Domestic	4	000764	1850	200.0	35.0	8	10.0	1.5	6.5	191	2019	N	1				1						
Downbound	Domestic	4	764	1542	200.0	35.0	2	9.0	1.6	0.4	160	2019	N	2								2		
Downbound	Domestic	4	823	2748	200.0	35.0	2	14.0	1.5	0.5	215	2019	N	12								12		
Downbound	Domestic	4	764	2077	200.0	35.0	2	12.0	1.5	0.5	215	2019	N	1								1		
Downbound	Domestic	4	706	1578	200.0	35.0	8	9.0	1.5	6.5	205	2019	N	3				3						
Downbound	Domestic	4	705	1885	200.0	35.0	8	10.0	1.4	6.6	208	2019	N	2				2						
Downbound	Domestic	4	000764	1677	200.0	35.0	8	9.0	1.4	6.6	165	2019	N	9				9						
Downbound	Domestic	4	687	1724	195.0	35.0	8	10.0	1.5	6.5	206	2019	N	5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	11	12.0	1.5	9.5	215	2019	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	8	11.0	1.7	6.3	223	2019	N	1				1						
Downbound	Domestic	4	823	1750	200.0	35.0	9	10.0	1.6	7.4	165	2019	N	3				3						
Downbound	Domestic	4	834	1701	195.0	35.0	8	10.0	1.1	6.9	210	2019	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.8	6.2	206	2019	N	1				1						
Downbound	Domestic	5	2840	2800	298.0	54.0	9	8.6	4.0	5.0	260	2019	N	6						6				
Downbound	Domestic	5	3084	2874	298.0	54.0	8	8.6	4.0	4.0	260	2019	N	2						2				
Downbound	Domestic	5	773	1489	195.1	35.1	2	9.0	1.8	0.2	166	2019	N	3										3
Downbound	Domestic	4	000745	2235	200.0	35.0	2	15.0	3.0	-1.0	9999	2019	N	1								1		
Downbound	Domestic	4	856	1848	200.0	35.0	2	10.0	1.6	0.4	210	2019	N	1								1		
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	220	2019	N	1								1		
Downbound	Domestic	3	000303	64	90.0	34.0	10	9.0	7.6	2.4	490	2019	N	1		1								
Downbound	Domestic	4	000705	1544	200.0	35.0	8	9.0	1.5	6.5	135	2019	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	3.0	4.0	9999	2019	N	6				6						
Downbound	Domestic	4	000764	1648	200.0	35.0	11	12.0	2.0	9.0	208	2019	N	1				1						
Downbound	Domestic	4	745	1915	195.0	35.0	8	11.0	1.7	6.3	224	2019	N	6				6						
Downbound	Domestic	4	000705	2532	200.0	35.0	9	13.0	1.5	7.5	120	2019	N	1				1						
Downbound	Domestic	5	2380	2500	300.0	50.0	9	9.0	2.5	6.5	220	2019	N	1						1				
Downbound	Domestic	4	770	1769	200.0	35.0	2	10.0	1.5	0.5	149	2019	N	2								2		
Downbound	Domestic	5	1755	4211	297.7	54.0	2	11.0	1.5	0.5	200	2019	N	1										1
Downbound	Domestic	4	706	1575	200.0	35.0	2	9.0	1.6	0.4	205	2019	N	1								1		
Downbound	Domestic	4	000764	1551	200.0	35.0	9	9.0	1.6	7.4	225	2019	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	8	10.0	1.5	6.5	206	2019	N	6				6						
Downbound	Domestic	4	764	1646	200.0	35.0	8	9.0	1.6	6.4	226	2019	N	2				2						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	219	2019	N	2				2						
Downbound	Domestic	4	000764	1935	200.0	35.0	8	11.0	1.8	6.2	195	2019	N	2				2						
Downbound	Domestic	4	000764	2077	200.0	35.0	10	12.0	1.4	8.6	215	2019	N	1				1						
Downbound	Domestic	4	000764	1857	200.0	35.0	8	10.0	1.5	6.5	160	2019	N	1				1						
Downbound	Domestic	5	001754	5262	297.5	54.0	2	12.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	5	001619	4668	297.6	54.0	9	9.0	1.5	7.5	190	2019	N	2						2				
Downbound	Domestic	4	000764	2090	200.0	35.0	2	10.0	1.8	0.2	170	2019	N	1								1		
Downbound	Domestic	4	823	2059	200.0	35.0	6	8.0	1.6	4.4	25	2019	N	1				1						
Downbound	Domestic	4	764	1548	200.0	35.0	8	9.0	1.7	6.3	212	2019	N	1				1						
Downbound	Domestic	4	764	1665	200.0	35.0	8	9.0	1.4	6.6	155	2019	N	4				4						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	12.0	2.0	6.0	165	2019	N	3				3						
Downbound	Domestic	4	727	1768	200.0	35.0	9	10.0	1.6	7.4	149	2019	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

															0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																	Loaded				Unloaded			
																	Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	000745	1504	200.0	35.0	8	9.0	1.9	6.1	206	2019	N	1				1						
Downbound	Domestic	4	000745	2331	195.0	35.0	2	12.0	1.6	0.4	220	2019	N	15								15		
Downbound	Domestic	4	000764	2488	200.0	35.0	2	12.0	1.6	0.4	9999	2019	N	1								1		
Downbound	Domestic	3	634	999999	145.0	48.0	9	10.0	9.0	0.0	426	2019	N	2		2								
Downbound	Domestic	4	823	1627	200.0	35.0	2	12.0	1.8	0.2	230	2019	N	1								1		
Downbound	Domestic	4	000764	1636	200.0	35.0	2	9.0	1.7	0.3	199	2019	N	2								2		
Downbound	Domestic	4	823	2600	200.0	35.0	2	14.0	1.7	0.3	231	2019	N	1								1		
Downbound	Domestic	4	823	1500	200.0	35.0	9	9.0	2.0	7.0	140	2019	N	5				5						
Downbound	Domestic	5	1619	3390	297.5	54.0	11	12.0	2.0	9.0	180	2019	N	1						1				
Downbound	Domestic	4	000764	1648	200.0	35.0	13	9.0	2.0	11.0	9999	2019	N	1				1						
Downbound	Domestic	4	000823	2880	200.0	35.0	7	12.0	2.0	5.0	9999	2019	N	7				7						
Downbound	Domestic	4	000823	2100	200.0	35.0	9	12.0	2.0	7.0	165	2019	N	4				4						
Downbound	Domestic	4	000745	2100	195.0	35.0	7	10.0	3.0	4.0	9999	2019	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	218	2019	N	12								12		
Downbound	Domestic	5	2688	2600	298.0	54.0	4	8.6	4.0	0.0	260	2019	N	1										1
Downbound	Domestic	5	1891	3100	281.7	54.0	2	9.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	3	000999	0	40.0	28.0	6	6.0	6.0	0.0	999	2019	N	1		1								
Downbound	Domestic	4	000764	1854	200.0	35.0	2	10.0	1.6	0.4	196	2019	N	1								1		
Downbound	Domestic	4	000700	2187	200.0	35.0	2	12.0	1.7	0.3	250	2019	N	1								1		
Downbound	Domestic	4	802	2739	195.0	35.0	2	14.0	1.6	0.4	250	2019	N	1								1		
Downbound	Domestic	3	000441	999999	100.0	34.0	11	10.5	10.5	0.5	420	2019	N	2		2								
Downbound	Domestic	4	000687	1490	195.0	35.0	2	9.0	1.8	0.2	205	2019	N	1								1		
Downbound	Domestic	4	748	2488	200.0	35.0	8	13.0	1.5	6.5	219	2019	N	7				7						
Downbound	Domestic	4	000764	2408	200.0	35.0	8	13.0	1.6	6.4	220	2019	N	3				3						
Downbound	Domestic	4	000724	1532	200.0	35.0	9	9.0	1.7	7.3	160	2019	N	15				15						
Downbound	Domestic	4	000764	2532	200.0	35.0	9	13.0	1.5	7.5	120	2019	N	7				7						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	205	2019	N	9				9						
Downbound	Domestic	5	001754	6100	297.5	54.0	7	12.0	2.0	5.0	180	2019	N	1						1				
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	9999	2019	N	1				1						
Downbound	Domestic	5	1092	2100	175.0	54.0	8	8.5	1.3	6.7	180	2019	N	1						1				
Downbound	Domestic	3	000235	999999	114.0	35.0	11	11.0	11.0	0.0	420	2019	N	19		19								
Downbound	Domestic	5	001857	2500	298.0	53.0	2	9.0	2.0	0.0	220	2019	N	1										1
Downbound	Domestic	4	764	1617	200.0	35.0	2	9.0	1.6	0.4	225	2019	N	1								1		
Downbound	Domestic	4	000745	2401	200.0	35.0	8	12.0	1.5	6.5	220	2019	N	4				4						
Downbound	Domestic	4	000764	1705	195.0	35.0	8	10.0	1.5	6.5	140	2019	N	1				1						
Downbound	Domestic	4	000764	2400	200.0	35.0	7	10.0	2.5	4.5	9999	2019	N	2				2						
Downbound	Domestic	4	764	2200	200.0	35.0	6	8.0	2.0	4.0	165	2019	N	1				1						
Downbound	Domestic	4	823	2733	200.0	35.0	9	14.0	1.6	7.4	211	2019	N	2				2						
Downbound	Domestic	4	000764	1506	200.0	35.0	11	11.0	1.8	9.2	206	2019	N	2				2						
Downbound	Domestic	4	823	2345	200.0	35.0	8	12.0	1.8	6.2	223	2019	N	1				1						
Downbound	Domestic	5	001321	3200	280.4	54.0	2	9.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000764	1506	200.0	35.0	2	9.0	1.9	0.1	206	2019	N	2								2		
Downbound	Domestic	3	216	999999	100.0	30.0	7	7.5	7.0	0.0	400	2019	N	2		2								
Downbound	Domestic	4	764	1990	200.0	35.0	9	11.0	4.0	5.0	170	2019	N	4				4						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	140	2019	N	7				7						
Downbound	Domestic	4	823	2739	200.0	35.0	7	12.0	1.6	5.4	250	2019	N	2				2						
Downbound	Domestic	4	834	1701	195.0	35.0	9	10.0	1.7	7.3	210	2019	N	1				1						
Downbound	Domestic	4	960	2077	195.0	35.0	9	12.0	1.7	7.3	215	2019	N	1				1						
Downbound	Domestic	4	000764	2500	200.0	35.0	6	9.0	1.7	4.3	206	2019	N	1				1						
Downbound	Domestic	4	823	2310	200.0	35.0	9	12.0	1.5	7.5	225	2019	N	2				2						
Downbound	Domestic	4	823	1634	200.0	35.0	8	9.0	1.5	6.5	175	2019	N	1				1						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.5	6.5	160	2019	N	2				2						
Downbound	Domestic	4	000823	2300	200.0	35.0	9	13.0	1.6	7.4	165	2019	N	5				5						
Downbound	Domestic	4	764	1611	200.0	35.0	9	9.0	1.7	7.3	225	2019	N	4				4						
Downbound	Domestic	4	000823	2741	200.0	35.0	8	14.0	1.5	6.5	230	2019	N	2				2						
Downbound	Domestic	4	764	2187	200.0	35.0	2	12.0	1.7	0.3	190	2019	N	1								1		
Downbound	Domestic	4	000823	2741	200.0	35.0	2	14.0	1.5	0.5	230	2019	N	1								1		
Downbound	Domestic	4	708	2125	195.0	35.0	8	13.0	1.7	6.3	218	2019	N	3				3						
Downbound	Domestic	4	000745	2200	195.0	35.0	8	12.0	2.0	6.0	9999	2019	N	7				7						
Downbound	Domestic	4	000823	1638	200.0	35.0	8	9.0	1.5	6.5	175	2019	N	1				1						
Downbound	Domestic	4	000764	1739	200.0	35.0	9	10.0	1.7	7.3	130	2019	N	1				1						
Downbound	Domestic	4	000823	1600	195.0	35.0	8	12.0	2.0	6.0	140	2019	N	1				1						
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	2.0	0.0	130	2019	N	1								1		
Downbound	Domestic	4	000823	2469	200.0	35.0	2	13.0	2.0	0.0	190	2019	N	1								1		
Downbound	Domestic	4	764	1636	200.0	35.0	8	9.0	1.5	6.5	165	2019	N	8				8						
Downbound	Domestic	4	000764	2085	200.0	35.0	10	13.0	1.5	8.5	9999	2019	N	1				1						
Downbound	Domestic	4	856	1848	200.0	35.0	8	10.0	1.6	6.4	210	2019	N	1				1						
Downbound	Domestic	4	578	1531	195.0	35.0	9	9.0	1.6	7.4	140	2019	N	2				2						
Downbound	Domestic	4	764	1552	200.0	35.0	8	9.0	1.5	6.5	163	2019	N	3				3						
Downbound	Domestic	4	000764	1700	200.0	35.0	8	9.0	1.9	6.1	206	2019	N	3				3						
Downbound	Domestic	4	000764	2468	200.0	35.0	8	12.0	1.5	6.5	208	2019	N	1				1						
Downbound	Domestic	4	000764	2090	200.0	35.0	9	12.0	1.8	7.2	170	2019	N	3				3						
Downbound	Domestic	4	000764	1536	200.0	35.0	8	9.0	1.8	6.2	225	2019	N	3				3						
Downbound	Domestic	4	000745	2235	195.0	35.0	2	12.0	2.0	0.0	216	2019	N	15								15		
Downbound	Domestic	4	000745	2331	195.0	35.0	2	13.0	1.6	0.4	220	2019	N	1								1		
Downbound	Domestic	5	001754	4444	297.5	54.0	2	11.0	2.0	0.0	200	2019	N	1										1
Downbound	Domestic	4	764	1610	200.0	35.0	2	9.0	1.5	0.5	165	2019	N	1								1		
Downbound	Domestic	4	000764	1800	200.0	35.0	7	9.0	1.4	5.6	155	2019	N	1				1						
Downbound	Domestic	4	705	1650	200.0	35.0	8	9.0	1.5	6.5	208	2019	N	2				2						
Downbound	Domestic	4	823	2500	200.0	35.0	8	12.0	2.0	6.0	218	2019	N	1				1						
Downbound	Domestic	4	705	1672	200.0	35.0	8	9.0	1.4	6.6	120	2019	N	1				1						
Downbound	Domestic	4	000764	1636	200.0	35.0	8	9.0	1.5	6.5	155	2019	N	1				1						
Downbound	Domestic	4	000764	1541	200.0	35.0	8	9.0	1.6	6.4	143	2019	N	4				4						
Downbound	Domestic	4	000764	2131	200.0	35.0	9	13.0	1.9	7.1	206	2019	N	4				4						
Downbound	Domestic	4	856	1856	200.0	35.0	2	10.0	1.6	0.4	210	2019	N	3								3		
Downbound	Domestic	5	1660	3400	297.6	54.1	2	9.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000764	1506	200.0	35.0	2	12.0	1.8	0.2	206	2019	N	1								1		
Downbound	Domestic	4	823	2743	200.0	35.0	9	14.0	1.5	7.5	241	2019	N	5				5						
Downbound	Domestic	4	000764	2077	200.0	35.0	2	12.0	1.4	0.6	215	2019	N	2								2		
Downbound	Domestic	4	000764	1538	200.0	35.0	9	9.0	1.7	7.3	9999	2019	N	1				1						
Downbound	Domestic	4	000823	1600	200.0	35.0	9	9.0	1.6	7.4	165	2019	N	1				1						
Downbound	Domestic	4	772	2415	200.0	35.0	8	13.0	1.5	6.5	130	2019	N	1				1						
Downbound	Domestic	4	687	1723	195.0	35.0	9	10.0	1.5	7.5	206	2019	N	1				1						
Downbound	Domestic	4	000745	1507	195.0	35.0	9	9.0	1.6	7.4	139	2019	N	1				1						
Downbound	Domestic	5	2688	2800	298.0	54.0	9	8.6	4.0	5.0	260	2019	N	2						2				
Downbound	Domestic	4	764	1668	200.0	35.0	2	9.0	1.5	0.5	160	2019	N	2								2		
Downbound	Domestic	5	773	1489	195.0	35.0	2	9.0	1.3	0.7	160	2019	N	3										3
Downbound	Domestic	4	000764	1590	200.0	35.0	3	9.0	3.0	0.0	9999	2019	N	1								1		
Downbound	Domestic	5	1619	4298	297.5	54.0	2	12.0	2.0	0.0	220	2019	N	1										1
Downbound	Domestic	5	1922	4144	300.0	54.0	1	12.0	1.0	0.0	165	2019	N	1										1
Downbound	Domestic	4	000823	2881	200.0	35.0	8	13.0	3.0	5.0	9999	2019	N	1				1						
Downbound	Domestic	4	000823	2741	200.0	35.0	9	14.0	1.5	7.5	230	2019	N	3				3						
Downbound	Domestic	4	764	1637	200.0	35.0	8	9.0	1.5	6.5	155	2019	N	1				1						
Downbound	Domestic	4	764	1645	200.0	35.0	8	9.0	1.9	6.1	220	2019	N	1				1						
Downbound	Domestic	4	688	1542	200.0	35.0	9	9.0	1.5	7.5	210	2019	N	1				1						
Downbound	Domestic	4	000724	1532	200.0	35.0	8	9.0	1.7	6.3	160	2019	N	1				1						
Downbound	Domestic	4	764	1600	200.0	35.0	8	9.0	1.6	6.4	165	2019	N	1				1						
Downbound	Domestic	4	000823	2469	200.0	35.0	8	13.0	2.0	6.0	225	2019	N	1				1						
Downbound	Domestic	4	000764	1728	200.0	35.0	8	9.0	1.6	6.4	206	2019	N	1				1						
Downbound	Domestic	3	349	999999	140.0	42.0	9	9.0	8.6	0.4	426	2019	N	5		5								
Downbound	Domestic	4	000764	2292	200.0	35.0	2	12.0	1.6	0.4	9999	2019	N	17								17		
Downbound	Domestic	4	823	2500	200.0	35.0	2	12.0	2.0	0.0	218	2019	N	4								4		
Downbound	Domestic	4	705	1600	200.0	35.0	2	9.0	1.6	0.4	170	2019	N	1								1		
Downbound	Domestic	4	000764	2468	200.0	35.0	8	13.0	1.5	6.5	208	2019	N	2				2						
Downbound	Domestic	4	000764	2200	200.0	35.0	9	12.0	2.0	7.0	214	2019	N	4				4						
Downbound	Domestic	4	745	1498	195.0	35.0	7	9.0	1.7	5.3	206	2019	N	1				1						

An Unloaded Barge is considered unloaded with a cargo draft 2 ft or less.

OK

Total Trips = 84400

														0	14869	28129	19919	1193	3092	2475	10783	2722	1218
																Loaded				Unloaded			
																Hopper		Tanker		Hopper		Tanker	
DIRECTION	TTYPE	VTYPE	REG TONS	CAP TONS	OVER LENGTH	OVER BREADTH	ACTUAL DRAFT	LOAD DRAFT	LIGHT DRAFT	DRAFT DUE TO CARGO	H F POINT	YEAR	CONTAINERIZED	TRIPS	Self-Propelled	Towboat	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound	Upbound	Downbound
Downbound	Domestic	4	802	2100	195.0	35.0	8	12.0	2.0	6.0	217	2019	N	2				2						
Downbound	Domestic	4	000823	2469	200.0	35.0	9	13.0	2.0	7.0	218	2019	N	1				1						
Downbound	Domestic	4	802	2107	195.0	35.0	8	12.0	1.6	6.4	214	2019	N	1				1						
Downbound	Domestic	5	001754	3665	297.5	54.0	2	11.0	2.0	0.0	180	2019	N	1										1
Downbound	Domestic	4	000764	2292	200.0	35.0	2	11.0	2.0	0.0	220	2019	N	1							1			
Downbound	Domestic	5	835	1451	195.0	35.0	2	9.0	1.1	0.9	136	2019	N	2										2
Downbound	Domestic	4	000745	2292	195.0	35.0	2	15.0	3.0	-1.0	9999	2019	N	1							1			
Downbound	Domestic	4	687	1468	195.0	35.0	2	9.0	1.9	0.1	173	2019	N	2							2			
Downbound	Domestic	5	705	1400	195.0	35.0	2	9.0	2.0	0.0	168	2019	N	2										2
Downbound	Domestic	4	823	2077	200.0	35.0	2	12.0	1.5	0.5	215	2019	N	1							1			
Downbound	Domestic	4	000764	1650	200.0	35.0	2	13.0	1.5	0.5	208	2019	N	1							1			
Downbound	Domestic	3	609	999999	145.0	48.0	9	9.8	9.0	0.0	450	2019	N	3		3								
Downbound	Domestic	4	000764	1652	200.0	35.0	11	12.0	3.0	8.0	215	2019	N	1				1						
Downbound	Domestic	4	000784	1800	200.0	35.0	7	9.0	2.0	5.0	130	2019	N	5				5						
Downbound	Domestic	4	000823	1750	200.0	35.0	8	10.0	1.7	6.3	140	2019	N	4				4						
Downbound	Domestic	4	000802	2110	200.0	35.0	9	12.0	1.8	7.2	210	2019	N	1				1						
Downbound	Domestic	5	2917	2400	295.0	52.5	9	9.0	2.0	7.0	320	2019	N	1					1					
Downbound	Domestic	3	124	999999	75.7	30.0	8	8.0	7.5	0.5	300	2019	N	2		2								
Downbound	Domestic	4	764	2077	200.0	35.0	2	10.0	1.5	0.5	215	2019	N	1							1			
Downbound	Domestic	4	000764	2235	195.0	35.0	2	15.0	3.0	-1.0	9999	2019	N	1							1			
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	140	2019	N	7				7						
Downbound	Domestic	4	000764	2292	200.0	35.0	8	12.0	1.6	6.4	220	2019	N	1				1						
Downbound	Domestic	4	000764	2151	200.0	35.0	9	12.0	1.8	7.2	195	2019	N	6				6						
Downbound	Domestic	4	745	1915	195.0	35.0	9	11.0	1.7	7.3	224	2019	N	1				1						
Downbound	Domestic	4	764	1800	200.0	35.0	10	12.0	1.8	8.2	160	2019	N	4				4						
Downbound	Domestic	4	000823	2161	200.0	35.0	9	12.0	1.8	7.2	219	2019	N	3				3						
Downbound	Domestic	4	000764	1862	200.0	35.0	8	10.0	1.6	6.4	191	2019	N	1				1						
Downbound	Domestic	3	000143	999999	114.0	35.0	11	11.0	11.0	0.0	420	2019	N	34		34								
Downbound	Domestic	4	763	2290	195.0	35.0	2	13.0	1.7	0.3	235	2019	N	3							3			
Downbound	Domestic	4	823	2741	200.0	35.0	9	14.0	1.5	7.5	210	2019	N	9				9						
Downbound	Domestic	4	000700	2187	200.0	35.0	8	12.0	1.7	6.3	250	2019	N	5				5						
Downbound	Domestic	4	705	1554	200.0	35.0	8	9.0	1.5	6.5	150	2019	N	2				2						
Downbound	Domestic	4	000764	1551	200.0	35.0	8	9.0	1.6	6.4	225	2019	N	7				7						
Downbound	Domestic	4	764	1657	200.0	35.0	8	9.0	1.5	6.5	160	2019	N	1				1						
Downbound	Domestic	4	000764	1869	200.0	35.0	8	10.0	1.7	6.3	191	2019	N	2				2						
Downbound	Domestic	4	000764	2292	200.0	35.0	7	10.0	2.0	5.0	9999	2019	N	1				1						
Downbound	Domestic	4	000764	2300	200.0	35.0	9	13.0	1.6	7.4	165	2019	N	5				5						
Downbound	Domestic	4	000823	2469	200.0	35.0	7	10.0	2.0	5.0	9999	2019	N	3				3						
Downbound	Domestic	4	000802	2400	105.0	35.0	8	10.0	2.0	6.0	9999	2019	N	1				1						
Downbound	Domestic	4	000745	2235	195.0	35.0	8	12.0	1.6	6.4	220	2019	N	6				6						
Downbound	Domestic	4	000823	2300	200.0	35.0	10	14.0	1.5	8.5	165	2019	N	1				1						
Downbound	Domestic	4	745	1914	195.0	35.0	9	11.0	1.7	7.3	223	2019	N	1				1						
Downbound	Domestic	4	000823	1750	200.0	35.0	9	10.0	1.7	7.3	210	2019	N	2				2						
Downbound	Domestic	4	000764	1600	200.0	35.0	8	9.0	1.6	6.4	170	2019	N	2				2						
Downbound	Domestic	4	000764	1862	200.0	35.0	9	10.0	1.5	7.5	191	2019	N	1				1						
Downbound	Domestic	4	000764	1651	200.0	35.0	8	9.0	1.6	6.4	9999	2019	N	2				2						
Downbound	Domestic	4	823	2310	200.0	35.0	8	12.0	1.5	6.5	225	2019	N	2				2						
Downbound	Domestic	4	764	1652	200.0	35.0	8	9.0	1.5	6.5	217	2019	N	1				1						
Downbound	Domestic	5	2476	2500	310.0	50.0	9	9.0	2.5	6.5	230	2019	N	1					1					
Downbound	Domestic	4	000745	1800	200.0	35.0	9	10.0	3.0	6.0	9999	2019	N	1				1						
Downbound	Domestic	5	1619	4465	297.5	54.0	2	12.0	2.0	0.0	220	2019	N	1										1
Downbound	Domestic	4	000823	1600	195.0	35.0	2	12.0	2.0	0.0	140	2019	N	2							2			
Downbound	Domestic	4	000764	1619	200.0	35.0	2	9.0	1.6	0.4	170	2019	N	3							3			
Downbound	Domestic	3	258	999999	120.0	35.0	7	7.5	7.0	0.0	400	2019	N	3		3								
Downbound	Domestic	5	001754	3665	297.5	54.0	9	11.0	2.0	7.0	180	2019	N	1					1					
Downbound	Domestic	4	000823	2792	200.0	35.0	7	12.0	1.7	5.3	250	2019	N	3				3						
Downbound	Domestic	5	1724	3300	297.6	54.1	9	10.0	2.0	7.0	180	2019	N	2					2					

Appendix C

Vessel Speed Summary

HNTB	Made by:	NAM	Date:	04/13/22	Job Number	63136
	Checked by	WJS	Date:	05/16/22		
The HNTB Companies	:kchecked by:	NAM	Date:	06/02/22	Sheet #	1
Calculations for:	**I-49 Over the Arkansas River**					

\\KCOW00\Jobs\63136\Design\Bridges\TO04 - I-49 over Arkansas River\BR1 Main River Unit\Vessel Collision\Vessel Speed\[Vessel Speed Summary.xlsx]Simulation Speeds

References:

SCI report Draft: 3.VC

Data pulled from : \\KCOW00\Jobs\63136\Design\Bridges\TO04 - I-49 over Arkansas River\BR1 Main River Unit\Vessel Collision\Vessel Speed

Vessel Speed from SCI Study

Data shown as "speed" in the SCI report and the table below is the vessel speed plus the current as discussed from email from John at SCI dated 1/12/2022. Current is the speed of the water moving downstream.

VESSEL AND CURRENT TRANSIT SPEED SUMMARY FROM SCI NAVIGATION STUDY

Design Vessels

1 knot = 1.151 mph

				Craig Phillips						Jill Flowers						Mark Knoy						Nelson Jones						Summary of 4 pilots			Summary of 4 pilots		
				Speed			Current			Speed			Current			Speed			Current			Speed			Current			Speed			Speed		
				knots			mph			knots			mph			knots			mph			knots			mph			knots			mph		
Run Number	Span, ft	Flow	Up/Dow	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.
Run 6	400	Low	Down	5.4	2.8	6.1	0.9	0.7	0.9	5.5	2.8	6.4	0.9	0.7	1	4	2.8	4.4	0.9	0.7	0.9	5.1	2.8	5.7	0.9	0.7	0.9						
Run 7	400	Low	Down	7.3	2.8	7.7	0.9	0.7	0.9	10.5	2.8	11	0.9	0.7	1	9.2	2.8	9.7	0.9	0.7	0.9	8.6	2.8	9.2	0.9	0.7	0.9						
Run 8	400	Low	Down	8.4	2.8	9.2	0.9	0.7	0.9	10	2.8	11	0.9	0.7	1	7.9	2.8	8.7	0.9	0.7	0.9	6.9	2.8	7.6	0.9	0.7	0.9						
Run 80	415	Low	Down	4.7	2.8	5.2	0.9	0.7	0.9	6.1	2.8	7.1	0.9	0.7	0.9	5.5	2.8	6.9	0.9	0.7	0.9	5.3	2.8	6	0.9	0.7	0.9						
Run 53	435	Low	Down	4.6	2.8	5.1	0.9	0.7	0.9	4	2.8	4.7	0.9	0.7	0.9	4.5	2.8	5.1	0.9	0.7	0.9	4.3	2.8	4.8	0.9	0.7	0.9						
Run 56	435	Low	Down	9.9	2.8	10.7	0.9	0.7	1	7.8	2.8	8.5	0.9	0.7	0.9	7.1	2.8	7.8	0.9	0.7	0.9	7.1	2.8	7.7	0.9	0.7	0.9						
Run 29	500	Low	Down	6.1	2.8	7	0.9	0.7	0.9	4.5	2.8	5.1	0.9	0.7	0.9	4.8	2.8	5.6	0.9	0.7	0.9	5.9	2.8	7.2	0.9	0.7	1						
Run 32	500	Low	Down	10	2.8	11	0.9	0.7	0.9	10	2.8	11.1	0.9	0.7	1	8.8	2.8	9.8	0.9	0.7	0.9	9.8	2.8	11	0.9	0.7	1		Low	Down		Low	Down
				7.05	**2.8**	**11**				**7.3**	**2.8**	**11.1**				**6.48**	**2.8**	**9.8**				**6.63**	**2.8**	**11**				**6.86**	**2.80**	**10.73**	**7.90**	**3.22**	**12.34**
Run 2	400	Low	Up	4.3	2.1	4.7	0.9	0.8	1	3.3	0	4.8	0.9	0.8	1.1	3.6	2.1	4.2	0.9	0.8	1	4.6	2	5.6	0.9	0.8	1						
Run 49	435	Low	Up	4.2	2.1	4.7	0.9	0.8	1	4.8	2.1	5.6	0.9	0.8	1	4.2	0	5.6	0.9	0.8	1	4.9	2	5.6	0.9	0.8	1						
Run 25	500	Low	Up	3.9	2.1	4.5	0.9	0.8	1.1	3.8	2.1	4.5	0.9	0.8	1.1	4.9	2.1	5.7	0.9	0.8	1	3.7	2	4.1	0.9	0.8	1						
Run 28	500	Low	Up	4	2.1	4.4	0.9	0.8	1	5	1.6	6.2	0.9	0.8	1	6	0.1	9.5	0.9	0.7	1	4.9	2	5.6	0.9	0.8	1		Low	Up		Low	Up
				4.1	**2.1**	**4.7**				**4.23**	**0**	**6.2**				**4.68**	**0**	**9.5**				**4.53**	**2**	**5.6**				**4.38**	**1.03**	**6.50**	**5.04**	**1.18**	**7.48**
Run 13	400	Med	Down	5.2	2.8	6	1.8	1.6	1.9	4.4	2.8	6.6	1.8	1.6	1.9	4.8	1.7	7.2	1.7	1.5	1.9	6.9	2.8	8.2	1.8	1.6	2.1						
Run 14	400	Med	Down	5.2	2.8	6	1.8	1.6	1.9	6.9	2.8	8.1	1.8	1.6	2	6.9	2.8	7.9	1.8	1.6	1.9	6.8	2.8	8	1.8	1.6	1.9						
Run 16	400	Med	Down	6.3	2.8	7	1.8	1.6	1.9	10.7	2.8	11.6	1.8	1.6	2.1	7.1	2.8	7.8	1.8	1.6	1.9	9.8	2.8	10.8	1.8	1.6	2						
Run 79	415	Med	Down	5.3	2.8	6.1	1.8	1.6	1.9	6.8	2.8	8	1.8	1.6	1.9	5.5	0	6.9	1.8	1.6	1.9	5.5	2.8	7.3	1.8	1.6	1.9						
Run 62	435	Med	Down	6.7	2.8	8	1.8	1.6	1.9	6.6	2.8	7.8	1.8	1.6	1.9	6.6	2.8	7.8	1.8	1.6	1.9	6.6	2.8	8	1.8	1.6	1.9						
Run 64	435	Med	Down	8.7	2.8	9.8	1.8	1.6	1.9	7.3	2.8	8.1	1.8	1.6	1.9	7	2.8	7.7	1.8	1.6	1.9	8	2.8	8.8	1.8	1.6	1.9						
Run 61	435	Med	Down	5.4	2.8	6.1	1.8	1.6	1.9	6.8	2.8	7.9	1.8	1.6	1.9	6.9	2.8	7.9	1.8	1.6	2	6.9	2.8	8.1	1.8	1.6	1.9						
Run 38	500	Med	Down	5.1	2.8	5.9	1.8	1.6	1.9	7	2.8	8.2	1.8	1.6	2	6.9	2.8	7.9	1.8	1.6	2	6.7	2.8	8.2	1.8	1.6	1.9						
Run 40	500	Med	Down	6.8	2.8	7.5	1.8	1.6	1.9	5.4	2.8	8	1.8	1.6	1.9	5.6	2.8	6.2	1.8	1.6	1.9	7.6	2.8	8.9	1.8	1.6	2		Med	Down		Med	Down
				6.08	**2.8**	**9.8**				**6.88**	**2.8**	**11.6**				**6.37**	**0**	**7.9**				**7.20**	**2.8**	**10.8**				**6.63**	**2.10**	**10.03**	**7.63**	**2.42**	**11.54**
Run 60	435	Med	Up	5.9	2.1	6.8	1.9	1.7	2.1	6.9	1.3	8.5	1.9	1.7	2.1	7.8	2.1	8.5	1.9	1.7	2.1	6.8	2	7.7	1.9	1.7	2.1						
Run 33	500	Med	Up	3.4	2.1	3.8	1.9	1.7	2.1	3.2	2.1	4.6	1.9	1.7	2.2	4.3	1.6	5.1	1.9	1.7	2.1	4	2	5.1	1.9	1.7	2.1						
Run 36	500	Med	Up	4.7	2.1	5.3	1.9	1.7	2.1	5.8	2.1	7.2	1.9	1.6	2.1	6.5	0.4	8.7	1.8	1.6	2.1	5.2	2	6	1.9	1.7	2.1		Med	Up		Med	Up
				4.67	**2.1**	**6.8**				**5.30**	**1.3**	**8.5**				**6.20**	**0.4**	**8.7**				**5.33**	**2**	**7.7**				**5.38**	**1.45**	**7.93**	**6.19**	**1.67**	**9.12**
Run 22	400	High	Down	6	2.8	8.4	2.7	2.5	2.9	7.3	2.8	8.8	2.7	2.5	3	4.8	2.8	5.6	2.6	2.5	2.8	7.6	2.8	9.2	2.7	2.4	3.1						
Run 24	400	High	Down	6.9	2.8	7.6	2.6	2.5	2.8	11.4	2.8	12.4	2.7	2.5	3	8.6	2.8	9.7	2.7	2.5	2.9	9.3	2.8	11	2.7	2.5	2.9						
Run 81	415	High	Down	6.5	2.8	8.4	2.6	2.4	2.9	7.3	2.8	9	2.6	2.5	2.9	7.5	2.8	9.1	2.7	2.5	2.9	7.4	2.8	8.9	2.7	2.5	2.9						
Run 70	435	High	Down	7.3	2.8	9.1	2.6	2.5	2.8	7.2	2.8	8.9	2.6	2.5	2.8	7.2	2.8	8.7	2.6	2.5	2.8	7.2	2.8	8.9	2.6	2.5	2.8						
Run 72	435	High	Down	8.6	2.8	11.7	2.6	2.4	2.8	11.2	2.8	12.4	2.7	2.5	2.9	10.4	2.8	12.3	2.7	2.5	2.9	11.3	2.8	12.4	2.7	2.5	2.9						
Run 45	500	High	Down	5.4	2.8	7	2.6	2.5	2.9	5.5	2.8	7.8	2.6	2.5	2.9	5.3	2.8	8.6	2.6	2.4	2.8	7.6	2.8	9.3	2.7	2.5	3						
Run 48	500	High	Down	10.9	2.8	12.2	2.7	2.5	2.9	9.1	2.8	10	2.6	2.5	2.9	8.2	2.8	9.3	2.6	2.5	2.8	11.2	2.8	12.5	2.7	2.5	2.9		High	Down		High	Down
				7.37	**2.8**	**12.2**				**8.43**	**2.8**	**12.4**				**7.43**	**2.8**	**12.3**				**8.80**	**2.8**	**12.5**				**8.01**	**2.80**	**12.35**	**9.21**	**3.22**	**14.21**
Run 18	400	High	Up	4.3	2.1	4.9	2.8	2.4	3.2	4.4	2.1	4.9	2.8	2.3	3.1	4.4	2.1	4.9	2.9	2.4	3.2	4.3	2	4.9	2.8	2.4	3.1						
Run 20	400	High	Up	5.6	2.1	6.1	2.8	2.5	3.1	6.1	2.1	7.5	2.8	2.5	3.1	6.2	2.1	6.8	2.8	2.4	3.2	5.1	1.5	6	2.8	2.5	3.1						
Run 42	500	High	Up																														
Run 44	500	High	Up	6.1	2.1	6.8	1.9	1.7	2.1	6.7	2.1	7.6	1.9	1.6	2.1	6	2.1	6.6	1.9	1.7	2.1	7.4	2	8.2	1.9	1.7	2.1						
Run 66	435	High	Up	4.3	2.1	4.9	2.8	2.5	3.2	4.3	2.1	4.8	2.8	2.5	3.2	4.4	2.1	4.9	2.8	2.4	3.2	4.3	2	4.9	2.8	2.5	3.1						
Run 68	435	High	Up	5.7	2.1	7.3	2.8	2.5	3.1	7.2	2.1	7.9	2.8	2.5	3.1	7.4	2.1	8	2.8	2.5	3.2	7.2	2	8.1	2.8	2.5	3.1		High	Up		High	Up
				5.20	**2.1**	**7.3**				**5.74**	**2.1**	**7.9**				**5.68**	**2.1**	**8**				**5.66**	**1.5**	**8.2**				**5.57**	**1.95**	**7.85**	**6.41**	**2.24**	**9.03**

Appendix D

Pilot Questionnaires

HNTB

Vessel Questionnaire for:
I-49 over the Arkansas River (MKARNS MM 291.6)
Barling, AR

Company: KIRBY INLAND
Pilot: LARRY ADAMS
Phone Number: 479-970-5139

1. Jumbo Hopper Barge Tows
   a. Typical barge dimensions (e.g. 35' x 200'): CORRECT
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: 12
      ii. Maximum: 15
   c. Number of tows per year: 25
      i. One-way or round trip: ROUND
   d. Loaded and Unloaded draft
      i. Maximum: 8'6'
      ii. Minimum: 1'6'
   e. Towboat size
      i. L x W x Draft: 100 x 35
      ii. Displacement (i.e. towboat weight): 335

2. Oversized Tanker Tows
   a. Typical barge dimensions (e.g. 54' x 300'): CORRECT
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: 600 x 54
      ii. Maximum: 300 x 108
   c. Number of tows per year: 10
      i. One-way or round trip: ROUND
   d. Loaded and Unloaded draft
      i. Maximum: 9'0
      ii. Minimum: 1'6'
   e. Towboat size
      i. L x W x Draft: 288 x 35
      ii. Displacement (i.e. towboat weight): 325
   f. Transit Speed for the following conditions
      Low flow, Q=20,000 cfs
      i. Upbound: 6-7 Loaded ✓ Unloaded
      ii. Downbound: 10-11 Loaded ✓ Unloaded
      Medium flow, Q=50,000 cfs
      i. Upbound: 5-6 Loaded ✓ Unloaded
      ii. Downbound: 12-13 Loaded ✓ Unloaded
      High flow, Q=100,000 cfs
      i. Upbound: 3-5 Loaded ✓ Unloaded
      ii. Downbound: 14-15 Loaded ✓ Unloaded

3. What other vessels operate near MM291.6 of MKARNS? Vessel Type: CORPS
   a. Typical vessel dimensions (e.g. X' x X'): 300 x 35
   b. Typical and maximum size (e.g. XxX typical and XxX maximum)
      i. Typical: _____
      ii. Maximum: _____
   c. Number of tows per year: _____
      i. One-way or round trip: _____
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: _____
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____
   f. Transit Speed for the following conditions

      Low flow, Q=20,000 cfs
      i. Upbound: _____ Loaded _____ Unloaded
      ii. Downbound: _____ Loaded _____ Unloaded

      Medium flow, Q=50,000 cfs
      iii. Upbound: _____ Loaded _____ Unloaded
      iv. Downbound: _____ Loaded _____ Unloaded

      High flow, Q=100,000 cfs
      iii. Upbound: _____ Loaded _____ Unloaded
      iv. Downbound: _____ Loaded _____ Unloaded

4. What wind speed would prevent you from navigating the river? MTY'S 20+

5. What river discharge would prevent you from navigating the river? *LOADS 70+ NO MORE THAN 12

6. What other companies do you know that navigate this section of the river? *90+ NO MORE THAN 8
   a. PINE BLUFF SAND + GRAVEL
   b. JANTRAN
   c. MARQUETTE

HNTB

Vessel Questionnaire for:
I-49 over the Arkansas River (MKARNS MM 291.6)
Barling, AR

Company: ACBL
Pilot: Adam Nunally
Phone Number: (270) 559-9599

1. Jumbo Hopper Barge Tows
   a. Typical barge dimensions (e.g. 35' x 200'): Yes
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: 3x4
      ii. Maximum: 3x5 with 1 hip
   c. Number of tows per year: 40
      i. One-way or round trip: Round trip
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: 9'
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____

2. Oversized Tanker Tows
   a. Typical barge dimensions (e.g. 54' x 300'): _____
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: _____
      ii. Maximum: _____
   c. Number of tows per year: _____
      i. One-way or round trip: _____
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: _____
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____
   f. Transit Speed for the following conditions
      Low flow, Q=20,000 cfs
      i. Upbound: 5.5 Loaded 6.5 Unloaded
      ii. Downbound: _____ Loaded _____ Unloaded
      Medium flow, Q=50,000 cfs
      i. Upbound: 4.5 Loaded 5.5 Unloaded
      ii. Downbound: 7 mph Loaded _____ Unloaded
      High flow, Q=100,000 cfs
      i. Upbound: 3.5 mph Loaded 4.5 mph Unloaded
      ii. Downbound: 7.5 mph Loaded _____ Unloaded

3. What other vessels operate near MM291.6 of MKARNS? Vessel Type: _____
    a. Typical vessel dimensions (e.g. X' x X'): _____
    b. Typical and maximum size (e.g. XxX typical and XxX maximum)
        i. Typical: _____
        ii. Maximum: _____
    c. Number of tows per year: _____
        i. One-way or round trip: _____
    d. Loaded and Unloaded draft
        i. Maximum: _____
        ii. Minimum: _____
    e. Towboat size
        i. L x W x Draft: _____
        ii. Displacement (i.e. towboat weight): _____
    f. Transit Speed for the following conditions
    Low flow, Q=20,000 cfs
        i. Upbound: _____ Loaded _____ Unloaded
        ii. Downbound: _____ Loaded _____ Unloaded
    Medium flow, Q=50,000 cfs
        iii. Upbound: _____ Loaded _____ Unloaded
        iv. Downbound: _____ Loaded _____ Unloaded
    High flow, Q=100,000 cfs
        iii. Upbound: _____ Loaded _____ Unloaded
        iv. Downbound: _____ Loaded _____ Unloaded

4. What wind speed would prevent you from navigating the river? 25 + mph

5. What river discharge would prevent you from navigating the river? Anything above 100,000 cfs

6. What other companies do you know that navigate this section of the river?
    a. Jantran - Rosedale harbor
    b. Marquette
    c. _____

HNTB

Vessel Questionnaire for:
I-49 over the Arkansas River (MKARNS MM 291.6)
Barling, AR

Company: ARTCO
Pilot: DAVID WEAVER
Phone Number: 309-224-6589

1. Jumbo Hopper Barge Tows
   a. Typical barge dimensions (e.g. 35' x 200'): 35 x 200
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: 3 x 5
      ii. Maximum: 3 x 5
   c. Number of tows per year: 18
      i. One-way or round trip: ROUND TRIP
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: _____
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____

2. Oversized Tanker Tows
   a. Typical barge dimensions (e.g. 54' x 300'): NONE
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: _____
      ii. Maximum: _____
   c. Number of tows per year: _____
      i. One-way or round trip: _____
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: _____
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____
   f. Transit Speed for the following conditions
      Low flow, Q=20,000 cfs
      i. Upbound: _____ Loaded _____ Unloaded
      ii. Downbound: _____ Loaded _____ Unloaded
      Medium flow, Q=50,000 cfs
      i. Upbound: _____ Loaded _____ Unloaded
      ii. Downbound: _____ Loaded _____ Unloaded
      High flow, Q=100,000 cfs
      i. Upbound: _____ Loaded _____ Unloaded
      ii. Downbound: _____ Loaded _____ Unloaded

3. What other vessels operate near MM291.6 of MKARNS? Vessel Type: _____
    a. Typical vessel dimensions (e.g. X' x X'): _____
    b. Typical and maximum size (e.g. XxX typical and XxX maximum)
        i. Typical: _____
        ii. Maximum: _____
    c. Number of tows per year: _____
        i. One-way or round trip: _____
    d. Loaded and Unloaded draft
        i. Maximum: _____
        ii. Minimum: _____
    e. Towboat size
        i. L x W x Draft: _____
        ii. Displacement (i.e. towboat weight): _____
    f. Transit Speed for the following conditions
    Low flow, Q=20,000 cfs
        i. Upbound: _____ Loaded _____ Unloaded
        ii. Downbound: _____ Loaded _____ Unloaded
    Medium flow, Q=50,000 cfs
        iii. Upbound: _____ Loaded _____ Unloaded
        iv. Downbound: _____ Loaded _____ Unloaded
    High flow, Q=100,000 cfs
        iii. Upbound: _____ Loaded _____ Unloaded
        iv. Downbound: _____ Loaded _____ Unloaded

4. What wind speed would prevent you from navigating the river? 20 MPH +

5. What river discharge would prevent you from navigating the river? _____

6. What other companies do you know that navigate this section of the river?
    a. ARTCO
    b. _____
    c. _____

HNTB

Vessel Questionnaire for:
I-49 over the Arkansas River (MKARNS MM 291.6)
Barling, AR

Company: Canal Barge Co.
Pilot: Mike Coley
Phone Number: 251-604-1706

1. Jumbo Hopper Barge Tows
   a. Typical barge dimensions (e.g. 35' x 200'): [illegible]
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: ~~2x2~~
      ii. Maximum: ~~4~~
   c. Number of tows per year: ~~Irregular - 1~~
      i. One-way or round trip: ~~Round Trip~~
   d. Loaded and Unloaded draft
      i. Maximum: ~~9'~~
      ii. Minimum: ~~3'~~
   e. Towboat size
      i. L x W x Draft: ~~Varies - 35' x 65'~~
      ii. Displacement (i.e. towboat weight): ?

2. Oversized Tanker Tows
   a. Typical barge dimensions (e.g. 54' x 300'): Yes
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: 2x2
      ii. Maximum: _____
   c. Number of tows per year: Varies - 1
      i. One-way or round trip: Round Trip
   d. Loaded and Unloaded draft
      i. Maximum: 9'
      ii. Minimum: 3'
   e. Towboat size
      i. L x W x Draft: 35' x 70' x 9'6"
      ii. Displacement (i.e. towboat weight): _____
   f. Transit Speed for the following conditions

      Low flow, Q=20,000 cfs
      i. Upbound: 5.0 Loaded 2-3 Unloaded
      ii. Downbound: 5.0 Loaded 2-3 Unloaded

      Medium flow, Q=50,000 cfs
      i. Upbound: 4 Loaded 2-3 Unloaded
      ii. Downbound: 6 Loaded 2-3 Unloaded

      High flow, Q=100,000 cfs
      i. Upbound: 2.5 Loaded 2-3 Unloaded
      ii. Downbound: 11.0 Loaded 2-3 Unloaded

3. What other vessels operate near MM291.6 of MKARNS? Vessel Type: VanBuren Harbor Charles Straight
   a. Typical vessel dimensions (e.g. X' x X'): _____
   b. Typical and maximum size (e.g. XxX typical and XxX maximum)
      i. Typical: _____
      ii. Maximum: _____
   c. Number of tows per year: _____
      i. One-way or round trip: _____
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: _____
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____
   f. Transit Speed for the following conditions
      Low flow, Q=20,000 cfs
      i. Upbound: _____ Loaded _____ Unloaded
      ii. Downbound: _____ Loaded _____ Unloaded
      Medium flow, Q=50,000 cfs
      iii. Upbound: _____ Loaded _____ Unloaded
      iv. Downbound: _____ Loaded _____ Unloaded
      High flow, Q=100,000 cfs
      iii. Upbound: _____ Loaded _____ Unloaded
      iv. Downbound: _____ Loaded _____ Unloaded

4. What wind speed would prevent you from navigating the river? 20 – 25mph – dependens on Direction

5. What river discharge would prevent you from navigating the river? 100k up

6. What other companies do you know that navigate this section of the river?
   a. Jan Tran
   b. Magnolia
   c. _____

HNTB

Vessel Questionnaire for:
I-49 over the Arkansas River (MKARNS MM 291.6)
Barling, AR

Company: STC INC.
Pilot: JOE LEE GOODWIN
Phone Number: 870-830-6704

1. Jumbo Hopper Barge Tows
   a. Typical barge dimensions (e.g. 35' x 200'): _____
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: _____
      ii. Maximum: _____
   c. Number of tows per year: _____
      i. One-way or round trip: _____
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: _____
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____

2. Oversized Tanker Tows
   a. Typical barge dimensions (e.g. 54' x 300'): 4
   b. Typical and maximum size (e.g. 2x4 typical and 3x5 maximum)
      i. Typical: 4
      ii. Maximum: 4
   c. Number of tows per year: 8
      i. One-way or round trip: _____
   d. Loaded and Unloaded draft
      i. Maximum: 8'9"
      ii. Minimum: 1'5
   e. Towboat size
      i. L x W x Draft: 114' 28' 8'6
      ii. Displacement (i.e. towboat weight): —
   f. Transit Speed for the following conditions
      Low flow, Q=20,000 cfs
      i. Upbound: 6.0 MPH Loaded 7.0 Unloaded
      ii. Downbound: 11.0 Loaded 11.0 Unloaded
      Medium flow, Q=50,000 cfs
      i. Upbound: 4.0 Loaded 11.0 Unloaded
      ii. Downbound: 10.0 Loaded 13.0 Unloaded
      High flow, Q=100,000 cfs
      i. Upbound: 3.0 Loaded 5.0 Unloaded
      ii. Downbound: 10. Loaded 13.0 Unloaded

3. What other vessels operate near MM291.6 of MKARNS? Vessel Type: _____
   a. Typical vessel dimensions (e.g. X' x X'): _____
   b. Typical and maximum size (e.g. XxX typical and XxX maximum)
      i. Typical: _____
      ii. Maximum: _____
   c. Number of tows per year: _____
      i. One-way or round trip: _____
   d. Loaded and Unloaded draft
      i. Maximum: _____
      ii. Minimum: _____
   e. Towboat size
      i. L x W x Draft: _____
      ii. Displacement (i.e. towboat weight): _____
   f. Transit Speed for the following conditions
      Low flow, Q=20,000 cfs
      i. Upbound: _____ Loaded _____ Unloaded
      ii. Downbound: _____ Loaded _____ Unloaded
      Medium flow, Q=50,000 cfs
      iii. Upbound: _____ Loaded _____ Unloaded
      iv. Downbound: _____ Loaded _____ Unloaded
      High flow, Q=100,000 cfs
      iii. Upbound: _____ Loaded _____ Unloaded
      iv. Downbound: _____ Loaded _____ Unloaded

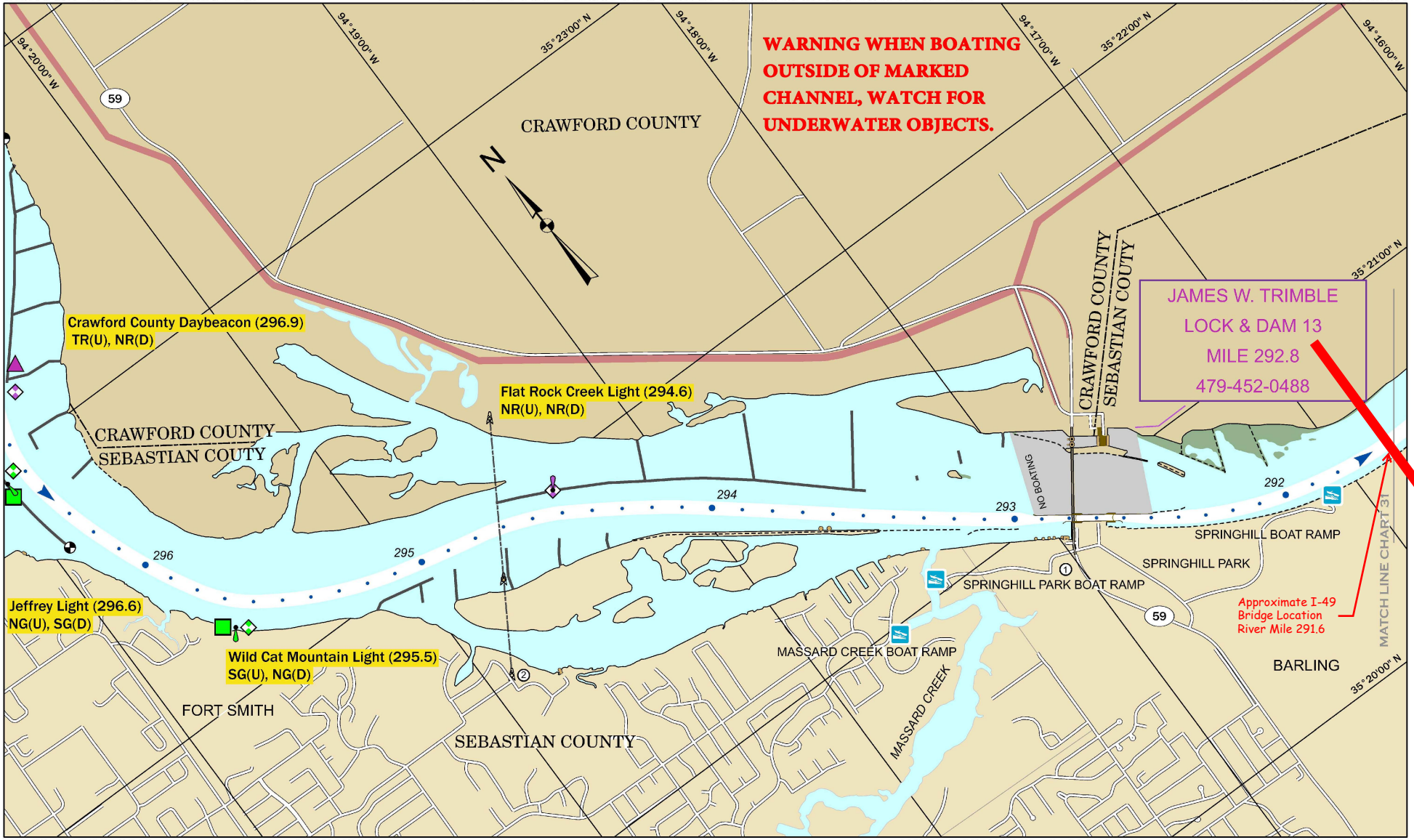
4. What wind speed would prevent you from navigating the river? 35

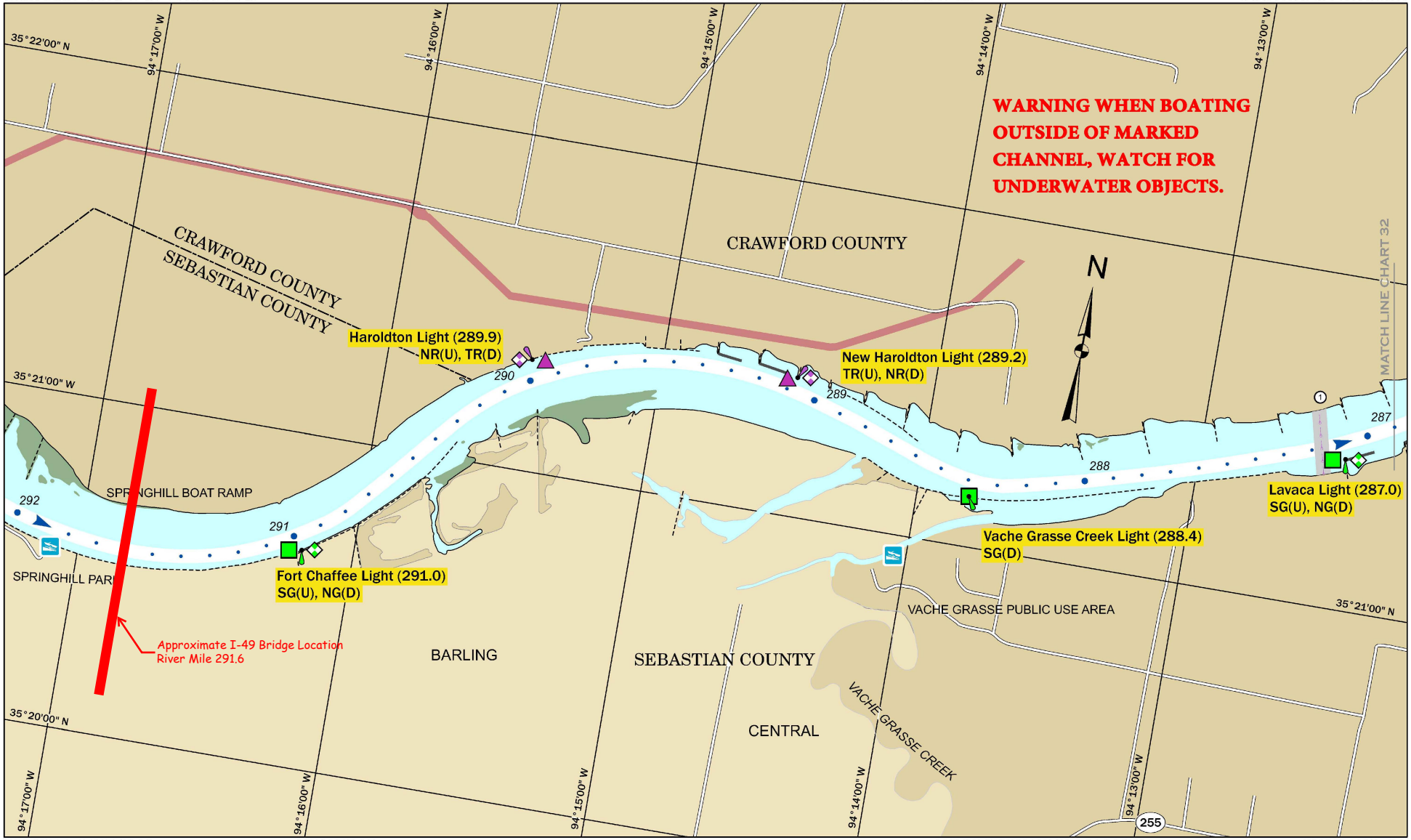
5. What river discharge would prevent you from navigating the river? 0

6. What other companies do you know that navigate this section of the river?
   a. JAN. TRAW
   b. MARGETT
   c. _____

Appendix E

MM 291
Navigation
Charts


WARNING WHEN BOATING OUTSIDE OF MARKED CHANNEL, WATCH FOR UNDERWATER OBJECTS.
94°20'00" W
94°19'00" W
35°23'00" N
94°18'00" W
94°17'00" W
35°22'00" N
94°16'00" W
35°21'00" N
35°20'00" N
59
CRAWFORD COUNTY
N
Crawford County Daybeacon (296.9)
TR(U), NR(D)
Flat Rock Creek Light (294.6)
NR(U), NR(D)
CRAWFORD COUNTY
SEBASTIAN COUTY
CRAWFORD COUNTY
SEBASTIAN COUTY
JAMES W. TRIMBLE
LOCK & DAM 13
MILE 292.8
479-452-0488
NO BOATING
296
295
294
293
292
SPRINGHILL BOAT RAMP
SPRINGHILL PARK
SPRINGHILL PARK BOAT RAMP
Approximate I-49
Bridge Location
River Mile 291.6
MATCH LINE CHART 31
Jeffrey Light (296.6)
NG(U), SG(D)
Wild Cat Mountain Light (295.5)
SG(U), NG(D)
MASSARD CREEK BOAT RAMP
MASSARD CREEK
BARLING
FORT SMITH
SEBASTIAN COUNTY


35°22'00" N
94°17'00" W
94°16'00" W
94°15'00" W
94°14'00" W
94°13'00" W
WARNING WHEN BOATING OUTSIDE OF MARKED CHANNEL, WATCH FOR UNDERWATER OBJECTS.
CRAWFORD COUNTY
CRAWFORD COUNTY
SEBASTIAN COUNTY
N
MATCH LINE CHART 32
Haroldton Light (289.9)
NR(U), TR(D)
New Haroldton Light (289.2)
TR(U), NR(D)
35°21'00" W
290
289
288
287
292
291
SPRINGHILL BOAT RAMP
SPRINGHILL PARK
Lavaca Light (287.0)
SG(U), NG(D)
Vache Grasse Creek Light (288.4)
SG(D)
Fort Chaffee Light (291.0)
SG(U), NG(D)
VACHE GRASSE PUBLIC USE AREA
35°21'00" N
Approximate I-49 Bridge Location
River Mile 291.6
BARLING
SEBASTIAN COUNTY
CENTRAL
VACHE GRASSE CREEK
35°20'00" N
255

Appendix F

040748 USCG Clearance

U.S. Department of Homeland Security
United States Coast Guard

Commander
Eighth Coast Guard District

1222 Spruce Street
St. Louis, MO 63103-2832
Staff Symbol: dwb
Phone: (314)269-2434
Email: allan.o.monterroza@uscg.mil

16591.1/291.6 ARR
January 31, 2022

Mr. Charles R. Ellis
Arkansas Department of Transportation
PO Box 2261
Little Rock, AR 77203-2261

Subj: PROPOSED I-49 HIGHWAY BRIDGE, MILE 291.6 ARKANSAS RIVER, SEBASTIAN & CRAWFORD COUNTIES, ARKANSAS

Dear Mr. Ellis:

We have completed our navigational clearance review for the subject bridge project. Our review included input from the marine industry, Arkansas Waterway Commission, results from Seamen's Church simulations and the Little Rock District Army Corps of Engineers. Navigation span minimal clearance of the new bridge at the proposed location shall be:

a. Vertical: At least 52 feet clearance above 2 percent flowline elevation of 389.3 feet mean sea level m.s.l. (minimum elevation 441.3 m.s.l.)

b. Horizontal: At least 400 feet between the face of the left descending channel pier and the right descending bank at normal pool, measured perpendicular to the axis of the channel. The right descending channel pier must be located out of the water on the right descending bank.

This is a preliminary determination. A final determination occurs after the end date or our public notice. Comments concerning the design of the bridge to withstand impacts from river traffic or to employ pier protection are needed and if possible, should be included in the environmental documentation for this project.

You may contact Mr. Allan Monterroza at the number listed above if additional information is needed.

ARKANSAS DEPARTMENT OF TRANSPORTATION
FEB 11 2022
RECEIVED
BRIDGE DIVISION

Sincerely,

ERIC A. WASHBURN
Bridge Administrator, Western Rivers
By direction of the District Commander

Appendix G

Vessel Collision Calculations

VESSEL COLLISION CALCULATION

HNTB

HNTB	Made by:	NAM	Date	01/25/21	Job Number	63136
	Checked by		Date			
The HNTB Companies	Backchecked by:		Date		Sheet #	1
Calculations for:	**I-49 Over the Arkansas River**					

References:

Design Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)
Design Code: *AASHTO Guide Specs & Commentary for Vessel Collision Design of Highway Bridges, 2nd Ed. (2009)
Questionaires: \\KCOW00\Jobs\63136\Design\Bridges\TO04 - I-49 over Arkansas River\BR1 Main River Unit\Vessel Collision\Questionaires
USACE Data: \\KCOW00\Jobs\63136\Design\Bridges\TO04 - I-49 over Arkansas River\BR1 Main River Unit\Vessel Collision\Vessel Data
SCI Velocities: \\KCOW00\Jobs\63136\Design\Bridges\TO04 - I-49 over Arkansas River\BR1 Main River Unit\Vessel Collision\Vessel Speed

Vessel Collision Study (CV) - Design Information

Design Vessels

Jumbo Hopper Barge

Average data on the right is pulled from USACE data for boat type 4 = dry cargo barge

							AASHTO 3.14.11	
Length =	195.00	ft	Average Barge Length from USACE =	198.30	ft		195.00	ft
Width =	35.00	ft	Average Barge Length from USACE =	35.10	ft		35.00	ft
Light Draft =	1.70	ft	Average Light Draft from USACE =	1.70	ft		1.70	ft
Loaded Draft =	8.70	ft	Average Loaded Draft from USACE =	10.20	ft		8.70	ft
Cargo Capacity =	1491	tons	Average Actual Draft from USACE =	7.15	ft			
			Average Loaded Draft from USACE with draft > 2ft=	8.46	ft			

AASHTO Table 3.5.1-1*. Typical barge size confirmed by conversations with barge companies and data provided by USACE.

Tow Configuration Width = 3 barges
Tow Configuration Length = 5 barges

Maximum configuration per conversations with barge companies and verified by USACE. 3x5 Barge tows were used in the navigation span length study by SCI.

Static Force Tow Config. Width = 1 barges

Use 1 barge wide per *AASHTO 3.8 due to assumed adjacent barge "break-away". Once a barge impacts a pier, assume the ropes that tie all the barges together are broken.

Oversized Tank Barge

Average data on the right is pulled from USACE data for boat type 5 = liquid barge

							AASHTO 3.5.1.1-1*	
Length =	290.00	ft	Average Barge Length from USACE =	254.80	ft		290.00	ft
Width =	53.00	ft	Average Barge Length from USACE =	47.80	ft		53.00	ft
Light Draft =	1.70	ft	Average Light Draft from USACE =	2.00	ft		1.70	ft
Loaded Draft =	8.70	ft	Average Loaded Draft from USACE =	9.80	ft		8.70	ft
Cargo Capacity =	3357	tons	Average Actual Draft from USACE =	5.68	ft			
			Average Loaded Draft from USACE with draft > 2ft=	6.90	ft			

AASHTO Table 3.5.1-1*. Typical barge size confirmed by conversations with barge companies and data provided by USACE.

Tow Configuration Width = 1 barges
Tow Configuration Length = 2 barges

Maximum configuration per conversations with barge companies 1x2 or 2x1 and AASHTO 3.5.1-2*
.

Static Force Tow Config. Width = 1 barges

Use 1 barge wide per *AASHTO 3.8 due to assumed adjacent barge "break-away". Once a barge impacts a pier, assume the ropes that tie all the barges together are broken.

Towboat

Average data on the right is pulled from USACE data for boat type 3 = tow boats

Length =	146.00	ft	Average Towboat Length from USACE =	108.90	ft
Width =	35.00	ft	Average Towboat Length from USACE =	33.40	ft
Light Draft =	9.00	ft	Average Light Draft from USACE =	7.80	ft
Displacement Wt =	650.0	tons	Average Loaded Draft from USACE =	8.80	ft

AASHTO Table 3.5.1-1*. Assume tow boat is 4000 HP. Data on barge information is provided in the towboat spreadsheet and can matched up with the names of the boats in the flotilla report for recent trips only.

Vessel Collision Study (CV) - Design Information

Annual Number of Vessels

Primary information comes from USACE vessel study from previous 15 years (2005 thru 2019).
Data supplemented with conversations with barge companies at Navigation Span Simulation Study

	Annual Average	Max	**Use**
Jumbo Hopper Barge Tows (Upbound) =	126	193	**140**
Jumbo Hopper Barge Tows (Downbound) =	89	119	**95**
Oversized Tank Barge Tows (Upbound) =	40	71	**45**
Oversized Tank Barge Tows (Downbound) =	103	193	**120**

"Use" vessels are what is used in the calculations as is based on engineering judgement. The value is shown as approximately the Annual average + 20% of the difference between maximum and annual average.

Pier 2 = South Navigation Channel Pier
Pier 3 = North Navigation Channel Pier

Transit Velocity

	Elevation ft	Flow ft/s	
Low Flow =	373.47	1.24	
MHW* =	375.58	2.04	Use for minimum Vmin
Medium Flow =	376.83	2.52	
High Flow =	382.83	3.78	

SCI Study flow elevations and velocities

Discharge (Q in cfs)	Source	Water Surface Elev (ft)	Velocity (ft/s)
20,000	Low SCI - 2D RAS	373.47	1.24
50,000	Med SCI - 2D RAS	376.83	2.52
100,000	High SCI - 2D RAS	382.83	3.78
153,000	2% flowline - 1D RAS	389.21	4.68
480,000	100yr - 1D RAS	402.39	9.64
625,000	^>500yr - 1D RAS	404.91	11.22

	mph	fps		
V_T Typical Upbound=	6.5	9.5		Per Navigation Simulations Study at Medium Flow which is slightly higher than MHW.
V_T Typical Downbound=	7.5	11.0		Per Navigation Simulations Study at Medium Flow which is slightly higher than MHW.
V_{MIN} Minimum Upbound =	2.0	2.9	**OK**	Per Navigation Simulations Study at Medium Flow which is slightly higher than MHW.
V_{MIN} Minimum Downbound =	3.0	4.4		"Coasting" with the current - per conversations with barge companies.

Bridge & Channel Details

		Main Span Pier	**Main Span Pier**			
Pier Location	**Bank**	**River**	**River**	**River**	**Bank**	
Pier	**Pier 1**	**Pier 2**	**Pier 3**	**Pier 4**	**Pier 5**	
Station	178+03.00	181+58.00	185+98.00	190+38.00	193+93.00	
Width	10.00	10.00	10.00	10.00	10.00	
* Mean (Average) High Water Elev.	375.58	375.58	375.58	375.58	375.58	
** Mudline Elev.	395.30	388.80	354.78	360.78	387.99	
Ultimate Resistance of Bridge Pier =	**0**	**0**	**3100**	**3100**	**0**	kips

Increase Ultimate Resistance until Annual Frequency of Collapse (AF) is acceptable.

Notes: All elevations are NAVD88.
MHW calculations: <<\\KCOW00\Jobs\63136\Design\Bridges\TO04 - I-49 over Arkansas River\BR1 Main River Unit\Vessel Collision\Hydraulic Data>>
* Pool Elevation is 370.00, the hourly average for the past 10 years is used and is MHW.
** Based on Hydrographic Survey imported into Microstation.

Current Component Parallel to Transit Path =	3.0	mph	Based on SCI Vessel Speed Data Maximum Currents provided, assumed along the river
Current Component Perpendicular to Transit Path =	1.5	mph	conservatively assumed strong cross current
Max Allowable Annual Frequency of Collapse (AF) =	0.00010		(per AASHTO 3.14.5 and 4.8.2 of Vessel Collison Guide)

Use 3100 k at Elev. 380.00 at Piers 3 and 4

Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Design Impact Velocity (V) **AASHTO 3.14.6**

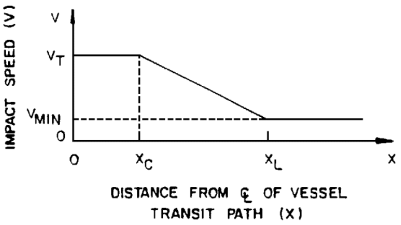


Figure 3.14.6-1—Design Collision Velocity Distribution

Jumbo Hopper - Upbound						
Single Vessel Overall Length (LOA):			1121.0	ft		
Clear Width of Navigation Channel:			430.0	ft		
Distance CL Channel to edge of Channel (Xc):			215.0	ft		
3*LOA (X_L):			3363.0	ft		
Pier	**Bank Pier 1**	**Main Span Bank Pier 2**	**Main Span River Pier 3**	**River Pier 4**	**Bank Pier 5**	
Station	178+03.00	181+58.00	185+98.00	190+38.00	193+93.00	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Width of Pier (ft)	10.0	10.0	10.0	10.0	10.0	
Distance (X) Face of Pier to CL Channel (ft)	570.0	215.0	215.0	655.0	1010.0	
Typ Transit Velocity (V_T) (fps)			9.5	9.5		(not less than Vmin)
Min Transit Velocity (V_{MIN}) (fps)			2.9	2.9		(not less than yearly mean current velocity)
Design Impact Velocity (V):	0.0	0.0	9.5	8.6	0.0	Fig. 3.14.6-1

Jumbo Hopper - Downbound						
Single Vessel Overall Length (LOA):			1121.0	ft		
Width of Navigation Channel:			430.0	ft		
Distance CL Channel to edge of Channel (Xc):			215.0	ft		
3*LOA (X_L):			3363.0	ft		
Pier	**Bank Pier 1**	**River Pier 2**	**River Pier 3**	**River Pier 4**	**Bank Pier 5**	
Station	178+03.00	181+58.00	185+98.00	190+38.00	193+93.00	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Width of Pier (ft)	10.0	10.0	10.0	10.0	10.0	
Distance (X) CL of Pier to CL Channel (ft)	570.0	215.0	215.0	655.0	1010.0	
Typ Transit Velocity (V_T) (fps)			11.0	11.0		(not less than Vmin)
Min Transit Velocity (V_{MIN}) (fps)			4.4	4.4		(not less than yearly mean current velocity)
Design Impact Velocity (V):	0.0	0.0	11.0	10.1	0.0	Fig. 3.14.6-1

Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Design Impact Velocity (V) **AASHTO 3.14.6**

Oversize Tank - Upbound						
Single Vessel Overall Length (LOA):			726.0	ft		
Width of Navigation Channel:			430.0	ft		
Distance CL Channel to edge of Channel (Xc):			215.0	ft		
3*LOA (X_L):			2178.0	ft		
Pier	**Bank Pier 1**	**River Pier 2**	**River Pier 3**	**River Pier 4**	**Bank Pier 5**	
Station	178+03.00	181+58.00	185+98.00	190+38.00	193+93.00	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Width of Pier (ft)	10.0	10.0	10.0	10.0	10.0	
Distance (X) CL of Pier to CL Channel (ft)	570.0	215.0	215.0	655.0	1010.0	
Typ Transit Velocity (V_T) (fps)			9.5	9.5		(not less than Vmin)
Min Transit Velocity (V_{MIN}) (fps)			2.9	2.9		(not less than yearly mean current velocity)
Design Impact Velocity (V):	0.0	0.0	9.5	8.1	0.0	Fig. 3.14.6-1

Oversize Tank - Downbound						
Single Vessel Overall Length (LOA):			726.0	ft		
Width of Navigation Channel:			430.0	ft		
Distance CL Channel to edge of Channel (Xc):			215.0	ft		
3*LOA (X_L):			2178.0	ft		
Pier	**Bank Pier 1**	**River Pier 2**	**River Pier 3**	**River Pier 4**	**Bank Pier 5**	
Station	178+03.00	181+58.00	185+98.00	190+38.00	193+93.00	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Width of Pier (ft)	10.0	10.0	10.0	10.0	10.0	
Distance (X) CL of Pier to CL Channel (ft)	570.0	215.0	215.0	655.0	1010.0	
Typ Transit Velocity (V_T) (fps)			11.0	11.0		(not less than Vmin)
Min Transit Velocity (V_{MIN}) (fps)			4.4	4.4		(not less than yearly mean current velocity)
Design Impact Velocity (V):	0.0	0.0	11.0	9.5	0.0	Fig. 3.14.6-1

Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Probablity of Aberrancy (PA) **AASHTO 3.14.5.2**

Aberrancy Base Rate (BR):	1.20E-04		
Angle of Turn (ϕ):	87.0	-deg.	
(Drawn in Microstation, see sketch)			
Correction Factor for Bridge Location (R_B):	2.93	(Use Bend Region)	AASHTO 3.14.5.2.3-4
Current Component Parallel to Transit Path (V_C):	4.4	feet per second (fps)	
	2.61	knots	
Correction Factor for Current acting Parallel to Transit Path (R_C):	1.26		AASHTO 3.14.5.2.3-5
Current Component Perpendicular to Transit Path (V_{XC}):	2.2	fps	
	1.30	knots	
Correction Factor for Current acting Perpendicular to Transit Path (R_{XC}):	2.30		AASHTO 3.14.5.2.3-6
Correction Factor for Vessel Traffic Density (R_D):	1.0		AASHTO 3.14.5.2.3-7
(Assume low density and coordinated traffic)			
Probability of Aberrancy (PA):	**0.00102**		AASHTO 3.14.5.2.3-1

Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Geometric Probablity (PG) **AASHTO 3.14.5.3**

Jumbo Hopper Barge		
Pier 1		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	575.0	ft
LOA = Standard Deviation δ =	1121.0	ft
Width of Tow B_M =	105.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	115.0	ft
Start of ship/bridge impact zone =	517.5	ft
End of ship/bridge impact zone =	632.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.6778	
NORM.DIST(x2, mean, sta.dev.) =	0.7137	
Geometric Probability (PG)=	0.03587	

Oversize Tank Barge		
Pier 1		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	575.0	ft
LOA = Standard Deviation δ =	726.0	ft
Width of Tow B_M =	53.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	63.0	ft
Start of ship/bridge impact zone =	543.5	ft
End of ship/bridge impact zone =	606.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.7730	
NORM.DIST(x2, mean, sta.dev.) =	0.7983	
Geometric Probability (PG)=	0.02530	

Jumbo Hopper Barge		
Pier 2		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	220.0	ft
LOA = Standard Deviation δ =	1121.0	ft
Width of Tow B_M =	105.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	115.0	ft
Start of ship/bridge impact zone =	162.5	ft
End of ship/bridge impact zone =	277.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.5576	
NORM.DIST(x2, mean, sta.dev.) =	0.5978	
Geometric Probability (PG)=	0.04013	

Oversize Tank Barge		
Pier 2		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	220.0	ft
LOA = Standard Deviation δ =	726.0	ft
Width of Tow B_M =	53.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	63.0	ft
Start of ship/bridge impact zone =	188.5	ft
End of ship/bridge impact zone =	251.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.6024	
NORM.DIST(x2, mean, sta.dev.) =	0.6355	
Geometric Probability (PG)=	0.03306	

Jumbo Hopper Barge		
Pier 3		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	220.0	ft
LOA = Standard Deviation δ =	1121.0	ft
Width of Tow B_M =	105.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	115.0	ft
Start of ship/bridge impact zone =	162.5	ft
End of ship/bridge impact zone =	277.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.5576	
NORM.DIST(x2, mean, sta.dev.) =	0.5978	
Geometric Probability (PG)=	0.04013	

Oversize Tank Barge		
Pier 3		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	220.0	ft
LOA = Standard Deviation δ =	726.0	ft
Width of Tow B_M =	53.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	63.0	ft
Start of ship/bridge impact zone =	188.5	ft
End of ship/bridge impact zone =	251.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.6024	
NORM.DIST(x2, mean, sta.dev.) =	0.6355	
Geometric Probability (PG)=	0.03306	

Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Geometric Probablity (PG) **AASHTO 3.14.5.3**

Jumbo Hopper Barge		
Pier 4		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	660.0	ft
LOA = Standard Deviation δ =	1121.0	ft
Width of Tow B_M =	105.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	115.0	ft
Start of ship/bridge impact zone =	602.5	ft
End of ship/bridge impact zone =	717.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.7045	
NORM.DIST(x2, mean, sta.dev.) =	0.7389	
Geometric Probability (PG)=	0.03440	

Oversize Tank Barge		
Pier 4		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	660.0	ft
LOA = Standard Deviation δ =	726.0	ft
Width of Tow B_M =	53.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	63.0	ft
Start of ship/bridge impact zone =	628.5	ft
End of ship/bridge impact zone =	691.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.8067	
NORM.DIST(x2, mean, sta.dev.) =	0.8296	
Geometric Probability (PG)=	0.02290	

Jumbo Hopper Barge		
Pier 5		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	1015.0	ft
LOA = Standard Deviation δ =	1121.0	ft
Width of Tow B_M =	105.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	115.0	ft
Start of ship/bridge impact zone =	957.5	ft
End of ship/bridge impact zone =	1072.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.8035	
NORM.DIST(x2, mean, sta.dev.) =	0.8306	
Geometric Probability (PG)=	0.02716	

Oversize Tank Barge		
Pier 5		
Clear Width of Navigation Channel =	430.0	ft
CL Pier to CL Channel =	1015.0	ft
LOA = Standard Deviation δ =	726.0	ft
Width of Tow B_M =	53.0	ft
Width of pier B_P =	10.0	ft
Ship and bridge impact zone =	63.0	ft
Start of ship/bridge impact zone =	983.5	ft
End of ship/bridge impact zone =	1046.5	ft
Mean =	0.0	
NORM.DIST(x1, mean, sta.dev.) =	0.9122	
NORM.DIST(x2, mean, sta.dev.) =	0.9253	
Geometric Probability (PG)=	0.01303	

HNTB	Made by:	NAM	Date	01/19/22	Job Number	63136
	Checked by		Date			
The HNTB Companies	Backchecked by:		Date		Sheet #	8
Calculations for:	**I-49 Over the Arkansas River**					

Equivalent Static Barge Impact Force on Pier

AASHTO LRFD 3.14.11

1. Specification, Code and Criteria

1) Code AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)
2) Importance Classification: Critical/Essential
3) Design Vessel based on AASHTO Guide Specs and Barge Operator Interviews

2. Barge Characteristics

Jumbo Hopper Barges - Upbound					
Length =	195.0	ft			
Width =	35.0	ft			
Light Draft, D_E =	1.7	ft			
Loaded Draft, D_L =	8.7	ft			
Cargo Capacity, Cc =	1491	tons or	1352	tonne	(1 tonne = 1000 kg = 2205 lbs)
Empty barge displacement W_{BE} =	362	tons or	328	tonne	
Loaded Displ., W_L = Cc + W_E =	1853	tons or	1680	tonne	

Towboat Characteristic					
Length =	146.0	ft			
Width =	35.0	ft			
Draft=	9.0	ft			
Displacement W_T =	650	tons or	590	tonne	(1 tonne = 1000 kg = 2205 lbs)

Jumbo Hopper Barges - Downbound					
Length =	195.0	ft			
Width =	35.0	ft			
Light Draft, D_E =	1.7	ft			
Loaded Draft, D_L =	8.7	ft			
Cargo Capacity, Cc =	1491	tons or	1352	tonne	(1 tonne = 1000 kg = 2205 lbs)
Empty displacement W_E =	362	tons or	328	tonne	
Loaded Displ., W_L = Cc + W_E =	1853	tons or	1680	tonne	

Towboat Characteristic					
Length =	146.0	ft			
Width =	35.0	ft			
Draft=	9.0	ft			
Displacement W_T =	650	tons or	590	tonne	(1 tonne = 1000 kg = 2205 lbs)

HNTB	Made by:	NAM	Date	01/19/22	Job Number	63136
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The HNTB Companies	Backchecked by:		Date		Sheet #	9
Calculations for:	**I-49 Over the Arkansas River**					

Oversize Tank Barges - Upbound					
Length =	290.0	ft			
Width =	53.0	ft			
Light Draft, D_E =	1.7	ft			
Loaded Draft, D_L =	8.7	ft			
Cargo Capacity, Cc =	3357	tons or	3045	tonne	(1 tonne = 1000 kg = 2205 lbs)
Empty displacement W_E =	815	tons or	739	tonne	
Loaded Displ., W_L = Cc + W_E =	4172	tons or	3784	tonne	

Towboat Characteristic					
Length =	146.0	ft			
Width =	35.0	ft			
Draft=	9.0	ft			
Displacement W_T =	650	tons or	590	tonne	(1 tonne = 1000 kg = 2205 lbs)

Oversize Tank Barges - Downbound					
Length =	290.0	ft			
Width =	53.0	ft			
Light Draft, D_E =	1.7	ft			
Loaded Draft, D_L =	8.7	ft			
Cargo Capacity, Cc =	3357	tons or	3045	tonne	(1 tonne = 1000 kg = 2205 lbs)
Empty displacement W_E =	815	tons or	739	tonne	
Loaded Displ., W_L = Cc + W_E =	4172	tons or	3784	tonne	

Towboat Characteristic					
Length =	146.0	ft			
Width =	35.0	ft			
Draft=	9.0	ft			
Displacement W_T =	650	tons or	590	tonne	(1 tonne = 1000 kg = 2205 lbs)

HNTB	Made by:	NAM	Date	01/19/22	Job Number	63136
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The HNTB Companies	Backchecked by:		Date		Sheet #	10
Calculations for:	**I-49 Over the Arkansas River**					

3. Calculate Equivalent Static Barge Impact Force on Pier **AASHTO LRFD 3.14.11**

A) Jumbo Hopper Barges - Upbound

$KE = C_H W V^2/29.2$ (k-ft) AASHTO 3.14.7-1

Where C_H = 1.05 for underkeel clearance exceed 0.5 x draft

or 1.25 for underkeel clearance less than 0.1 x draft

$W = W_T + nW_B$ (tonne)

V = fps

Barge Tow Configuration = 1 wide x 5 long (use 1 wide per AASHTO 3.14.7 due to assumed adjacent barge "break-away")

W= tonne

$a_B = 10.2 * [(1+KE/5672)^{1/2} -1]$ (ft) AASHTO 3.14.12-1

Equiv. Static Barge Impact Force on Pier $P_B = 4112\ a_B$ for $a_B < 0.34$ AASHTO 3.14.11-1

Equiv. Static Barge Impact Force on Pier $P_B = 1349 + 110a_B$ for $a_B >= 0.34$ AASHTO 3.14.11-2

Pier	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Water Depth (ft)	0.0	0.0	20.8	14.8	0.0	
D_E (ft)	1.7	1.7	1.7	1.7	1.7	
W_E (Tonnes)	328	328	328	328	328	one empty barge
W_L (Tonnes)	1680	1680	1680	1680	1680	one loaded barge
D_L (ft)	8.7	8.7	8.7	8.7	8.7	
Underkeel Clear Unloaded (ft)	0.0	0.0	19.1	13.1	0.0	
Underkeel Clear Loaded (ft)	0.0	0.0	12.1	6.1	0.0	
C_H Unloaded	0.00	0.00	1.05	1.05	0.00	
C_H Loaded	0.00	0.00	1.05	1.05	0.00	
W_{BE} (Tonnes) Unloaded	0	0	328	328	0	one empty barge adjusted for depth available for floating vessel
W_{BL} (Tonnes) Loaded	0	0	1680	1680	0	one loaded barge adjusted for depth available for floating vessel
W_{TE} (Tonnes) Unloaded (tow)	0	0	2231	2231	0	5 empty barges plus tow adjusted for floating vessel
W_{TL} (Tonnes) Loaded (tow)	0	0	8991	8991	0	5 loaded barges plus tow adjusted for floating vessel
V (ft/sec)	0.0	0.0	9.5	8.6	0.0	vessel impact velocity
KE (k-ft) Unloaded	0	0	7292	5949	0	vessel collision energy
KE (k-ft) Loaded	0	0	29384	23973	0	vessel collision energy
a_B (ft) Unloaded	0.0	0.0	5.2	4.4	0.0	barge damage length
a_B (ft) Loaded	0.0	0.0	15.2	13.1	0.0	barge damage length
P_B (kips) Unloaded	0	0	1923	1833	0	barge collision force
P_B (kips) Loaded	0	0	3016	2792	0	barge collision force

HNTB	Made by:	NAM	Date	01/19/22	Job Number	63136
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Calculations for:	**I-49 Over the Arkansas River**					

3. Calculate Equivalent Static Barge Impact Force on Pier (Cont' **AASHTO LRFD 3.14.11**

B) Jumbo Hopper Barges - Downbound

$KE = C_H W V^2/29.2$ (k-ft) AASHTO 3.14.7-1

Where C_H = 1.05 for underkeel clearance exceed 0.5 x draft

or 1.25 for underkeel clearance less than 0.1 x draft

$W = W_T + nW_B$ (tonne)

V = fps

Barge Tow Configuration = 1 wide x 5 long (use 1 wide per AASHTO 3.14.7 due to assumed adjacent barge "break-away")

W= tonne

$a_B = 10.2 * [(1+KE/5672)^{1/2} -1]$ (ft) AASHTO 3.14.12-1L

Equiv. Static Barge Impact Force on Pier $P_B = 4112\ a_B$ for $a_B < 0.34$ AASHTO 3.14.11-1

Equiv. Static Barge Impact Force on Pier $P_B = 1349 + 110a_B$ for $a_B >= 0.34$ AASHTO 3.14.11-2

Pier	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Water Depth (ft)	0.0	0.0	20.8	14.8	0.0	
D_E (ft)	1.7	1.7	1.7	1.7	1.7	
W_E (Tonnes)	328	328	328	328	328	one empty barge
W_L (Tonnes)	1680	1680	1680	1680	1680	one loaded barge
D_L (ft)	8.7	8.7	8.7	8.7	8.7	
Underkeel Clear Unloaded (ft)	0.0	0.0	19.1	13.1	0.0	
Underkeel Clear Loaded (ft)	0.0	0.0	12.1	6.1	0.0	
C_H Unloaded	0.00	0.00	1.05	1.05	0.00	
C_H Loaded	0.00	0.00	1.05	1.05	0.00	
W_{BE} (Tonnes) Unloaded	0	0	328	328	0	one empty barge adjusted for depth available for floating vessel
W_{BL} (Tonnes) Loaded	0	0	1680	1680	0	one loaded barge adjusted for depth available for floating vessel
W_{TE} (Tonnes) Unloaded	0	0	2231	2231	0	5 empty barges plus tow adjusted for floating vessel
W_{TL} (Tonnes) Loaded	0	0	8991	8991	0	5 loaded barges plus tow adjusted for floating vessel
V (ft/sec)	0.0	0.0	11.0	10.1	0.0	vessel impact velocity
KE (k-ft) Unloaded	0	0	9708	8148	0	vessel collision energy
KE (k-ft) Loaded	0	0	39121	32835	0	vessel collision energy
a_B (ft) Unloaded	0.0	0.0	6.6	5.7	0.0	barge damage length
a_B (ft) Loaded	0.0	0.0	18.5	16.4	0.0	barge damage length
P_B (kips) Unloaded	0	0	2075	1978	0	barge collision force
P_B (kips) Loaded	0	0	3380	3150	0	barge collision force

HNTB The HNTB Companies	Made by:	NAM	Date	01/19/22	Job Number	63136
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Calculations for:	**I-49 Over the Arkansas River**					

3. Calculate Equivalent Static Barge Impact Force on Pier (Cont' **AASHTO LRFD 3.14.11**

C) Oversize Tank Barges - Upbound

$KE = C_H W V^2/29.2$ (k-ft) AASHTO 3.14.7-1

Where C_H = 1.05 for underkeel clearance exceed 0.5 x draft

or 1.25 for underkeel clearance less than 0.1 x draft

$W = W_T + nW_B$ (tonne)

V = fps

Barge Tow Configuration = 1 wide x 2 long (use 1 wide per AASHTO 3.14.7 due to assumed adjacent barge "break-away")

W= tonne

$a_B = 10.2 * [(1+KE/5672)^{1/2} -1]$ (ft) AASHTO 3.14.12-1L

Equiv. Static Barge Impact Force on Pier $P_B = 4112\ a_B$ for $a_B < 0.34$ AASHTO 3.14.11-1

Equiv. Static Barge Impact Force on Pier $P_B = 1349 + 110a_B$ for $a_B >= 0.34$ AASHTO 3.14.11-2

Pier	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Water Dp (ft)	0.0	0.0	20.8	14.8	0.0	
D_E (ft)	1.7	1.7	1.7	1.7	1.7	
W_E (Tonnes)	739	739	739	739	739	one empty barge
W_L (Tonnes)	3784	3784	3784	3784	3784	one loaded barge
D_L (ft)	8.7	8.7	8.7	8.7	8.7	
Underkeel Clear Unloaded (ft)	0.0	0.0	19.1	13.1	0.0	
Underkeel Clear Loaded (ft)	0.0	0.0	12.1	6.1	0.0	
C_H Unloaded	0.00	0.00	1.05	1.05	0.00	
C_H Loaded	0.00	0.00	1.05	1.05	0.00	
W_B (Tonnes) Unloaded	0	0	739	739	0	one empty barge adjusted for depth available for floating vessel
W_B (Tonnes) Loaded	0	0	3784	3784	0	one loaded barge adjusted for depth available for floating vessel
W (Tonnes) Unloaded	0	0	2068	2068	0	2 empty barges plus tow adjusted for floating vessel
W (Tonnes) Loaded	0	0	8158	8158	0	2 loaded barges plus tow adjusted for floating vessel
V (ft/sec)	0.0	0.0	9.5	8.1	0.0	vessel impact velocity
KE (k-ft) Unloaded	0	0	6760	4825	0	vessel collision energy
KE (k-ft) Loaded	0	0	26661	19028	0	vessel collision energy
a_B (ft) Unloaded	0.0	0.0	4.9	3.7	0.0	barge damage length
a_B (ft) Loaded	0.0	0.0	14.2	11.1	0.0	barge damage length
P_B (kips) Unloaded	0	0	1888	1753	0	barge collision force
P_B (kips) Loaded	0	0	2906	2568	0	barge collision force

HNTB The HNTB Companies	Made by:	NAM	Date	01/19/22	Job Number	63136
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Calculations for:	I-49 Over the Arkansas River					

3. Calculate Equivalent Static Barge Impact Force on Pier (Cont' **AASHTO LRFD 3.14.11**

D) Oversize Tank Barges - Downbound

$KE = C_H W V^2/29.2$ (k-ft) AASHTO 3.14.7-1

Where C_H = 1.05 for underkeel clearance exceed 0.5 x draft

or 1.25 for underkeel clearance less than 0.1 x draft

$W = W_T + nW_B$ (tonne)

V = fps

Barge Tow Configuration = 1 wide x 2 long (use 1 wide per AASHTO 3.14.7 due to assumed adjacent barge "break-away")

W= tonne

$a_B = 10.2 * [(1+KE/5672)^{1/2} -1]$ (ft) AASHTO 3.14.12-1L

Equiv. Static Barge Impact Force on Pier $P_B = 4112\ a_B$ for $a_B < 0.34$ AASHTO 3.14.11-1

Equiv. Static Barge Impact Force on Pier $P_B = 1349 + 110a_B$ for $a_B >= 0.34$ AASHTO 3.14.11-2

Pier	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	
Water Surface Elev. (ft)	375.6	375.6	375.6	375.6	375.6	
Mud Line Elev. (ft)	395.3	388.8	354.8	360.8	388.0	
Water Dp (ft)	0.0	0.0	20.8	14.8	0.0	
D_E (ft)	1.7	1.7	1.7	1.7	1.7	
W_E (Tonnes)	739	739	739	739	739	one empty barge
W_L (Tonnes)	3784	3784	3784	3784	3784	one loaded barge
D_L (ft)	8.7	8.7	8.7	8.7	8.7	
Underkeel Clear Unloaded (ft)	0.0	0.0	19.1	13.1	0.0	
Underkeel Clear Loaded (ft)	0.0	0.0	12.1	6.1	0.0	
C_H Unloaded	0.00	0.00	1.05	1.05	0.00	
C_H Loaded	0.00	0.00	1.05	1.05	0.00	
W_B (Tonnes) Unloaded	0	0	739	739	0	one empty barge adjusted for depth available for floating vessel
W_B (Tonnes) Loaded	0	0	3784	3784	0	one loaded barge adjusted for depth available for floating vessel
W (Tonnes) Unloaded	0	0	2068	2068	0	2 empty barges plus tow adjusted for floating vessel
W (Tonnes) Loaded	0	0	8158	8158	0	2 loaded barges plus tow adjusted for floating vessel
V (ft/sec)	0.0	0.0	11.0	9.5	0.0	vessel impact velocity
KE (k-ft) Unloaded	0	0	9000	6742	0	vessel collision energy
KE (k-ft) Loaded	0	0	35495	26590	0	vessel collision energy
a_B (ft) Unloaded	0.0	0.0	6.2	4.9	0.0	barge damage length
a_B (ft) Loaded	0.0	0.0	17.3	14.1	0.0	barge damage length
P_B (kips) Unloaded	0	0	2032	1887	0	barge collision force
P_B (kips) Loaded	0	0	3250	2903	0	barge collision force

Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Probablity of Collapse (PC) **AASHTO 3.14.5.4**

Pier 1				
Tow	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound
Resistance of Pier, kip (H)=	0	0	0	0
Vessel Impact Force, kip (P)=	0	0	0	0
H/P=	1.0000	1.0000	1.0000	1.0000
PC=	0.00000	0.00000	0.00000	0.00000

Pier 2				
Tow	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound
Resistance of Pier, kip (H)=	0	0	0	0
Impact Force, kip (P)=	0	0	0	0
H/P=	1.0000	1.0000	1.0000	1.0000
PC=	0.00000	0.00000	0.00000	0.00000

Pier 3				
Tow	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound
Resistance of Pier, kip (H)=	3100	3100	3100	3100
Impact Force, kip (P)=	3016	3380	2906	3250
H/P=	1.0277	0.9171	1.0668	0.9539
PC=	0.00000	0.00920	0.00000	0.00511

Pier 4				
Tow	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound
Resistance of Pier, kip (H)=	3100	3100	3100	3100
Impact Force, kip (P)=	2792	3150	2568	2903
H/P=	1.1103	0.9840	1.2070	1.0679
PC=	0.00000	0.00178	0.00000	0.00000

Pier 5				
Tow	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound
Resistance of Pier, kip (H)=	0	0	0	0
Impact Force, kip (P)=	0	0	0	0
H/P=	1.0000	1.0000	1.0000	1.0000
PC=	0.00000	0.00000	0.00000	0.00000

	Min. Design Vessel Collision (kip)		
Pier 1	0		
Pier 2	0	Annual Frequency of Collapse:	0.00006
Pier 3	3100		**OK**
Pier 4	3100		
Pier 5	0		

Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Annual Frequency of Collapse (AF) **AASHTO 3.14.5**

Total: **0.00006**
Max: 0.00010 (per design criteria and AASHTO 3.14.5)
OK

Pier 1

	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound		Sum
AF=	0.00000	0.00000	0.00000	0.00000		
N=	140	95	45	120		
PA=	0.00102	0.00102	0.00102	0.00102		**0.00000**
PG=	0.03587	0.03587	0.02530	0.02530		
PC=	0.00000	0.00000	0.00000	0.00000		

Pier 2

	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound		Sum
AF=	0.00000	0.00000	0.00000	0.00000		
N=	140	95	45	120		
PA=	0.00102	0.00102	0.00102	0.00102		**0.00000**
PG=	0.04013	0.04013	0.03306	0.03306		
PC=	0.00000	0.00000	0.00000	0.00000		

Pier 3

	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound		Sum
AF=	0.00000	0.00004	0.00000	0.00002		
N=	140	95	45	120		
PA=	0.00102	0.00102	0.00102	0.00102		**0.00006**
PG=	0.04013	0.04013	0.03306	0.03306		
PC=	0.00000	0.00920	0.00000	0.00511		

Pier 4

	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound		Sum
AF=	0.00000	0.00001	0.00000	0.00000		
N=	140	95	45	120		
PA=	0.00102	0.00102	0.00102	0.00102		**0.00001**
PG=	0.03440	0.03440	0.02290	0.02290		
PC=	0.00000	0.00178	0.00000	0.00000		

Pier 5

	Jumbo Hopper Upbound	Jumbo Hopper Downbound	Oversize Tank Upbound	Oversize Tank Downbound		Sum
AF=	0.00000	0.00000	0.00000	0.00000		
N=	140	95	45	120		
PA=	0.00102	0.00102	0.00102	0.00102		**0.00000**
PG=	0.02716	0.02716	0.01303	0.01303		
PC=	0.00000	0.00000	0.00000	0.00000		

References: **MAIN CHANNEL PIERS**

Design Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Design Code: *AASHTO Guide Specs & Commentary for Vessel Collision Design of Highway Bridges, 2nd Ed. (2009)

Vessel Collision Study (CV) - Drift Barge Calculation

Design Vessels

Empty Barge

Length =	195.00	ft	*AASHTO Vessel 3.16
Width =	35.00	ft	
Light Draft =	1.70	ft	
Loaded Draft =	8.70	ft	
H_L =	2.00	ft	Head log Height,*AASHTO Figure 3.5.1-1
Depth of Vessel =	13.00	ft	
We =	200	tons	Empty Displacement, *AASHTO Vessel 3.16 (no tow boat etc)
Tonne =	2205	lbs/tonne	
W = We =	181.41	tonne	
V =	9.64	ft/s	Water Current at 100 year event
Water Elevation =	402.39	ft	100-year water elevation
Bottom of Boat =	400.69	ft	
Bottom of Channel Elevation =	354.78	ft	
Underkeel clearance =	45.91	ft	
C_H =	1.05		Hydrodynamic Mass coefficient, *AASHTO Vessel 3.8
KE =	606.19	k*ft	Vessel collision energy
a_B =	0.53	ft	Barge bow damage, *AASHTO Vessel, 3.13
P_B =	1407		Static barge force, *AASHTO Vessel, 3.12
Impact Elevation =	412.69	ft	

Use 1410 kips at Elev. 413.00 for the MAIN CHANNEL PIERS

References: **BANK PIERS 17 & 18**

Design Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Design Code: *AASHTO Guide Specs & Commentary for Vessel Collision Design of Highway Bridges, 2nd Ed. (2009)

Vessel Collision Study (CV) - Drift Barge Calculation

Design Vessels

Empty Barge

Length =	195.00	ft	*AASHTO Vessel 3.16
Width =	35.00	ft	
Light Draft =	1.70	ft	
Loaded Draft =	8.70	ft	
H_L =	2.00	ft	Head log Height, *AASHTO Figure 3.5.1-1
Depth of Vessel =	13.00	ft	
We =	200	tons	Empty Displacement, *AASHTO Vessel 3.16 (no tow boat etc)
Tonne =	2205	lbs/tonne	
W = We =	181.41	tonne	
V =	5	ft/s	Water Current at 100 year event
Water Elevation =	402.39	ft	100-year water elevation
Bottom of Boat =	400.69	ft	
Bottom of Channel Elevation =	399.00	ft	
Underkeel clearance =	1.69	ft	
C_H =	1.05		Hydrodynamic Mass coefficient, *AASHTO Vessel 3.8
KE =	163.08	k*ft	Vessel collision energy
a_B =	0.15	ft	Barge bow damage, *AASHTO Vessel, 3.13
P_B =	599		Static barge force, *AASHTO Vessel, 3.12
Impact Elevation =	412.69	ft	

Use 600 kips at Elev. 413.00 for the BANK PIERS 17 & 18

References: **BANK PIERS (Excluding 17 & 18)**

Design Code: AASHTO LRFD Bridge Design Specs, 9th Ed. (2020)

Design Code: *AASHTO Guide Specs & Commentary for Vessel Collision Design of Highway Bridges, 2nd Ed. (2009)

Vessel Collision Study (CV) - Drift Barge Calculation

Design Vessels

Empty Barge

Length =	195.00	ft	*AASHTO Vessel 3.16
Width =	35.00	ft	
Light Draft =	1.70	ft	
Loaded Draft =	8.70	ft	
H_L =	2.00	ft	Head log Height, *AASHTO Figure 3.5.1-1
Depth of Vessel =	13.00	ft	
We =	200	tons	Empty Displacement, *AASHTO Vessel 3.16 (no tow boat etc)
Tonne =	2205	lbs/tonne	
W = We =	181.41	tonne	
V =	3.53	ft/s	Water Current at 100 year event
Water Elevation =	402.39	ft	100-year water elevation
Bottom of Boat =	400.69	ft	
Bottom of Channel Elevation =	399.00	ft	
Underkeel clearance =	1.69	ft	
C_H =	1.05		Hydrodynamic Mass coefficient, *AASHTO Vessel 3.8
KE =	81.28	k*ft	Vessel collision energy
a_B =	0.07	ft	Barge bow damage, *AASHTO Vessel, 3.13
P_B =	299		Static barge force, *AASHTO Vessel, 3.12
Impact Elevation =	412.69	ft	

Use 300 kips at Elev. 413.00 for the BANK PIERS (Excluding 17 & 18)

Appendix H

Future Channel Depth Increase on the MKARNS

MKARNS Future 12-foot Channel Depth

The United States Army Corps of Engineers (USACE) is planning to deepen the McClellan-Kerr Arkansas River Navigation System channel from 9 feet to 12 feet deep in the coming years. See Appendix 1, 2 & 3. Changing the depth of the channel will allow for heavier barges to navigate the MKARNS. The heavier barges mean a potential increase of force that would be applied to the piers during a vessel collision event. This change would impact every bridge pier on the MKARNS and would need to be studied in the future for the actual vessels that would navigate the river.

The vessel collision report for this project was complete in 2022 prior to the knowledge of this channel modification and followed the *AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020 and AASHTO Guide Specifications and Commentary for Vessel Collision Design of Highway Bridges, Second Edition, with 2010 interims.* The current specifications call for using a 9-foot-deep draft for the jumbo hopper barges to calculate the force of the barge impact. The jumbo hopper barge makes up a large percentage of the actual barges using this stretch of the river. There is only one barge listed in the code that has a draft greater than 9-feet and that is the oversized jumbo hopper barge. The length and width of this vessel is 245 feet long x 35 feet wide with a 10-feet draft. The oversized jumbo hopper barge size, defined as a vessel with a draft greater than 10', is a small percentage of the total number of vessels included in the USACE commercial vessel data from 2005 to 2019 on the Arkansas River at river mile 291.

In addition to the impact to the collision force, the channel will be dredged an additional 3-foot. The I-49 bridge currently has a channel depth of 15 feet from low water pool elevation of 370.00 to the top of the riverbed. No additional excavation would be needed around the piers for the new channel modifications.

The impact the future dredging has on the project is minimal based on current code. The vessel collision force calculation is a risk-based calculation that can be adjusted to fit the owners risk tolerance. It is recommended that when the design codes, actual vessel data or criteria changes, a revised vessel collision force calculation shall be performed to determine the new collision force. The pier can be checked in an extreme event load case for the revised force. If the existing pier is not adequate, a localized pier protection dolphins could be installed to protect the piers.

Appendix 1

News Release Archive

- 2024 (25)
- 2023 (142)
- 2022 (138)
- 2021 (137)
- 2020 (152)
- 2019 (239)
- 2018 (189)
- 2017 (217)
- 2016 (201)
- 2015 (214)
- 2014 (129)
- 2013 (132)
- 2012 (33)

USACE seeks public input on the McClellan-Kerr Arkansas River Navigation System 12-foot Channel Deepening Project

USACE

Published May 30, 2023

PHOTO DETAILS / DOWNLOAD HI-RES **1 of 1**

News Release Images

PRINT | E-MAIL

LITTLE ROCK, Ark. – The U.S. Army Corps of Engineers Little Rock and Tulsa Districts are seeking public input on the MKARNS 12-foot Channel Deepening Project. Public comment for the draft Supplemental Environmental Assessment will be held between June 5 and July 8.

Skip to main content (Press Enter).

to 7 p.m. and June 8 at the Governor Mike Huckabee Delta Rivers Nature Center, 1400 Black Dog Dr., Pine Bluff, AR.

Those interested are encouraged to stop by at any time during the scheduled workshops to leave comments. USACE representatives will be available to answer questions about the project.

The 12-foot Channel Deepening Project will increase the navigation channel to a minimum navigable depth of 12-feet throughout the MKARNS. Deepening the channel will allow the existing inland commercial fleet to sail at deeper drafts that are consistent with those on the Lower Mississippi River. This will allow the commercial fleet to load more cargo onto their barges which will lower transportation costs, benefiting producers and consumers throughout the region and nation.

Roughly $5 billion of goods are moved on the MKARNS annually. By shipping more cargo on the MKARNS versus road or rail, this can aid in the reduction of landside congestion on roads and railways and help to improve air quality since emissions from barges on a ton per mile basis are far less than trucks or rail.

The project will require placing rock structures to scour the channel, dredging the channel and utilizing in-water and upland dredge disposal sites throughout the project area. Additionally, some lock modifications will be needed to accommodate the increase in vessel size that the deepened channel would allow.

Comments must be submitted in writing by July 8 and can be mailed to the U.S. Army Corps of Engineers, ATTN: RPEC-12 ft. Channel, 2000 Fort Point Rd, Galveston, TX 77550 or emailed to CESWL-NAV-MKARNS12FOOTCHANNEL@usace.army.mil.

For an on-line fillable comment card and to learn more about the McClellan-Kerr Arkansas River Navigation System 12-foot Channel Deepening Project, visit our website https://www.swl.usace.army.mil/Missions/Planning/MKARNS-12-foot-Channel/.

--30--

Contact
PAO
501-324-5551
ceswl-pa@usace.army.mil

Release no. 23-054

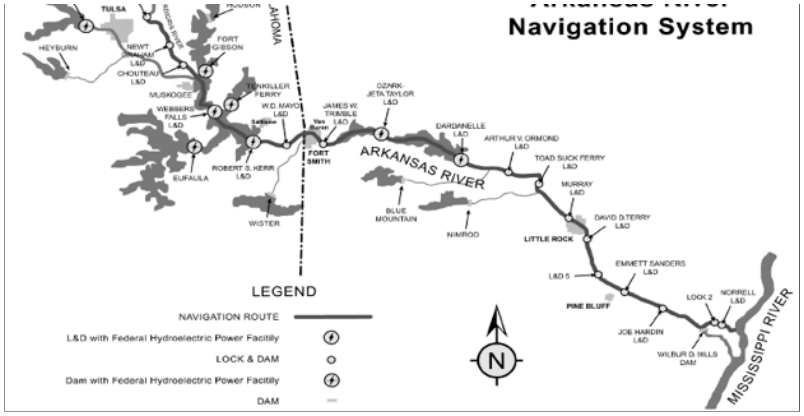
#MKARNS

MKARNS 12-Foot Channel

MKARNS 12-Foot-Channel

With 445-miles of navigation channel, the McClellan-Kerr Arkansas River Navigation System is part of the United States inland waterway system. Originating at the Port of Catoosa in Tulsa and running through Oklahoma and Arkansas to the Mississippi River, the MKARNS provides a minimum nine-foot-deep navigation channel and is considered a "high-use" system that sees 10-11 million tons of cargo each year. This is the equivalent of 437,287 semi-trucks or 109,322 railcars.

The MKARNS 12-foot channel project is part of an effort to improve navigation on the MKARNS by deepening the navigation channel to 12 feet. While this may not seem like a significant change, each additional foot of draft would allow a barge to carry another 200 tons of cargo. With a consistent 12-foot channel, the MKARNS would have the capacity to carry as much as 40-45 million tons.



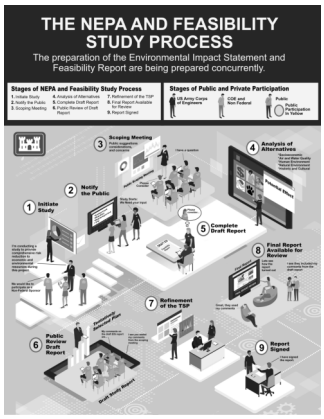
(click above for a fully interactive map of the MKARNS)

MKARNS 2030 Project Delivery Team

The MKANRS 2030 PDT is a multidiscipline team made up of members from the Tulsa and Little Rock Districts of the U.S. Army Corps of Engineers. The goal of the team is to envision and strategically plan for what the MKARNS will look like in the next 10 years. This includes planning for the management of all work associated with the 3-Rivers project, the 12-foot Channel project, execution of annual O&M and special items funding, and the potential Infrastructure Bill funding. The team is focused on efficient regional management of all the upcoming work as a system rather than disparate parts, appropriate surging of the regional/system capabilities to manage the work through 2030, planning for sustainable long-term capabilities to proactively manage maintenance needs after 2030, and a comprehensive communication plan to communicate with all stakeholders to encourage appropriate investment on the MKARNS.

What is NEPA?

The National Environmental Policy Act is our basic national charter for protection of the environment. It is foremost a procedural law that helps ensure that federal decision makers take a hard look at the potential effects of a proposed action and allow the public and other stakeholders to comment on the federal agency's effects analysis and consideration of reasonable alternatives. The NEPA analysis helps these decision makers understand the environmental consequences of the alternatives in comparative form before making a decision. This "hard look" is informed by the public and other stakeholders, starting with a project or study's scoping phase.



*** click the image to enlarge**

The environmental review process that accompanies Corps planning studies and its value to the public are not always easy to understand. Recognizing this, and to help the public and organizations effectively participate in federal agency environmental reviews, the Council on Environmental Quality wrote the informational A Citizen's Guide to the NEPA.

Our Mission

Deliver vital engineering solutions, in collaboration with our partners, to secure our Nation, energize our economy, and reduce disaster risk.

About the Little Rock District Website

Appendix 3

McClellan-Kerr Arkansas River Navigation System, 12-Foot Channel

U.S. ARMY CORPS OF ENGINEERS **BUILDING STRONG®**

FACT SHEET as of 20 April 2012

AUTHORIZATION: Section 136, E&WDAA FY 2004 (PL108-137)

TYPE OF PROJECT: Navigation

PROJECT PHASE: Construction

CONGRESSIONAL INTEREST:
Senators Pryor (AR), Boozman (AR), and Inhofe (OK); Representatives **Crawford (AR-01)**, **Griffin (AR-02), Womack (AR-03)**, **Ross (AR-04)**, **Sullivan (OK-01)**, and **Boren (OK-02)**

NON-FEDERAL SPONSOR: N/A

BACKGROUND: The 445-mile long McClellan-Kerr Arkansas River Navigation System (MKARNS) consists of 18 locks and dams, and provides 9-foot depth inland navigation from the Mississippi River to Catoosa, Oklahoma. This project would deepen the navigation channel to a minimum depth of 12 feet throughout the MKARNS. This increase in depth would result in a shipper savings of $43,100,000 million annually, compared to the next least costly mode of transportation, making the system more competitive with similar waterway systems and other modes of transportation. Additionally, increased tonnage on the system would decrease the commodities transported by rail and truck, thus decreasing pollutants and damage to the country's infrastructure.

STATUS: Operation and Maintenance (O&M) funds appropriated in FY 2005 have been expended. The project is considered a "new start" and Construction funds must be appropriated prior to initiating any new work. In addition, the MKARNS is an inland waterway, subject to the collection of fuel taxes for the Inland Waterway Trust Fund (IWTF); therefore, construction activities must be cost shared (50/50) with the trust fund for construction of the 12-ft channel. No additional work will be done on this project until it is funded with Construction funds and cost shared from the IWTF. The total project cost estimate is approximately $183,000,000; however, the work can be accomplished in $10,000,000 increments.

ISSUES: None.

FINANCIAL SUMMARY ($):	**CONSTRUCTION**
Federal Cost Estimate	$ 91,673,000
Non-Federal Cost Estimate (IWTF)	$ 91,673,000
Total Project Cost	$183,346,000
Allocation thru FY 2010	0
ARRA Funding	0
Allocation for FY 2011	0
Allocation for FY 2012	0
President Budget FY 2013	0
Amount That Could Be Used in FY 2013	$ 20,000,000
Balance to Complete	$ 91,673,000

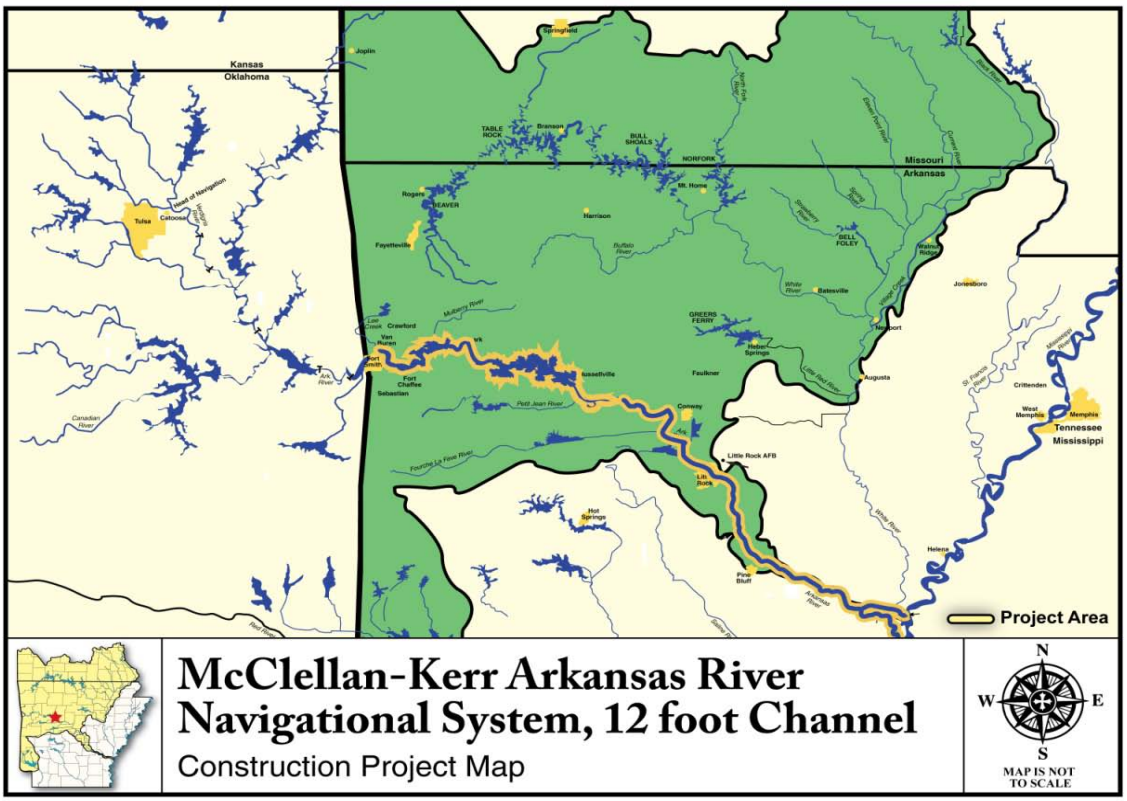
SCHEDULE:

FY 2012 Scheduled Work: Project is not included in the President's FY 2012 budget.

FY 2013 Budget: Project is not included in the President's FY 2013 budget. Funds in the amount of $20,000,000 could be used to raise and extend dikes and notch revetments; design and construct pits; dredging; and design and construct disposal areas.

COMPLETION: With optimum funding, the project completion date is 2018.

For more information regarding the McClellan-Kerr Arkansas River Navigation System, 12-Foot Channel project, contact: Mr. Glenn R. Proffitt, P.E., Project Manager, Programs and Project Management Division, at (501) 340-1068 or Glenn.R.Proffitt@usace.army.mil.



Section 408 Summary Report

Appendix B5

Navigation Clearance Report

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

HNTB Corporation
The HNTB Companies
Infrastructure Solutions

715 Kirk Drive
Kansas City, MO 64105

Telephone (816) 472-1201
hntb.com

HNTB

Rick Ellis, PE
Division Head - Bridge
Arkansas Department of Transportation (ARDOT)
10324 Interstate 30
PO Box 2261
Little Rock, AR 72203-2261
Email: charles.ellis@ardot.gov

December 10, 2021

Subject: Proposed I-49 Highway Bridge, Mile 291.6 Arkansas River 16591.1/291.6 ARR
ARDOT Job 040748 – HWY 22 to I-40 (Future I-49) – Horizontal Navigation Clearance

Dear Rick -

This letter will serve as the official request to modify the horizontal navigation clearance proposed by the United States Coast Guard (USCG) for the new I-49 bridge over the Arkansas River near River Mile 291.6. The request is based on results of a navigation simulation study performed by the Seamen's Church Institute (SCI) from October 11-13, 2021, see Attachment 1. SCI is a known safety advocate and training expert in the river navigation industry. Based on the results of the study, a 400-foot horizontal navigation clearance measured from Point A is proposed and is shown in Attachment 2. The bank pier will be placed so the left face of the right descending pier will be located at Point B. As coordination continues with other agencies, the piers will be placed entirely outside the clearance envelope shown in Attachment 2.

The USCG issued a letter dated February 21, 2018, see Attachment 3, regarding the minimum horizontal navigation clearance. The USCG letter specifies the horizontal clearance be "at least 500 feet between the face of the left descending channel pier and the right descending bank, measured perpendicular to the axis of the channel. The right descending channel pier must be located out of the water on the right descending bank." The horizontal clearance specified in the letter is 200 feet more than the nearby bridges.

The horizontal clearance of the bridges upstream and downstream of the project as shown in the USACE June 2016 navigation charts are as follows:

- Highway 64/Garrison Ave. Bridge (Mile 308.4) = 300 ft (near right descending bank)
- Van Buren Railroad Bridge (Mile 300.8) = 312 ft (near center of river)
- Highway 64 & 71 Bridge (Mile 300.4) = 300 ft (near center of river)
- Interstate 540 Bridge (Mile 299.6) = 300 ft (near left descending bank)
- Trimble Lock and Dam (Mile 292.8) = 110 ft wide x 600-ft long (near right descending bank)
- State Hwy 23 Bridge = (Mile 258.2) = 353 ft (near left descending bank)

- Highway 109/Clarksville Highway Bridge (Mile 234.8) = 400 ft (near left descending bank)

On March 1, 2021, a meeting between USCG, ARDOT and HNTB occurred where the horizontal navigation clearance was discussed. See Attachment 4 for final meeting minutes. The key topics discussed included the following.

- USCG requested the horizontal clearance of 500 feet be measured at the normal pool elevation of 370.00 rather than the 2% flowline.
- USCG would entertain the results of a navigation study using computer simulations performed by SCI.
- One-way or two-way traffic was discussed as the meeting and no determination was made.

On June 28, 2021, a meeting between USCG, ARDOT, HNTB and SCI was held, and the meeting minutes are included in Attachment 5. The key topics discussed included the following.

- USCG stated that regardless of the simulation results, the minimum navigation clearance will be no less than 400 feet measured from normal pool elevation of 370.00 and the bank.
- Three navigational flows will be used in the study.
    - Low Flow: Q=20,000 cfs, Elev.=373.47, velocity = 1.24 ft/s
    - Medium Flow: Q=50,000 cfs, Elev.=376.83, velocity = 2.52 ft/s
    - High Flow: Q=100,000 cfs, Elev. 382.83, velocity = 3.78 ft/s
- A 15-barge tow will be used for the study and arranged 3 wide by 5 long.

The SCI navigation study was performed October 11-13, 2021 and the report is included in Attachment 1. The study started with plans to test three horizontal navigational clearances measured at the intersection of the normal pool elevation of 370.00 and the bank (Point A, as shown in Attachment 2). Those horizontal clearance lengths were 400 feet, 435 feet and 500 feet.

Two additional clearance lengths of 350 feet and 415 feet were added during the on-site simulations. The 350-foot clearance was added to see if the clearance could be safely decreased. The pilots provided feedback during the testing that they would feel more comfortable if the bank pier was out of the water at the high flow situations in case a controlled landing was needed. A new horizontal clearance of 415 feet was created and included the bank pier at the intersection of the high flow elevation and the bank (Point B, as shown in Attachment 2). This group of runs moved the bank pier 20 feet south, so the pier was out of the water at the high flow situation.

The study concludes that the 350-foot navigation span is not safe as it places a pier in the existing navigation channel. A horizontal clearance of 400 feet and above provides for the reasonable needs of navigation. The quantitative scores for each of the clearances shows negligible difference for the 400-foot, 415-foot and the 435-foot simulations. There is a slight rise in the scores for the 415-foot clearance and it was the only clearance tested with the bank pier out of the water for the high flow condition.

The pilots indicated that the downbound, high flow situations were the most challenging to navigate. The vertical difference in water elevation from the normal pool to the high flow event is 12.83 feet which

increased the horizontal navigation clearance. At the high flow elevation, the horizontal navigational clearance is +/- 420 feet measured from Point B as shown in Attachment 2. Similarly, the horizontal navigational clearance for the medium flow elevation is +/-410 feet.

Based on the results of the study, a 400-foot horizontal navigation clearance measured from Point A is proposed. The bank pier will be placed so the left face of the right descending pier will be located at Point B. As coordination continues with other agencies, the piers will be placed entirely outside the clearance envelope shown in Attachment 2.

As documented in the study, the pilots indicated that the navigation in this area is considered one-way. One-way traffic will be used in the vessel collision calculations and report.

Please let me know if you would like to discuss this proposal at any time. I can be reached at 816-527-2173 or by email, nmccombs@hntb.com.

Best regards,

Natalie McCombs

Natalie McCombs, PE, SE, ENV SP
HNTB Associate Fellow

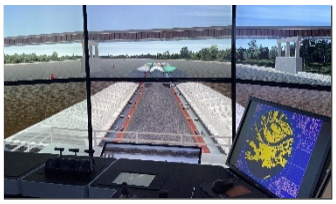
Attachment 1- 040748_I-49_Arkansas River Bridge Project Navigational Safety Feasibility Study.pdf
Attachment 2 - 040748_I-49_Navigational Clearance Envelope.pdf
Attachment 3 - 040748_I-49_USCG_001_Navigational Clearance.pdf
Attachment 4 - 040748_I-49_2021.0301 Meeting Minutes_Final.pdf
Attachment 5 - 040748_I-49_2021.0628 Meeting Minutes_Final.pdf

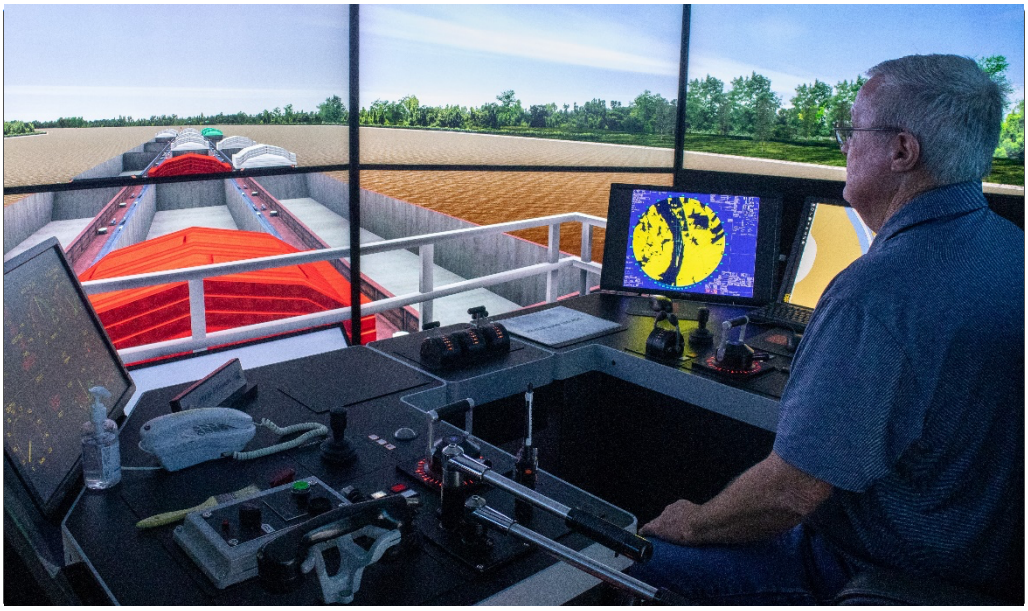
Attachment 1

I-49 Arkansas River Bridge Project

Navigational Safety Feasibility Study

Job #040748 TO 161 - Future I-49, Hwy 22 to I-40 - Arkansas River





THE SEAMEN'S CHURCH INSTITUTE

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Introduction

Study Name	I-49 Arkansas River Bridge Project Navigational Safety Feasibility Study
Project Location	Barling, AR. Arkansas River mm 291
Purpose	Assess the impact to navigational safety as result of building a bridge over the Arkansas River.
Customer	HNTB Corporation / ARDOT
Vendor	Seamen's Church Institute of NY and NJ 50 Broadway Floor 26 New York, NY 10004
CME Contact	Center for Maritime Education 129 S Water Street Paducah, KY 42001 John Arenstam T: (270) 575-1005 F: (270) 575- 9152 JArenstam@seamenschurch.org
Release Date	November 10, 2021
Project Lead	John Arenstam, Asst. Director, Center for Maritime Education - Paducah
Authorized Signature	Captain Stephen Polk, CME Director

Legal Disclaimer

With respect to the Seamen's Church Institute (SCI) simulator, databases, and models used for this study, the inspection, review, accuracy, and acceptance is validated by the customer and the participants prior to the study. SCI cannot accept liability for the findings, conclusions, or recommendations provided by the participants in this simulation study, nor can SCI be responsible for errors within data provided by the clients, or third parties used for programming of the simulator, hydrodynamic models, and databases. Key to any successful simulation is the accuracy of the data programmed into the simulator. SCI creates its simulations based upon information provided and approved by the client. The quality of this data has an impact on the accuracy of these test results.

Specific information regarding CAD drawings, hydrodynamic modeling information and Kongsberg simulator log files are maintained at SCI and are available upon request.

Definitions and terms

Hooked up – The engines are running at full ahead

AtoN – Aids to Navigation

RD – Right Descending referring to the pier

LD – Left Descending referring to the pier

RDS/ RDB – Right descending shore/bank

LDS/LDB – Left descending shore/bank

MTY – Empty barges

LD – Loaded barges

S/B – Vessel traveling in a Southbound direction, also down river - downbound

N/B – Vessel traveling in a Northbound direction, also upriver – upbound

Hold up – Remain stationary in the river.

Slide – The sideways or lateral movement of a vessel when steering a sharp bend.

Process

In March of 2021 HNTB Corporation (HNTB) approached the Seamen's Church Institute Center for Maritime Education (CME) proposing the development of a navigational simulation to assess the impact of building a bridge near mm 291.6 on the McClellan-Kerr Navigation System (Arkansas River) just downstream of the Trimble Lock & Dam.

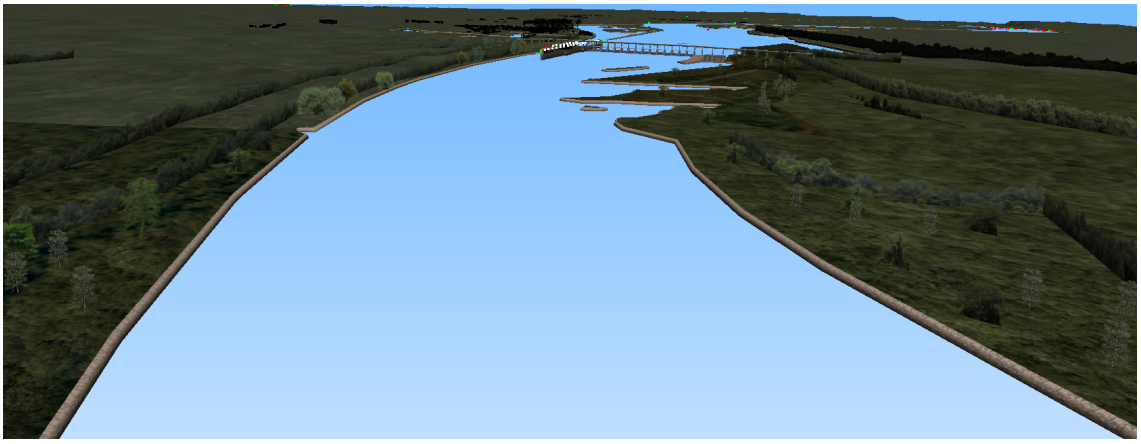
The proposed river crossing will be part of the Arkansas DOT project to expand I-49 from I-40 near Alma to Highway 22 in Barling, AR.

The overall objective of the navigational feasibility study is to identify, assess, and recommend the location of bridge piers for the navigational channel span of the bridge to HNTB. This information regarding the navigational span will assist HNTB with their design and decision-making during the regulatory permitting process. The information will ensure that the proposed navigational span of the bridge provides for the reasonable needs of navigation.

Database Development

The visual database portion of the I-49 study consists of several components, including a 3D virtual environment of the area in addition to correlated files controlling the depth, radar image, and a map used by the instructor station for an overview of what is occurring in the simulation.

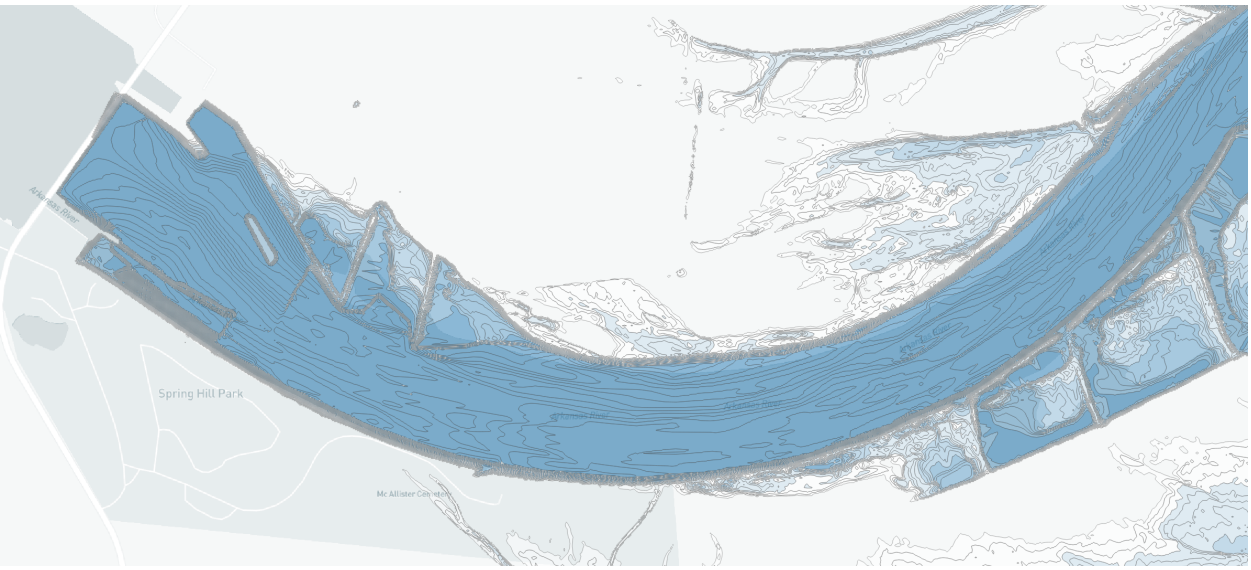
Development of the 3D Virtual Environment began on July 7, 2021, with a site survey to collect photographic data of the area. This reference material was used to develop the visual model. Kongsberg Maritime's Database Area Generator was used to create a base area using a U.S. Army Corps of Engineers (USACE) chart and an elevation file based upon digital elevation map data supplied by HNTB. The resulting data included 3D landmass and aids to navigation (AtoN) locations, radar, and instructor map files.



Virtual 3D Model of the MKARNS Waterway

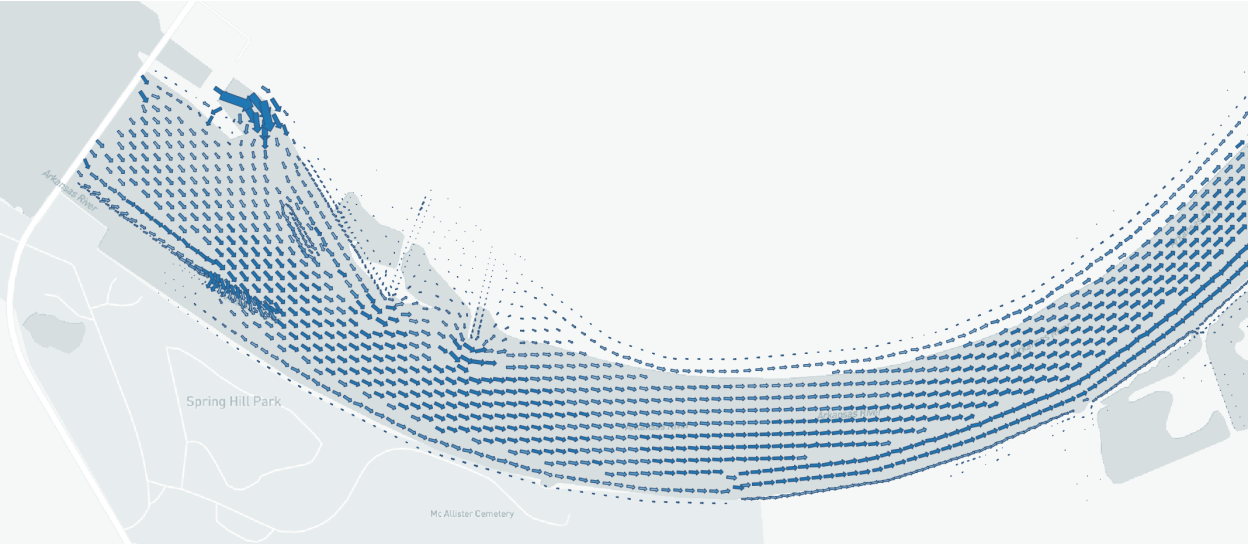
The landmass file was further developed in 3D modeling software to create a more realistic portrayal of the environment. Additional cultural features were added. These features included: vegetation, the John A Trimble Lock with functional doors, and lighting. AtoN were modified to more accurately reflect the AtoN established by the U.S. Coast Guard (USCG) on the Arkansas river and oriented to face their proper direction.

HNTB provided SCI with files containing proposed pier locations, hydraulics, bathymetric data, and projection information on June 3, 2021. The supplied bathymetric data came in the form of a Geo-Tiff Raster Image, which required conversion into vector contour lines. The contours were then triangulated into a 3D mesh for use with the simulator.



Contour lines generated from depth data

The flow conditions were selected by SCI, to mimic the range of possible navigation operating conditions of: low, medium, and high (20,000; 50,000; 100,000 cfs flow rates respectively), and HNTB used a 2D HEC-RAS model to determine velocity vectors. These velocity vectors were created by HNTB in a current modeling software by their hydro team and supplied to SCI in the form of a CSV file.



Current flow vectors imported from hydro data

The CSV file was imported into GIS software, to visualize and validate the data. Once validated by the SCI staff, it was converted to the Explicit Tidal Diamond (ETD) format utilized by the simulator via a python script. The staff was then able to open the current files on the simulator for further internal testing, external evaluation, and validation.

The proposed bridges were built for the simulation as "Target Models" which are interactive elements for the simulator that can be placed, moved, and controlled as needed by the simulator operators. Construction drawings for the various bridge layouts were supplied to SCI on 30 June 2021. The drawings depicted the horizontal navigation clearance, as defined by the USCG, measured from the intersection of the normal pool elevation of 370.00 ft and the RDB to the face of the left descending pier. Static bridge targets with navigation lights were constructed based upon those drawings. A target was created in the Kongsberg system for both the 400' and 500' navigational channel span alignments. An additional set of target models was created for a bridge deck with a pier at the water line, and a separate movable pier. These were created for use in any simulation to test additional navigational channel span widths needed. These could be placed at specific lat/lon locations as necessary to test additional situations.

Database validation checks were made on 08 September 2021. SCI Paducah staff and professional mariners performed tests and validation of the database, models, current flow, and exercises to be used for the study. All participants noted that the visual database, models, and current flow conditions accurately reflected the conditions at the site. According to Captain Gene Deaton, "the slide felt like it should". Adjustments to the starting locations for the runs were made. The pilots indicated that in this narrow section of the river, a prudent pilot would not operate a 15-barge tow in 20 mph winds. They would hold up and wait for better conditions. The maximum wind speed variable was adjusted down to 10 mph to reflect the maximum wind speed most prudent mariners would still operate. The pilots confirmed there is not two-way traffic from at least mile marker 288 to the lock. According to the pilots, there was not a large difference in running the exercise in daytime and night. However, all agreed both the day and night scenarios should remain on the run matrix. The current velocities and directions, provided from HNTB, were determined to accurately model all three flow conditions (low, medium, high). The pilots concurred that above 100,000 cfs tow size would be reduced. At the end of the model valuation, the pilots concurred that the run matrix reflected the best representation of the challenges that are faced when navigating in the area.

The following entities were represented:

American Commercial Barge Lines
Captain Trico Shelton

Kirby Corporation
Captain Gene Deaton

Canal Barge Company
Captain Jim Turner

HNTB Corporation
Natalie McCombs

Seamen's Church Institute
John Arenstam
Buck Viniard
Kelly Butts
Captain Stephen Polk
Matthew Hyner

Development of Simulator Exercise Matrix and Study Objectives

A matrix of the exercises to be run, was carefully crafted, reviewed, and refined to include those exercise conditions that would best cover the simulation study objectives, which include:

1. Identify recommendations on "best practices" for bridge transits in various river conditions (370' – pool, 373.47' – 20,000/cfs, 376.83' – 50,000/cfs, 382.83' – 100,000/cfs);
2. Identify, assess, and recommend the location of bridge piers for the proposed navigational channel span of the proposed bridge to assist with regulatory permitting process.
3. Identify and recommend any channel improvements for traffic flow and safe transits for all vessels, including possible AtoN placement, etc;
4. Make recommendations on "best practices" for two-way traffic flow in the vicinity of the bridge.
5. Make recommendations on "best practices" for the closest hold up spot for upbound traffic in the vicinity of the bridge.

The variables considered in the development of the run matrix included:

Vessel Types – Two models were used but both were tows pushing 15 barges. One was with 15 loaded barges and the other was with 15 empty barges. The towboat for both models was the same.

Pilot cards for the vessels used in the study are in Appendix C.

Navigation Direction: – During the testing and external verification phase at CME on 08 September 2021, it was determined that the study would have a down bound starting point that was just outside of James W. Trimble Lock and Dam 13, mm 292.8. This position represents where all tows would be located just after departing the lock. The up bound starting point was established to balance the need for the mariners to have adequate time and space from the proposed bridge location to make navigational decisions with the duration of the model runs.

River Current Conditions – Current models were provided by HNTB. They represented three different flow rates being discharged at Lock 13. The low flow condition correlated with a 20,000 cfs discharge rate. This corresponds with a water surface elevation (WSE) of 373.47 ft above sea level. The medium flow condition correlated with a 50,000 cfs discharge rate. This corresponds with a WSE of 376.83 ft above sea level. The high flow condition correlated with a 100,000 cfs discharge rate. This corresponds with a WSE of 382.83 ft above sea level.

Wind Condition – Wind was another variable used within the matrix, Northwest by West wind of 20 mph was used during the external model validation and testing. The feedback from the pilots was that for this narrow channel a prudent mariner would not operate a tow with 15 empties in that weather condition. The velocity was lowered to 10 mph and direction remain unchanged at 310.

Lighting Condition – During the model validation and testing, the pilots expressed the opinion that daylight or darkness did not significantly change the navigational complexity of operating in this area. A decision was made to randomize the lighting conditions during the feasibility study and have some of the simulations occur in daylight and the others occur in darker conditions.

Simulation Run Matrix

To document the precise conditions encountered during each simulation exercise; the team designed a matrix of run parameters. The sample shown below is for the 400 ft navigational clearance and includes the first 24 runs considered. This matrix outlines the various conditions tested, vessel types, sizes, wind, and tidal flows. The run matrix was designed to best capture and test each variable and understand the various navigational safety requirements.

I49 - Arkansas River Bridge Project

NAVIGATION SIMULATION RUN MATRIX

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day
1		400 ft	Low	Up	15 L	0 mph	Night
2	8	400 ft	Low	Up	15 L	10 MPH	Day
3		400 ft	Low	Up	15 E	0 mph	Night
4		400 ft	Low	Up	15 E	10 MPH	Day
5		400 ft	Low	Down	15 L	0 mph	Day
6	17	400 ft	Low	Down	15 L	10 MPH	Night
7	37	400 ft	Low	Down	15 E	0 mph	Night
8	20	400 ft	Low	Down	15 E	10 MPH	Night
9		400 ft	Med	Up	15 L	0 mph	Day
10		400 ft	Med	Up	15 L	10 MPH	Day
11		400 ft	Med	Up	15 E	0 mph	Day
12		400 ft	Med	Up	15 E	10 MPH	Night
13	9	400 ft	Med	Down	15 L	0 mph	Day
14	25	400 ft	Med	Down	15 L	10 MPH	Day
15		400 ft	Med	Down	15 E	0 mph	Day
16	23	400 ft	Med	Down	15 E	10 MPH	Night
17		400 ft	High	Up	15 L	0 mph	Day
18	21	400 ft	High	Up	15 L	10 MPH	Night
19		400 ft	High	Up	15 E	0 mph	Day
20	11	400 ft	High	Up	15 E	10 MPH	Day
21		400 ft	High	Down	15 L	0 mph	Day
22	18	400 ft	High	Down	15 L	10 MPH	Day
23		400 ft	High	Down	15 E	0 mph	Day
24	24	400 ft	High	Down	15 E	10 MPH	Day

Initial matrix runs 1 to 24

The study plan was to run each simulation in the matrix once, with the possibility of some runs being performed multiple times either due to complexity, challenge, or simply providing multiple pilots an opportunity to conduct it for themselves. The full matrix of the initial 72 runs considered is included in Appendix B.

Simulation Preparation, External Testing, and Validation

Each simulator exercise was configured in accordance with the run matrix parameters agreed upon during external testing period. SCI expected each upbound simulation to last approximately 15 to 20 minutes, with the downbound simulations running about 10 to15 minutes. Immediately following each simulation, participants would be given standard questions (run survey) to summarize their thoughts on that scenario.

Simulation process & sequence of events

Participants

For the Simulation Phase the project team assembled in Paducah, KY at the CME facility, from October 11 through 13, 2021. The following entities were represented during this session:

• HNTB Corporation	Design Engineer
• U.S. Coast Guard Bridge Administration	Governing agency
• American River Transportation Company	Pilot
• American Commercial Barge Lines	Pilot
• Canal Barge	Pilot
• Kirby Corporation	Pilot
• Southern Towing	Pilot
• Seamen's Church Institute	Study administrator

Sequence of events

On commencement of the simulation phase of the project the participants of the study arrived at CME where they filled out pilot questionnaires, CME staff explained the run matrix, as well as the expected timeline of events. The team assembled in the briefing room, a facility safety brief and introductions were conducted. The HNTB project manager provided a project overview briefing for all participating in the study. CME explained the objectives of the study, the process of how the study was to be conducted, along with the pier arrangements, vessel configurations, and environmental conditions.

A basic outline of the variables involved in the run matrix was conducted. Once CME had the order of simulations to be performed, a pilothouse orientation was conducted. We began with 2 runs as a familiarization simulation which allows mariners to become familiar with operational aspects of the simulator and the specifics of the vessels being operated.

The initial group of runs that were conducted corresponded with a navigation span horizontal clearance of 500 ft. After these initial 7 runs, a randomization of the variables was selected to lessen the opportunity for navigational bias to creep into the run survey results. This methodology was chosen to allow the pilots to become familiar with the handling characteristics of these towing vessels, yet still allowed for a more accurate comparison between the options being studied.

Data collection Process

After each simulator run attempt from the matrix, the participants documented their findings on detailed surveys. This process for data collection occurs after each simulation and is uploaded in real-time. Below is a sample of the run survey used. Copies of the original and completed survey data can be found in Appendix E.

SCI planned to perform all runs within the run matrix by close of business Wednesday, leaving time on Thursday to perform special exercises, or requests from the mariners, engineers, or USCG.

Sample Run Evaluation form

I 49 Arkansas River Bridge Project

Run Evaluation Form

Pilot # _____ Run # _____
Date _____

Horizontal Clearance: _____ ft
Current: High /Medium/ Low
Direction: Downbound/Upbound.
Barges: Empties / Loads

Circle the number that best describes the run just completed.

1. Rate the maneuvering room in the navigation span:
   1 being you did not have enough room and 5 being you had significant room

Not enough Room		Enough Room		Significant Room
1	2	3	4	5

If maneuvering room is rated below 3, why?

_____
_____
_____

2. Rate the overall navigational safety of this pier alignment:

Unsafe		Safe		Extremely Safe
1	2	3	4	5

If overall navigational safety is rated below 3, why?

_____

3. Rate the overall navigational difficulty of this pier alignment

Extremely Difficult				Not at all Difficult
1	2	3	4	5

If overall navigational difficulty is rated below 3, why?

_____
_____
_____
_____
_____
_____

4. Will this bridge pier alignment require additional Aids to Navigation?

Yes/No

If additional AtoN are needed, where and how many?

_____
_____
_____
_____

5. Will this pier alignment allow for two-way traffic?

Yes/No

6. Will this pier alignment cause an unreasonable impact on traffic/hold up points?

Yes/No

If yes, why will this pier alignment cause an unreasonable impact on traffic/hold up points?

_____
_____
_____
_____
_____
_____

7. What is challenging about this pier alignment?

_____
_____
_____
_____
_____
_____
_____

8. What is best about this pier alignment?

_____
_____
_____
_____
_____
_____
_____

9. Additional Comments

_____
_____
_____
_____
_____
_____
_____
_____

Day one

Completed 13 runs and conducted daily wrap up meeting. The captains expressed concern over heading southbound with loaded barges during a high flow event. Under these conditions it will get more difficult to navigate. A medium current flow, 50,000 cfs at night with empties is tough. If you go too slow or don't have enough power, you won't win in fight with current.

The captains requested that the buoys be reset to reflect the needed change once the bridge is built into the simulation. CME adjusted the buoy files to account for the various buoy positions requested. A red buoy was placed above and below the left descending pier for each remaining simulation.

Day two

A mid-day meeting was held to discuss if a 350 ft navigational span should be tested. The group decided definitely "yes". During the lunch break the 350 ft navigational span scenarios were built. The feedback we received from the pilots during testing, indicated they would feel more comfortable with the RDB pier completely out of the water for the high flow event. This would require moving the bank pier 20 ft south of the current location. A new group of simulations was assembled to get the RD pier at the high flow elevation (as defined in the report) and the LD pier 415 ft from the intersection of the normal pool elevation and the RDB. Runs 73 to 82 were added to the matrix and are shown in Appendix B.

Completed 16 runs and conducted a daily wrap up meeting.

The captains stated that there is not any 2-way traffic in this stretch of the river even without the proposed bridge. The captains had a discussion regarding the minimum horizontal clearance that would be acceptable. The range of opinions was between 400, 415 and 435 feet. A consensus was not reached, but there was unanimous agreement that 350 feet was too tight on the one run that was performed that day.

It was agreed that on day three, more tests with a horizontal clearance of 350 ft should be tested, as well as more of the original run matrix, to complete the study.

Day three

Completed the remaining 13 runs as outlined during the debrief the previous day. During the mid-day break, a discussion was held regarding the need for any additional testing past the 42 runs currently planned. It was agreed by all that there was not a need for additional simulations.

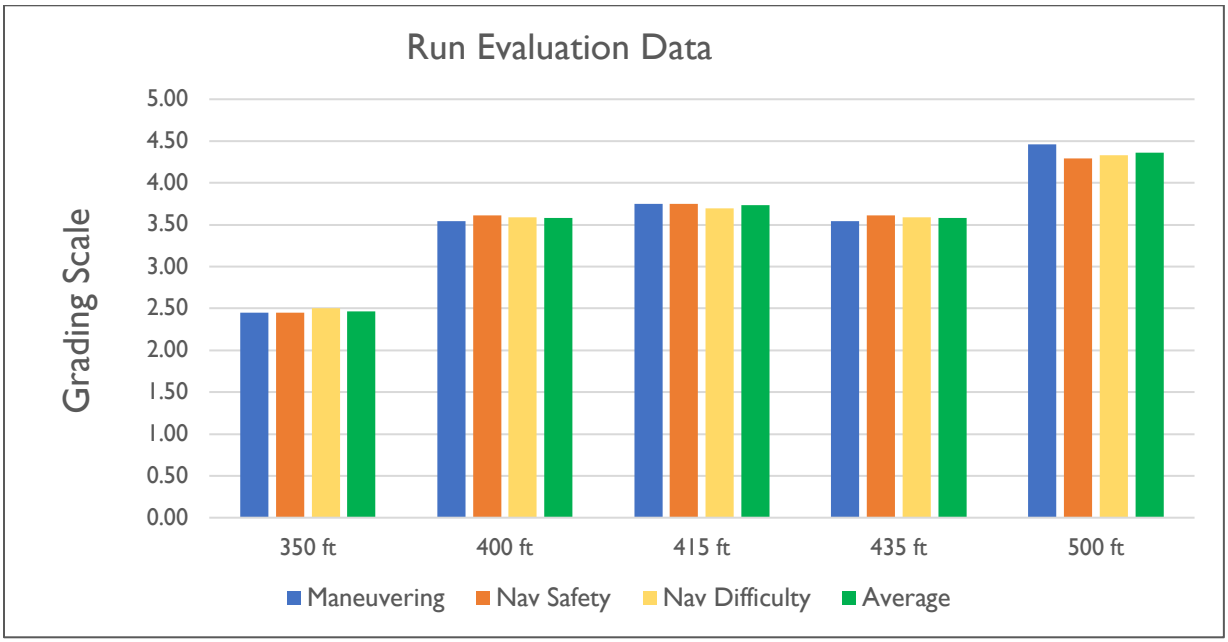
At the end of the day a debrief was held to discuss the days runs and to collect final observations. The captains discussed that 350 ft navigational span was not a good idea. The captains did not have a unanimous agreement on the best choice for a width between 400-435. All the Captains did agree that a navigational span width somewhere between 400-435 ft would provide for the reasonable needs of navigation. All captains had a unanimous agreement that a 500 ft navigational span would provide the greatest risk reduction of the 5 horizontal clearances studied.

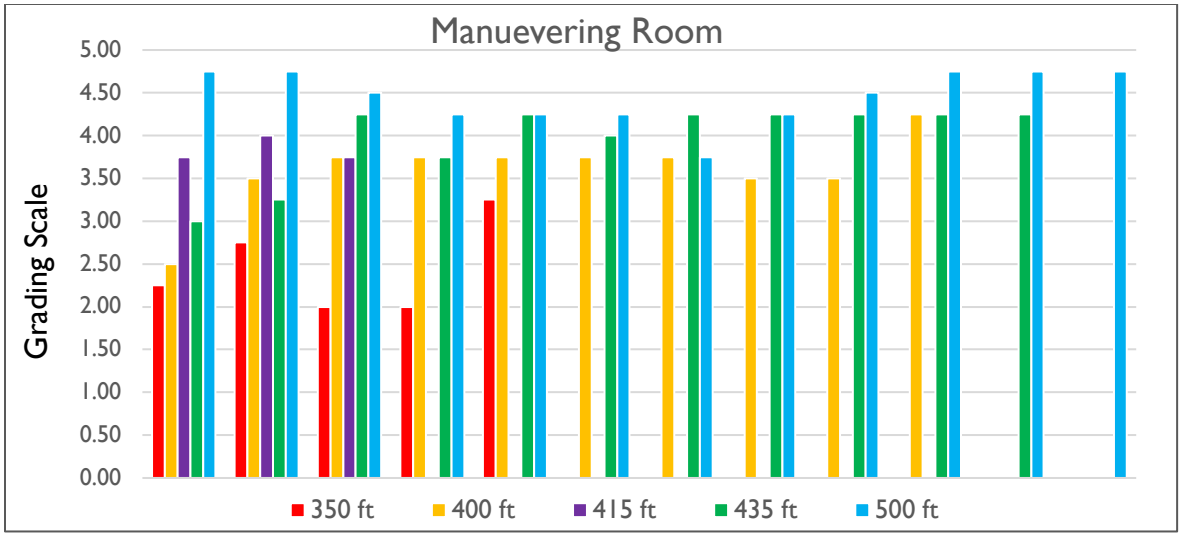
During the debrief, all participants concurred that additional simulations were not required and that the study would conclude after three days.

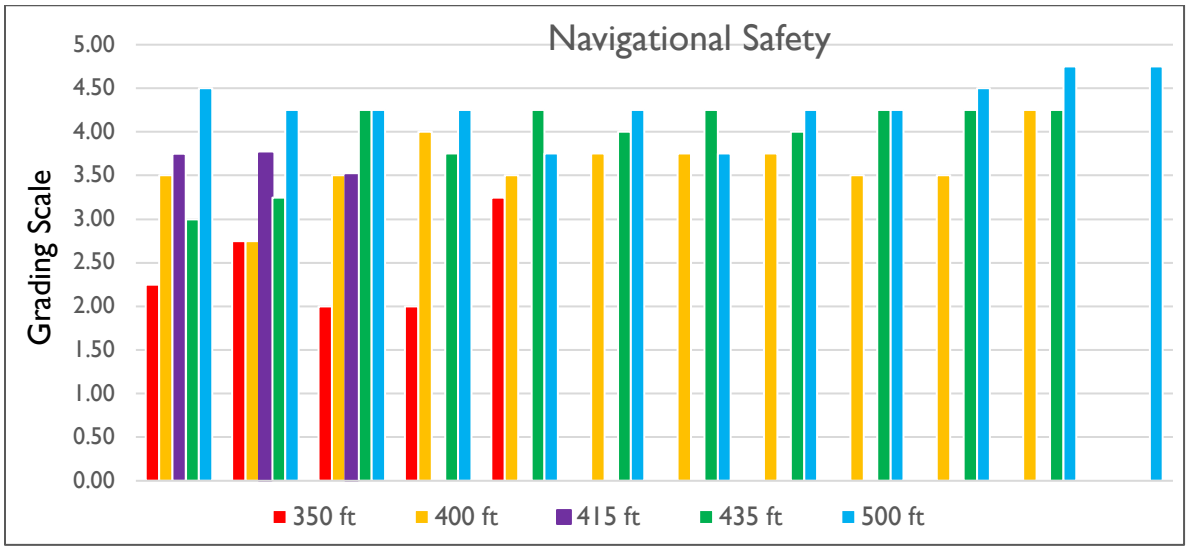
Results

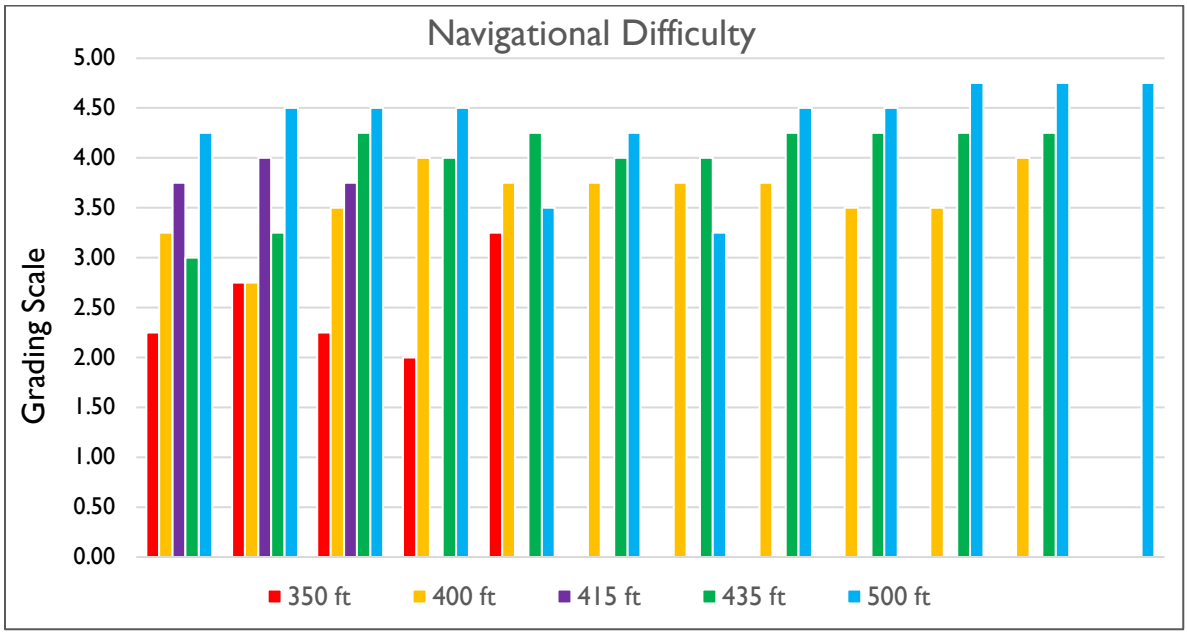
Below is a summary of the data captured from the run evaluation forms.

The 415 ft span shows a slightly higher rating. This run moved the right descending bank pier 20 feet to the south. All other runs left the right descending pier at the intersection of the normal pool elevation and the bank.




Manuevering Room
Grading Scale
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
350 ft
400 ft
415 ft
435 ft
500 ft


Navigational Safety
Grading Scale
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
350 ft
400 ft
415 ft
435 ft
500 ft


Navigational Difficulty
Grading Scale
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
350 ft
400 ft
415 ft
435 ft
500 ft

Conclusions and Recommendations

Conclusions

1. The results cluster around three groupings, 350 feet, from 400 to 435 feet, and 500 feet
2. As the horizontal clearance increased from the 350 feet grouping, the data and the comments clearly indicate a decreasing level of risk. The runs with a horizontal clearance of 350 ft, averaged 2.50 or below.
3. There does not appear to be any significant statistical difference between the three options within the 400-to-435-foot grouping and would provide for the reasonable needs of navigation.
4. A navigational span with a horizontal clearance of 500 feet would provide the greatest risk reduction of the five horizontal clearances studied.
5. Moving the right descending pier out of the water at the high flow elevation reduces the risk and increases safety for the mariners.
6. Two-way traffic flow is not possible in the vicinity of the proposed bridge, for any of the widths tested.
7. No change to the holdup locations for upbound traffic as a result any of the navigational span widths tested.
8. There is very little room for error or misalignment with the 350 ft span. This is especially critical while transiting downbound in periods of increased flow. A mariner must balance the need to keep the angle to stay off the pier and yet pull off to avoid being set onto the right descending bank.

Recommendations

1. A navigational span with a horizontal clearance 350 feet would be a significant impediment to navigation and should not be considered.
2. A navigational span with a horizontal clearance of 400 feet or greater would provide for the reasonable needs of navigation.
3. Move the right descending pier up the bank to a position where it is out of the water at high flow conditions.
4. The waterways action plan should be reviewed for any necessary changes, especially regarding wind speed and tow size/hp requirements.
5. Positioning of Aids to Navigation should be adjusted to be aligned with the bridge pier once built.

Appendix A

APPENDIX A

I-49 Arkansas River Bridge Project Feasibility Study

– Project Attendees & Representation

ARTCO

Captain David Weaver

ACBL

Captain Adam Nunally

Canal Barge

Captain Mike Coley

Kirby Corporation

Captain Larry Adams

Southern Towing

Captain Mark Murphy
Captain Joe Goodell

HNTB Corporation

Natalie McCombs
Brent Jones

USCG Bridge Administration

Allan Monterroza
Rob Mccaskey

Seamen's Church Institute

Captain Ernest "Ray" Sexton
John Arenstam
William Viniard
Kelly Butts
Captain Stephen Polk
Captain Thomas Chivers

Appendix B

Appendix B

I49 - Arkansas River Bridge Project

NAVIGATION SIMULATION RUN MATRIX

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Comments	Omit
1		400 ft	Low	Up	15 L	0 mph	Night		x
2	8	400 ft	Low	Up	15 L	10 MPH	Day		
3		400 ft	Low	Up	15 E	0 mph	Night		x
4		400 ft	Low	Up	15 E	10 MPH	Day		x
5		400 ft	Low	Down	15 L	0 mph	Day		x
6	17	400 ft	Low	Down	15 L	10 MPH	Night		
7	37	400 ft	Low	Down	15 E	0 mph	Night		
8	20	400 ft	Low	Down	15 E	10 MPH	Night		
9		400 ft	Med	Up	15 L	0 mph	Day		x
10		400 ft	Med	Up	15 L	10 MPH	Day		x
11		400 ft	Med	Up	15 E	0 mph	Day		x
12		400 ft	Med	Up	15 E	10 MPH	Night		x
13	9	400 ft	Med	Down	15 L	0 mph	Day		
14	25	400 ft	Med	Down	15 L	10 MPH	Day		
15		400 ft	Med	Down	15 E	0 mph	Day		x
16	23	400 ft	Med	Down	15 E	10 MPH	Night		
17		400 ft	High	Up	15 L	0 mph	Day		x
18	21	400 ft	High	Up	15 L	10 MPH	Night		
19		400 ft	High	Up	15 E	0 mph	Day		x
20	11	400 ft	High	Up	15 E	10 MPH	Day		
21		400 ft	High	Down	15 L	0 mph	Day		x
22	18	400 ft	High	Down	15 L	10 MPH	Day		
23		400 ft	High	Down	15 E	0 mph	Day		x
24	24	400 ft	High	Down	15 E	10 MPH	Day		

I49 - Arkansas River Bridge Project

NAVIGATION SIMULATION RUN MATRIX

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Comments	Omit
25	1	500 ft	Low	Up	15 L	0 mph	Day		
26		500 ft	Low	Up	15 L	10 MPH	Day		x
27		500 ft	Low	Up	15 E	0 mph	Day		x
28	2	500 ft	Low	Up	15 E	10 MPH	Day		
29	13	500 ft	Low	Down	15 L	0 mph	Day		
30		500 ft	Low	Down	15 L	10 MPH	Day		x
31		500 ft	Low	Down	15 E	0 mph	Day		x
32	38	500 ft	Low	Down	15 E	10 MPH	Day		
33	4	500 ft	Med	Up	15 L	0 mph	Night		
34		500 ft	Med	Up	15 L	10 MPH	Day		x
35		500 ft	Med	Up	15 E	0 mph	Day		x
36	3	500 ft	Med	Up	15 E	10 MPH	Day		
37		500 ft	Med	Down	15 L	0 mph	Day		x
38	30	500 ft	Med	Down	15 L	10 MPH	Day		
39		500 ft	Med	Down	15 E	0 mph	Day		x
40	5	500 ft	Med	Down	15 E	10 MPH	Day		
41		500 ft	High	Up	15 L	0 mph	Day		x
42	39	500 ft	High	Up	15 L	10 MPH	Day		
43		500 ft	High	Up	15 E	0 mph	Night		x
44	6	500 ft	High	Up	15 E	10 MPH	Day		
45	7	500 ft	High	Down	15 L	0 mph	Day		
46		500 ft	High	Down	15 L	10 MPH	Day		x
47		500 ft	High	Down	15 E	0 mph	Day		x
48	16	500 ft	High	Down	15 E	10 MPH	Day		

I49 - Arkansas River Bridge Project

NAVIGATION SIMULATION RUN MATRIX

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Comments	Omit
49	14	435 ft	Low	Up	15 L	0 mph	Day	width may be adjusted based upon information collected from previous runs	
50		435 ft	Low	Up	15 L	10 MPH	Day		x
51		435 ft	Low	Up	15 E	0 mph	Night		x
52		435 ft	Low	Up	15 E	10 MPH	Day		x
53	12	435 ft	Low	Down	15 L	0 mph	Day		
54		435 ft	Low	Down	15 L	10 MPH	Day		x
55		435 ft	Low	Down	15 E	0 mph	Day		x
56	15	435 ft	Low	Down	15 E	10 MPH	Day		
57		435 ft	Med	Up	15 L	0 mph	Day		x
58		435 ft	Med	Up	15 L	10 MPH	Day		x
59		435 ft	Med	Up	15 E	0 mph	Night		x
60	19	435 ft	Med	Up	15 E	10 MPH	Day		
61	31	435 ft	Med	Down	15 L	0 mph	Day		
62	35	435 ft	Med	Down	15 L	10 MPH	Day		
63		435 ft	Med	Down	15 E	0 mph	Day		x
64	10	435 ft	Med	Down	15 E	10 MPH	Night		
65		435 ft	High	Up	15 L	0 mph	Night		x
66	22	435 ft	High	Up	15 L	10 MPH	Night		
67		435 ft	High	Up	15 E	0 mph	Day		x
68	42	435 ft	High	Up	15 E	10 MPH	Day		
69		435 ft	High	Down	15 L	0 mph	Day		x
70	34	435 ft	High	Down	15 L	10 MPH	Day		
71		435 ft	High	Down	15 E	0 mph	Night		x
72	36	435 ft	High	Down	15 E	10 MPH	Day		
73	26	350 ft	Med	Down	15 L	0 mph	Night		
74	27	350 ft	Med	UP	15 E	10 MPH	Day		
75	33	350 ft	High	Down	15 L	0 mph	Night		
76		350 ft	High	Up	15 E	10 MPH	Day		x
77	40	350 ft	Low	Down	15 L	0 mph	Night		
78	41	350 ft	Low	UP	15 E	10 MPH	Day		
79	28	415 ft	Med	Down	15 L	0 mph	Night		
80	29	415 ft	Low	Down	15 L	10 MPH	Night		
81	32	415 ft	High	Down	15 L	0 mph	Day		

Eliminate the following runs:

Downbound Loads 1/2 with wind and 1/2 without wind in all three current conditions (wind not much effect on loads so either 0 or 10 mph should be relatively similar in difficultiy level)

Downbound/Upbound Empties with no wind in all three conditions, (if can do it with 10 MPH then even easier with no wind) 18 runs

Appendix C

PILOT CARD

TUGBA14XV3
Version 3

Ship's name _____

Call Sign _____ **Deadweight** 0 tonnes **Year built** _____

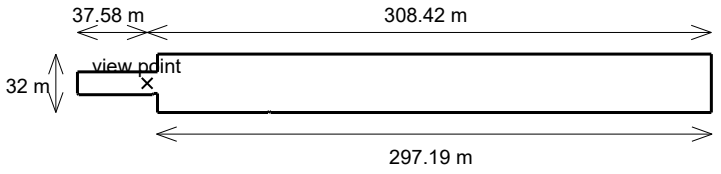
Draught aft 2.896 m / 9 ft 6 in **Forward** 2.74 m / 8 ft 12 in **Displacement** 25630 tonnes

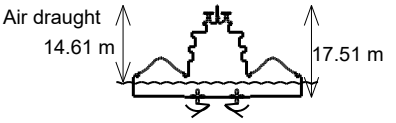
SHIP'S PARTICULARS

Length overall 346 m **Anchor chain: Port** _____ shackles **Starboard** _____ shackles

Breadth 32 m

Bulbous bow No **(1 shackle = 27.432 m = 15 fathoms)**





PROPULSION PARTICULARS

Type of engine Diesel **Maximum power** 4119 kW (5600 hp)

Manoeuvring engine order		RPM	Pitch	Speed (knots)	
				Loaded	XLoaded
Full sea speed	**1**	216.0	N/A	N/A	8.3
Full Ahead	**0.8**	184.9	N/A	N/A	7.1
Half Ahead	**0.5**	138.3	N/A	N/A	5.3
Slow Ahead	**0.25**	99.4	N/A	N/A	3.8
Dead Slow Ahead	**0.125**	80.0	N/A	N/A	3.1
Dead Slow Astern	**-0.125**	-80.0	N/A		
Slow Astern	**-0.25**	-99.4	N/A		
Half Astern	**-0.5**	-138.3	N/A		
Full Astern	**-1**	-216.0	N/A		

PILOT CARD

TUGBA42B
Version 2

Ship's name Lee Ann Ingram Pushing MPT 5L3W

Call Sign WDB8152 **Deadweight** 0 tonnes **Year built** 1980

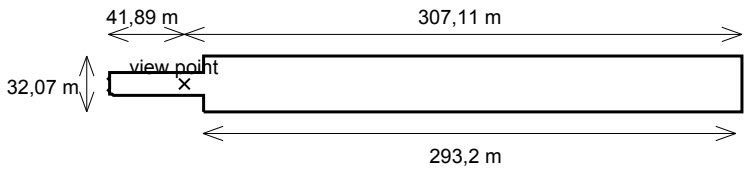
Draught aft 2.464 m / 8 ft 1 in **Forward** 0.457 m / 1 ft 6 in **Displacement** 4558 tonnes

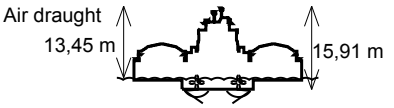
SHIP'S PARTICULARS

Length overall 349 m **Anchor chain: Port** _____ shackles **Starboard** _____ shackles

Breadth 32.07 m

Bulbous bow No **(1 shackle = 27,432 m = 15 fathoms)**





PROPULSION PARTICULARS

Type of engine Diesel **Maximum power** 4516 kW (6140 hp)

Manoeuvring engine order		RPM	Pitch	Speed (knots)	
				Loaded	Ballast
Full sea speed	**1**	207.1	N/A	N/A	10.4
Full Ahead	**0.8**	204.1	N/A	N/A	10.2
Half Ahead	**0.5**	156.6	N/A	N/A	7.7
Slow Ahead	**0.25**	116.0	N/A	N/A	5.6
Dead Slow Ahead	**0.125**	92.8	N/A	N/A	4.4
Dead Slow Astern	**-0.125**	-92.8	N/A		
Slow Astern	**-0.25**	-116.0	N/A		
Half Astern	**-0.5**	-156.6	N/A		
Full Astern	**-1**	-204.1	N/A		

Appendix D

APPENDIX D

PILOT QUESTIONNAIRE

NAME: Thomas Chivers - pilot1

1. How long have you been working on the river?
   37yrs

2. How many years have you been in the pilothouse?
   30 years

3. What areas of the river do you primarily run?
   Upper Miss; Ohio; Arkansas, Illinois, lower miss, Tennessee, Cumberland

4. How familiar are you with area being modeled / simulated in this project?

Familiar

5. What company do you currently work for?
   Seamens Church

APPENDIX D

PILOT QUESTIONNAIRE

NAME: Joe Goodell - pilot2

1. How long have you been working on the river?
   36 years

2. How many years have you been in the pilothouse?
   35 years

3. What areas of the river do you primarily run?
   Ark, LMR,UMR, ILL, OHR,CUMB, TNR, Vertigris

4. How familiar are you with area being modeled / simulated in this project?

Very familiar, spent many years working on this directness of river.

5. What company do you currently work for?
   Southern Towing Company

APPENDIX D

PILOT QUESTIONNAIRE

NAME: Mike Coley - pilot3

1. How long have you been working on the river?
   48 Years

2. How many years have you been in the pilothouse?
   45 years

3. What areas of the river do you primarily run?
   Most Inland Waters excepting Mo. Mostly ICWW/ LMR/ UMR.

4. How familiar are you with area being modeled / simulated in this project?

I broke in on the Arkansas but it's been years.

5. What company do you currently work for?
   Canal Barge Co.

APPENDIX D

PILOT QUESTIONNAIRE

NAME: David Weaver - pilot4

1. How long have you been working on the river?
   17 years

2. How many years have you been in the pilothouse?
   13 years

3. What areas of the river do you primarily run?
   Upper Mississippi Illinois Ohio

4. How familiar are you with area being modeled / simulated in this project?

Not familiar

5. What company do you currently work for?
   ARTCO

APPENDIX D

PILOT QUESTIONNAIRE

NAME: Larr Adams - pilot5

1. How long have you been working on the river?
   30 years

2. How many years have you been in the pilothouse?
   25 years

3. What areas of the river do you primarily run?
   All inland and western rivers.

4. How familiar are you with area being modeled / simulated in this project?

I live 60 miles south of the site, I hunt and fish this entire area for 30+ years.

5. What company do you currently work for?
   Kirby Inland

APPENDIX D

PILOT QUESTIONNAIRE

NAME: Adam Nunally - pilot6

1. How long have you been working on the river?
   16 years

2. How many years have you been in the pilothouse?
   10 years

3. What areas of the river do you primarily run?
   Lower Mississippi Upper Miss STL to CairoOhio RiverIllinois River

4. How familiar are you with area being modeled / simulated in this project?

0.05

5. What company do you currently work for?
   ACBL

Appendix E

Appendix E

I 49 Arkansas River Bridge Project
Run Evaluation Form

Pilot # _____ Run # _____ Date _____

Horizontal Clearance: _____ ft
Current: High /Medium/ Low
Direction: Downbound/Upbound.
Barges: Empties / Loads

Circle the number that best describes the run just completed.

1. Rate the maneuvering room in the navigation span:
   1 being you did not have enough room and 5 being you had significant room

Not enough Room		**Enough Room**		**Significant Room**
1	**2**	**3**	**4**	**5**

If maneuvering room is rated below 3, why?

_____
_____
_____

2. Rate the overall navigational safety of this pier alignment:

Unsafe		**Safe**		**Extremely Safe**
1	**2**	**3**	**4**	**5**

If overall navigational safety is rated below 3, why?

_____
_____
_____

Appendix E

3. Rate the overall navigational difficulty of this pier alignment

Extremely Difficult				**Not at all Difficult**
1	**2**	**3**	**4**	**5**

If overall navigational difficulty is rated below 3, why?

_____
_____
_____

4. Will this bridge pier alignment require additional Aids to Navigation?

Yes/No

If additional AtoN are needed, where and how many?

_____
_____

5. Will this pier alignment allow for two-way traffic?

Yes/No

6. Will this pier alignment cause an unreasonable impact on traffic/hold up points?

Yes/No

If yes, why will this pier alignment cause an unreasonable impact on traffic/hold up points?

_____
_____
_____
_____

7. What is challenging about this pier alignment?

_____
_____
_____
_____
_____

8. What is best about this pier alignment?

_____
_____
_____
_____
_____
_____

9. Additional Comments

_____
_____
_____
_____
_____
_____

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by run order number

Matrix Run Number	Run Order Number	Date	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
25	1	11-Oct	500 ft	Low	Up	15 L	0 mph	Day	4.75	4.50	4.25
28	2	11-Oct	500 ft	Low	Up	15 E	10 MPH	Day	4.75	4.25	4.50
36	3	11-Oct	500 ft	Med	Up	15 E	10 MPH	Day	4.50	4.25	4.50
33	4	11-Oct	500 ft	Med	Up	15 L	0 mph	Night	4.25	4.25	4.50
40	5	11-Oct	500 ft	Med	Down	15 E	10 MPH	Day	4.25	3.75	3.50
44	6	11-Oct	500 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
45	7	11-Oct	500 ft	High	Down	15 L	0 mph	Day	3.75	3.75	3.25
2	8	11-Oct	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
13	9	11-Oct	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
64	10	11-Oct	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
20	11	11-Oct	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
53	12	11-Oct	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
29	13	11-Oct	500 ft	Low	Down	15 L	0 mph	Day	4.25	4.25	4.50
49	14	12-Oct	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
56	15	12-Oct	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
48	16	12-Oct	500 ft	High	Down	15 E	10 MPH	Day	4.50	4.25	4.50
6	17	12-Oct	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
22	18	12-Oct	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
60	19	12-Oct	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
8	20	12-Oct	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	12-Oct	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
66	22	12-Oct	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
16	23	12-Oct	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
24	24	12-Oct	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	12-Oct	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
73	26	12-Oct	350 ft	Med	Down	15 L	0 mph	Night	2.25	2.25	2.25
74	27	12-Oct	350 ft	Med	UP	15 E	10 MPH	Day	2.75	2.75	2.75
79	28	12-Oct	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
80	29	12-Oct	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
38	30	13-Oct	500 ft	Med	Down	15 L	10 MPH	Day	4.75	4.50	4.75
61	31	13-Oct	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
81	32	13-Oct	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
75	33	13-Oct	350 ft	High	Down	15 L	0 mph	Night	2.00	2.00	2.25
70	34	13-Oct	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
62	35	13-Oct	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	13-Oct	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
7	37	13-Oct	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
32	38	13-Oct	500 ft	Low	Down	15 E	10 MPH	Day	4.75	4.75	4.75
42	39	13-Oct	500 ft	High	Up	15 L	10 MPH	Day	4.75	4.75	4.75
77	40	13-Oct	350 ft	Low	Down	15 L	0 mph	Night	2.00	2.00	2.00
78	41	13-Oct	350 ft	Low	UP	15 E	10 MPH	Day	3.25	3.25	3.25
68	42	13-Oct	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by navigational span width

Matrix Run Number	Run Order Number	Date	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
73	26	12-Oct	350 ft	Med	Down	15 L	0 mph	Night	2.25	2.25	2.25
74	27	12-Oct	350 ft	Med	UP	15 E	10 MPH	Day	2.75	2.75	2.75
75	33	13-Oct	350 ft	High	Down	15 L	0 mph	Night	2.00	2.00	2.25
77	40	13-Oct	350 ft	Low	Down	15 L	0 mph	Night	2.00	2.00	2.00
78	41	13-Oct	350 ft	Low	UP	15 E	10 MPH	Day	3.25	3.25	3.25
2	8	11-Oct	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
13	9	11-Oct	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
20	11	11-Oct	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
6	17	12-Oct	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
22	18	12-Oct	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
8	20	12-Oct	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	12-Oct	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
16	23	12-Oct	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
24	24	12-Oct	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	12-Oct	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
7	37	13-Oct	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
79	28	12-Oct	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
80	29	12-Oct	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
81	32	13-Oct	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
64	10	11-Oct	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
53	12	11-Oct	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
49	14	12-Oct	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
56	15	12-Oct	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
60	19	12-Oct	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
66	22	12-Oct	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
61	31	13-Oct	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
70	34	13-Oct	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
62	35	13-Oct	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	13-Oct	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
68	42	13-Oct	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
25	1	11-Oct	500 ft	Low	Up	15 L	0 mph	Day	4.75	4.50	4.25
28	2	11-Oct	500 ft	Low	Up	15 E	10 MPH	Day	4.75	4.25	4.50
36	3	11-Oct	500 ft	Med	Up	15 E	10 MPH	Day	4.50	4.25	4.50
33	4	11-Oct	500 ft	Med	Up	15 L	0 mph	Night	4.25	4.25	4.50
40	5	11-Oct	500 ft	Med	Down	15 E	10 MPH	Day	4.25	3.75	3.50
44	6	11-Oct	500 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
45	7	11-Oct	500 ft	High	Down	15 L	0 mph	Day	3.75	3.75	3.25
29	13	11-Oct	500 ft	Low	Down	15 L	0 mph	Day	4.25	4.25	4.50
48	16	12-Oct	500 ft	High	Down	15 E	10 MPH	Day	4.50	4.25	4.50
38	30	13-Oct	500 ft	Med	Down	15 L	10 MPH	Day	4.75	4.50	4.75
32	38	13-Oct	500 ft	Low	Down	15 E	10 MPH	Day	4.75	4.75	4.75
42	39	13-Oct	500 ft	High	Up	15 L	10 MPH	Day	4.75	4.75	4.75

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by navigational span width

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
73	26	350 ft	Med	Down	15 L	0 mph	Night	2.25	2.25	2.25
74	27	350 ft	Med	UP	15 E	10 MPH	Day	2.75	2.75	2.75
75	33	350 ft	High	Down	15 L	0 mph	Night	2.00	2.00	2.25
77	40	350 ft	Low	Down	15 L	0 mph	Night	2.00	2.00	2.00
78	41	350 ft	Low	UP	15 E	10 MPH	Day	3.25	3.25	3.25
2	8	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
13	9	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
20	11	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
6	17	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
22	18	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
8	20	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
16	23	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
24	24	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
7	37	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
79	28	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
80	29	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
81	32	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
64	10	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
53	12	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
49	14	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
56	15	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
60	19	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
66	22	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
61	31	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
70	34	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
62	35	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
68	42	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
25	1	500 ft	Low	Up	15 L	0 mph	Day	4.75	4.50	4.25
28	2	500 ft	Low	Up	15 E	10 MPH	Day	4.75	4.25	4.50
36	3	500 ft	Med	Up	15 E	10 MPH	Day	4.50	4.25	4.50
33	4	500 ft	Med	Up	15 L	0 mph	Night	4.25	4.25	4.50
40	5	500 ft	Med	Down	15 E	10 MPH	Day	4.25	3.75	3.50
44	6	500 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
45	7	500 ft	High	Down	15 L	0 mph	Day	3.75	3.75	3.25
29	13	500 ft	Low	Down	15 L	0 mph	Day	4.25	4.25	4.50
48	16	500 ft	High	Down	15 E	10 MPH	Day	4.50	4.25	4.50
38	30	500 ft	Med	Down	15 L	10 MPH	Day	4.75	4.50	4.75
32	38	500 ft	Low	Down	15 E	10 MPH	Day	4.75	4.75	4.75
42	39	500 ft	High	Up	15 L	10 MPH	Day	4.75	4.75	4.75
							Average	2.45	2.45	2.50

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by navigational span width

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
2	8	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
13	9	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
20	11	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
6	17	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
22	18	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
8	20	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
16	23	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
24	24	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
7	37	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
							Average	3.55	3.61	3.59

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by navigational span width - 415 ft

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
79	28	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
80	29	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
81	32	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
							Average	3.83	3.67	3.83

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by navigational span width - 435 ft

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
64	10	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
53	12	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
49	14	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
56	15	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
60	19	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
66	22	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
61	31	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
70	34	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
62	35	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
68	42	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
							Average	3.98	3.95	3.98

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by navigational span width

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
73	26	350 ft	Med	Down	15 L	0 mph	Night	2.25	2.25	2.25
74	27	350 ft	Med	UP	15 E	10 MPH	Day	2.75	2.75	2.75
75	33	350 ft	High	Down	15 L	0 mph	Night	2.00	2.00	2.25
77	40	350 ft	Low	Down	15 L	0 mph	Night	2.00	2.00	2.00
78	41	350 ft	Low	UP	15 E	10 MPH	Day	3.25	3.25	3.25
2	8	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
13	9	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
20	11	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
6	17	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
22	18	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
8	20	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
16	23	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
24	24	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
7	37	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
79	28	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
80	29	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
81	32	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
64	10	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
53	12	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
49	14	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
56	15	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
60	19	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
66	22	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
61	31	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
70	34	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
62	35	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
68	42	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
25	1	500 ft	Low	Up	15 L	0 mph	Day	4.75	4.50	4.25
28	2	500 ft	Low	Up	15 E	10 MPH	Day	4.75	4.25	4.50
36	3	500 ft	Med	Up	15 E	10 MPH	Day	4.50	4.25	4.50
33	4	500 ft	Med	Up	15 L	0 mph	Night	4.25	4.25	4.50
40	5	500 ft	Med	Down	15 E	10 MPH	Day	4.25	3.75	3.50
44	6	500 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
45	7	500 ft	High	Down	15 L	0 mph	Day	3.75	3.75	3.25
29	13	500 ft	Low	Down	15 L	0 mph	Day	4.25	4.25	4.50
48	16	500 ft	High	Down	15 E	10 MPH	Day	4.50	4.25	4.50
38	30	500 ft	Med	Down	15 L	10 MPH	Day	4.75	4.50	4.75
32	38	500 ft	Low	Down	15 E	10 MPH	Day	4.75	4.75	4.75
42	39	500 ft	High	Up	15 L	10 MPH	Day	4.75	4.75	4.75
							Average	4.46	4.29	4.33

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by Question 1 from lowest to highest

Rate the maneuvering room in the navigation span:

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
77	40	350 ft	Low	Down	15 L	0 mph	Night	2.00	2.00	2.00
73	26	350 ft	Med	Down	15 L	0 mph	Night	2.25	2.25	2.25
75	33	350 ft	High	Down	15 L	0 mph	Night	2.00	2.00	2.25
74	27	350 ft	Med	UP	15 E	10 MPH	Day	2.75	2.75	2.75
13	9	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
64	10	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
78	41	350 ft	Low	UP	15 E	10 MPH	Day	3.25	3.25	3.25
2	8	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
53	12	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
45	7	500 ft	High	Down	15 L	0 mph	Day	3.75	3.75	3.25
20	11	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
24	24	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
40	5	500 ft	Med	Down	15 E	10 MPH	Day	4.25	3.75	3.50
22	18	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
8	20	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
16	23	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
79	28	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
81	32	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
6	17	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
7	37	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
80	29	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
56	15	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
66	22	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
61	31	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
49	14	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
60	19	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
70	34	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
62	35	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
68	42	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
25	1	500 ft	Low	Up	15 L	0 mph	Day	4.75	4.50	4.25
44	6	500 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
28	2	500 ft	Low	Up	15 E	10 MPH	Day	4.75	4.25	4.50
36	3	500 ft	Med	Up	15 E	10 MPH	Day	4.50	4.25	4.50
33	4	500 ft	Med	Up	15 L	0 mph	Night	4.25	4.25	4.50
29	13	500 ft	Low	Down	15 L	0 mph	Day	4.25	4.25	4.50
48	16	500 ft	High	Down	15 E	10 MPH	Day	4.50	4.25	4.50
38	30	500 ft	Med	Down	15 L	10 MPH	Day	4.75	4.50	4.75
32	38	500 ft	Low	Down	15 E	10 MPH	Day	4.75	4.75	4.75
42	39	500 ft	High	Up	15 L	10 MPH	Day	4.75	4.75	4.75
							Average	3.81	3.76	3.79

Appendix E
Navigation Simulation Run Scoresheet and Graphs

I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by Question 2 from lowest to highest
Rate the overall navigational safety of this pier alignment

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
77	40	350 ft	Low	Down	15 L	0 mph	Night	2.00	2.00	2.00
75	33	350 ft	High	Down	15 L	0 mph	Night	2.00	2.00	2.25
73	26	350 ft	Med	Down	15 L	0 mph	Night	2.25	2.25	2.25
74	27	350 ft	Med	UP	15 E	10 MPH	Day	2.75	2.75	2.75
13	9	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
64	10	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
78	41	350 ft	Low	UP	15 E	10 MPH	Day	3.25	3.25	3.25
53	12	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
2	8	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
20	11	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
24	24	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
22	18	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
81	32	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
8	20	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
16	23	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
79	28	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
80	29	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
56	15	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
45	7	500 ft	High	Down	15 L	0 mph	Day	3.75	3.75	3.25
40	5	500 ft	Med	Down	15 E	10 MPH	Day	4.25	3.75	3.50
6	17	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
66	22	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
70	34	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
7	37	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
61	31	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
49	14	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
60	19	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
62	35	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
68	42	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
44	6	500 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
28	2	500 ft	Low	Up	15 E	10 MPH	Day	4.75	4.25	4.50
36	3	500 ft	Med	Up	15 E	10 MPH	Day	4.50	4.25	4.50
33	4	500 ft	Med	Up	15 L	0 mph	Night	4.25	4.25	4.50
29	13	500 ft	Low	Down	15 L	0 mph	Day	4.25	4.25	4.50
48	16	500 ft	High	Down	15 E	10 MPH	Day	4.50	4.25	4.50
25	1	500 ft	Low	Up	15 L	0 mph	Day	4.75	4.50	4.25
38	30	500 ft	Med	Down	15 L	10 MPH	Day	4.75	4.50	4.75
32	38	500 ft	Low	Down	15 E	10 MPH	Day	4.75	4.75	4.75
42	39	500 ft	High	Up	15 L	10 MPH	Day	4.75	4.75	4.75
							Average	3.81	3.76	3.79

Appendix E
Navigation Simulation Run Scoresheet and Graphs

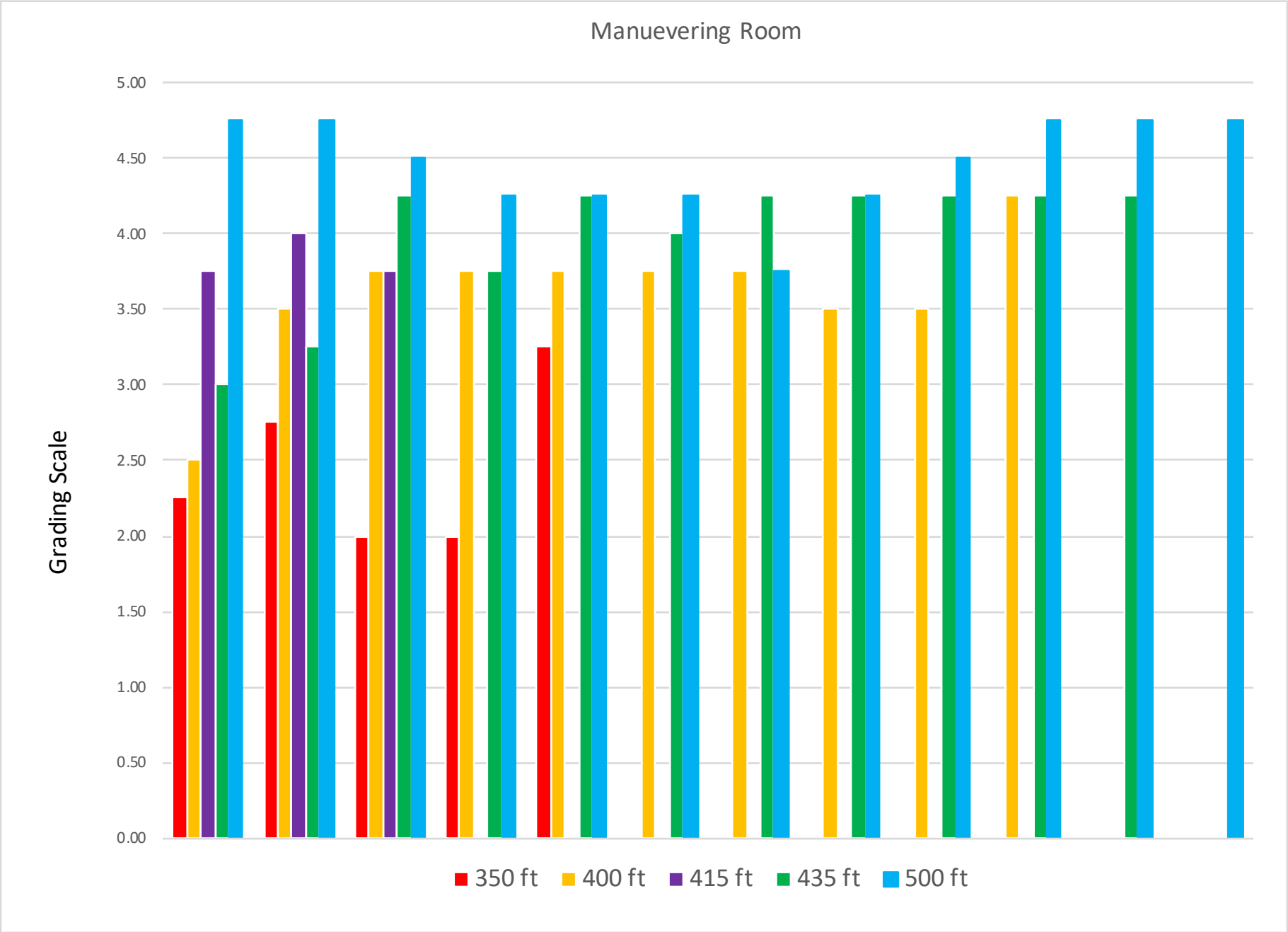
I49 - Arkansas River Bridge Project
Navigation Simulation Run Matrix - Scoresheet

sorted by Question 3 from lowest to highest

Rate the overall navigational difficulty of this pier alignment

Matrix Run Number	Run Order Number	Horizontal Clearance	Current	Tow Direction	Tow	Wind Speed	Time of Day	Question 1 Rate the maneuvering room in the navigation span.	Question 2 Rate the overall navigational safety of this pier alignment.	Question 3 Rate the overall navigational difficulty of this pier alignment.
77	40	350 ft	Low	Down	15 L	0 mph	Night	2.00	2.00	2.00
75	33	350 ft	High	Down	15 L	0 mph	Night	2.00	2.00	2.25
73	26	350 ft	Med	Down	15 L	0 mph	Night	2.25	2.25	2.25
74	27	350 ft	Med	UP	15 E	10 MPH	Day	2.75	2.75	2.75
13	9	400 ft	Med	Down	15 L	0 mph	Day	2.50	2.75	2.75
64	10	435 ft	Med	Down	15 E	10 MPH	Night	3.00	3.00	3.00
78	41	350 ft	Low	UP	15 E	10 MPH	Day	3.25	3.25	3.25
2	8	400 ft	Low	Up	15 L	10 MPH	Day	3.00	3.50	3.25
53	12	435 ft	Low	Down	15 L	0 mph	Day	3.25	3.25	3.25
45	7	500 ft	High	Down	15 L	0 mph	Day	3.75	3.75	3.25
20	11	400 ft	High	Up	15 E	10 MPH	Day	3.50	3.50	3.50
24	24	400 ft	High	Down	15 E	10 MPH	Day	3.50	3.50	3.50
14	25	400 ft	Med	Down	15 L	10 MPH	Day	3.50	3.50	3.50
40	5	500 ft	Med	Down	15 E	10 MPH	Day	4.25	3.75	3.50
22	18	400 ft	High	Down	15 L	10 MPH	Day	3.75	3.50	3.75
8	20	400 ft	Low	Down	15 E	10 MPH	Night	3.75	3.75	3.75
18	21	400 ft	High	Up	15 L	10 MPH	Night	3.75	3.75	3.75
16	23	400 ft	Med	Down	15 E	10 MPH	Night	3.75	3.75	3.75
81	32	415 ft	High	Down	15 L	0 mph	Day	3.75	3.50	3.75
79	28	415 ft	Med	Down	15 L	0 mph	Night	3.75	3.75	3.75
6	17	400 ft	Low	Down	15 L	10 MPH	Night	3.75	4.00	4.00
7	37	400 ft	Low	Down	15 E	0 mph	Night	4.25	4.25	4.00
80	29	415 ft	Low	Down	15 L	10 MPH	Night	4.00	3.75	4.00
56	15	435 ft	Low	Down	15 E	10 MPH	Day	3.75	3.75	4.00
66	22	435 ft	High	Up	15 L	10 MPH	Night	4.00	4.00	4.00
61	31	435 ft	Med	Down	15 L	0 mph	Day	4.25	4.25	4.00
70	34	435 ft	High	Down	15 L	10 MPH	Day	4.25	4.00	4.25
49	14	435 ft	Low	Up	15 L	0 mph	Day	4.25	4.25	4.25
60	19	435 ft	Med	Up	15 E	10 MPH	Day	4.25	4.25	4.25
62	35	435 ft	Med	Down	15 L	10 MPH	Day	4.25	4.25	4.25
72	36	435 ft	High	Down	15 E	10 MPH	Day	4.25	4.25	4.25
68	42	435 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
44	6	500 ft	High	Up	15 E	10 MPH	Day	4.25	4.25	4.25
25	1	500 ft	Low	Up	15 L	0 mph	Day	4.75	4.50	4.25
28	2	500 ft	Low	Up	15 E	10 MPH	Day	4.75	4.25	4.50
36	3	500 ft	Med	Up	15 E	10 MPH	Day	4.50	4.25	4.50
33	4	500 ft	Med	Up	15 L	0 mph	Night	4.25	4.25	4.50
29	13	500 ft	Low	Down	15 L	0 mph	Day	4.25	4.25	4.50
48	16	500 ft	High	Down	15 E	10 MPH	Day	4.50	4.25	4.50
38	30	500 ft	Med	Down	15 L	10 MPH	Day	4.75	4.50	4.75
32	38	500 ft	Low	Down	15 E	10 MPH	Day	4.75	4.75	4.75
42	39	500 ft	High	Up	15 L	10 MPH	Day	4.75	4.75	4.75
							Average	3.81	3.76	3.79

Appendix E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2.50
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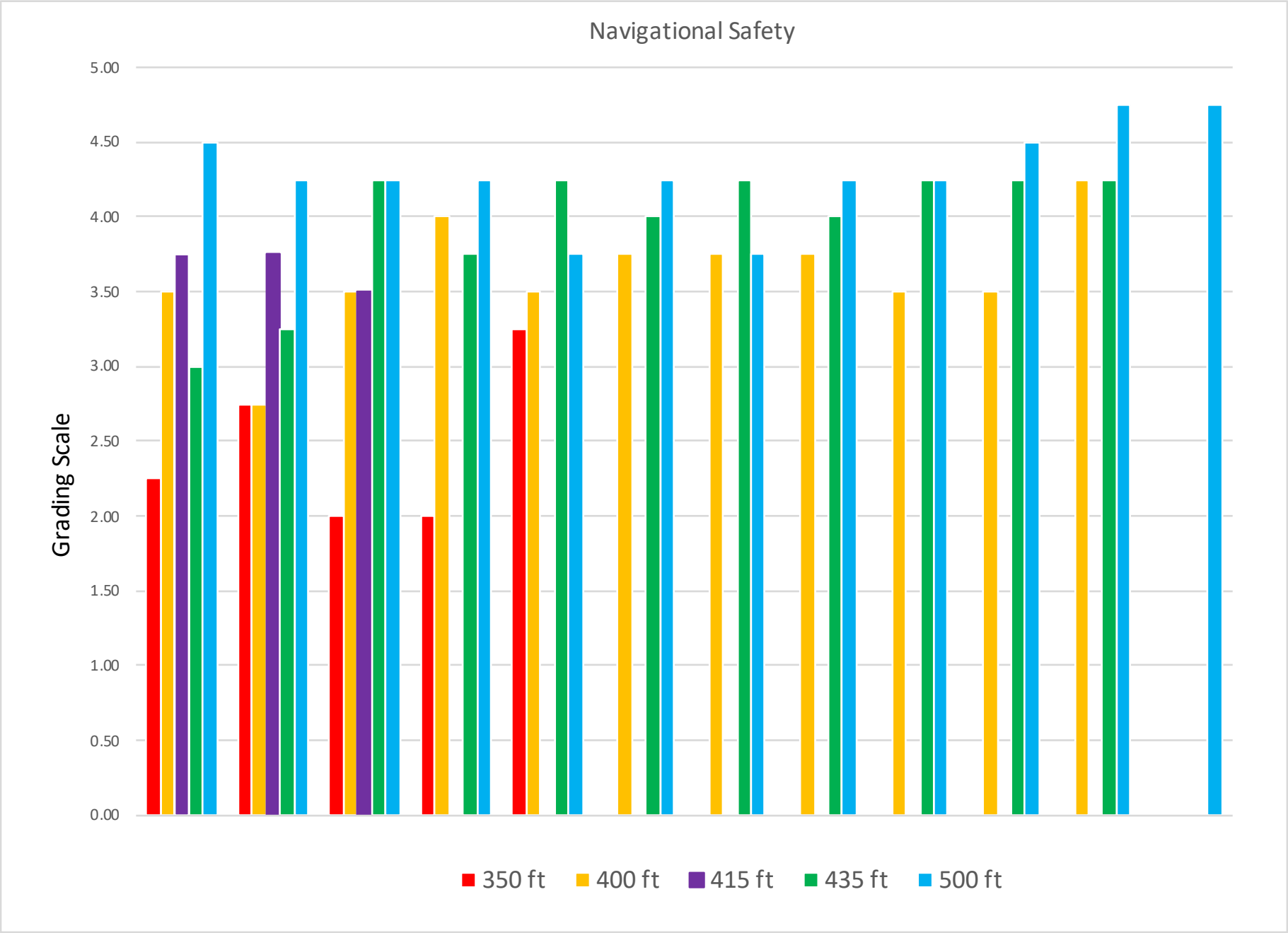
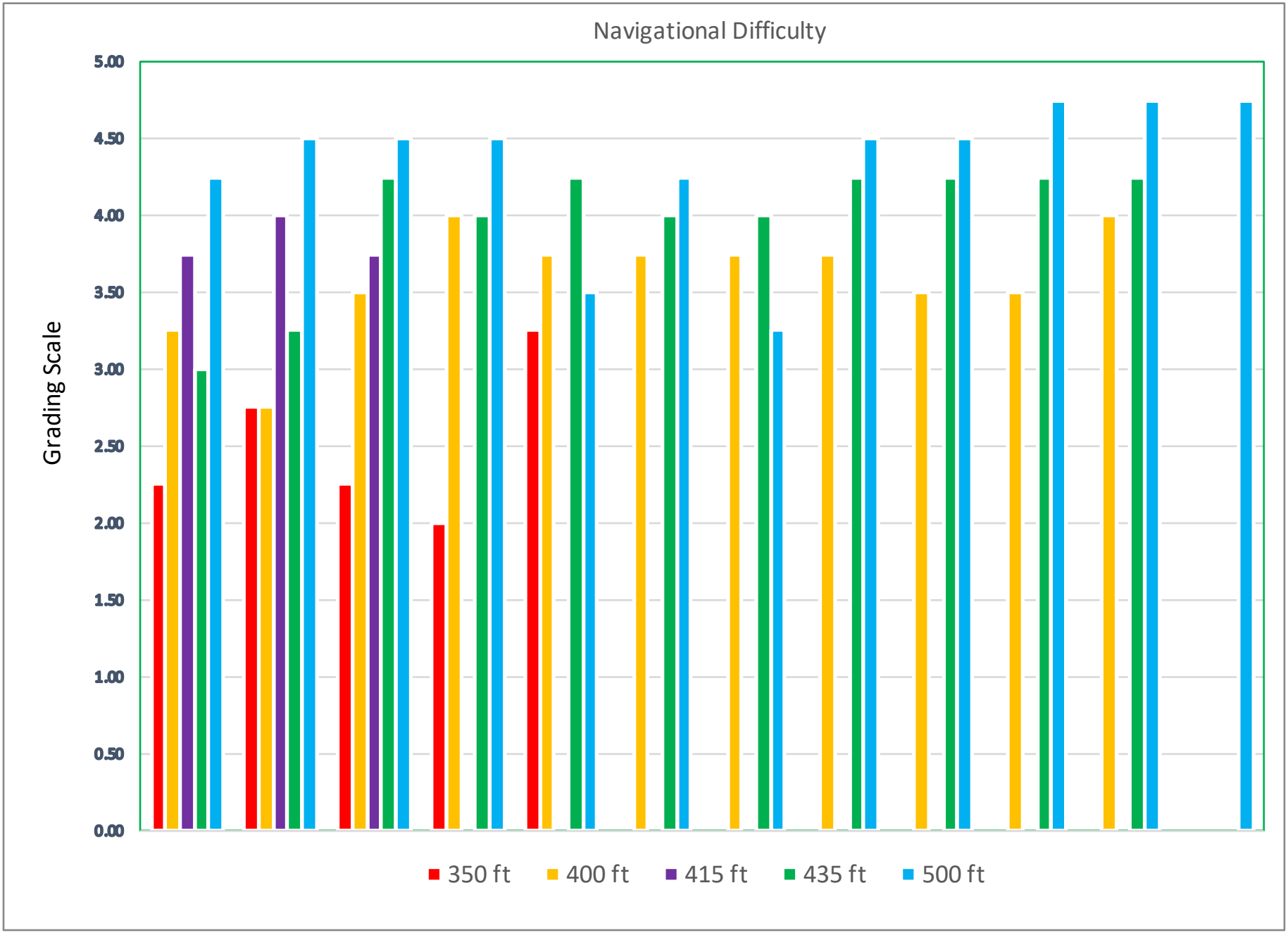
1.50
1.00
0.50
0.00
350 ft
400 ft
415 ft
435 ft
500 ft

Appendix E


Navigational Safety
Grading Scale
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
350 ft
400 ft
415 ft
435 ft
500 ft

Appendix E

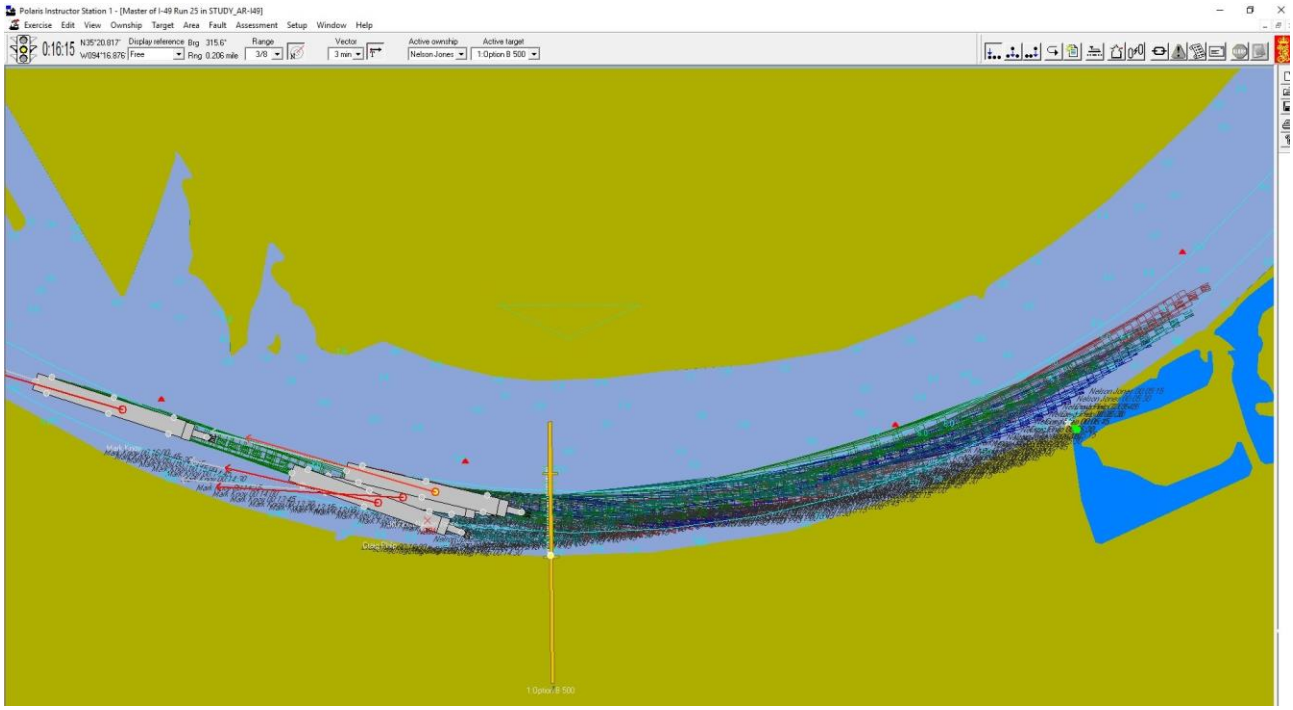

Navigational Difficulty
Grading Scale
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
350 ft
400 ft
415 ft
435 ft
500 ft

Appendix E		
Post Run Synopsis		
Submitted on:	**Pilot #**	**Overall Comments**
13/10/2021 13:39:21	Paducah Pilot 2	I recommend bre span be placed between 435 and 400 thank you
13/10/2021 13:39:06	Paducah Pilot 3	Made comments on run 68. Please do not allow the dictates of finance overrule the mandates of safety. Build it as close to 500' as possible with safety being a priority. Keep personalities in mind when evaluating comments recognizing that there is a personality type that relishes a challange and wants to prove how good they are. Build it for the average, prudent mariner who wants to wisely mitigate risks. Granted there are 300' spans on other bridges but they were built before we conceived of having 15 barge tows, let us not perpetuate the shortsightedness of the past with the mistakes of today. Thank you
13/10/2021 13:46:42	Paducah Pilot 5	My fellow Arkansans at ARDOT are asking for a plate girder bridge. I agree, it would not be an eye sore to our "Natural State" state of mind. As an Arkansan and a Master Of Towing, I think that the 415 foot span would keep prices lower and still would exceed the average width of all the other bridges on the MKARNS. The bridge is in a good place and not that hard to make. If built this way, during times of high water then the other span could be utilized for north bound traffic to run in less current than down in the bend.
13/10/2021 13:49:21	Paducah Pilot 6	Middle of the spectrum for my opinion. I could see either option the 415' or 435' being reasonable. Being a typical barge width is 35' the 435' almost gives you another barge width within the span compared to the 415', increasing chance for any uncommon environment or occurrence to reduce the impact for safety and traffic. As well as human error being factor, the extra 20' of span will aid in increasing the successful transits.

Run Evaluation Forms

I-49 Run 25

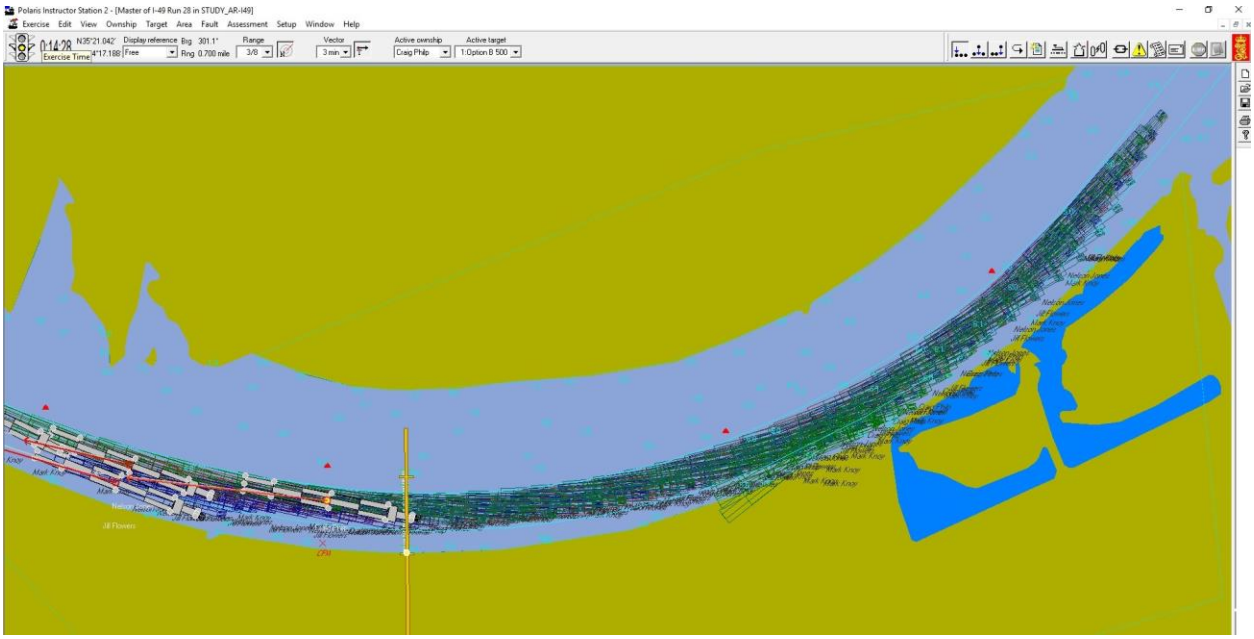
Horizontal clearance: 500 ft
Current: Low
Tow Direction: Upstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 5 pilot3: 5 pilot4: 4 pilot2: 5 Average: 4.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 5 pilot3: 4 pilot4: 4 pilot2: 5 Average: 4.5
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 4 pilot3: 4 pilot4: 4 pilot2: 5 Average: 4.2
If additional AtoN are needed, where and how many?	pilot1: 2 reds Marking bridge span. 1 before another immediately after. Should be placed there in case of low visibility pilot3: One red above and one red below aligning you with bridge.
What is challenging about this pier alignment?	pilot1: None if no traffic and pool water North bound pilot3: Not particularly challenging N/B at 20k CFS. pilot4: Nothing pilot2: Nothing n/b
What is best about this pier alignment?	pilot1: It's wide for North bound pilot3: RD pier is on bank. pilot4: It uses the existing channel and shapes the bank pilot2: Width

I-49 Run 28

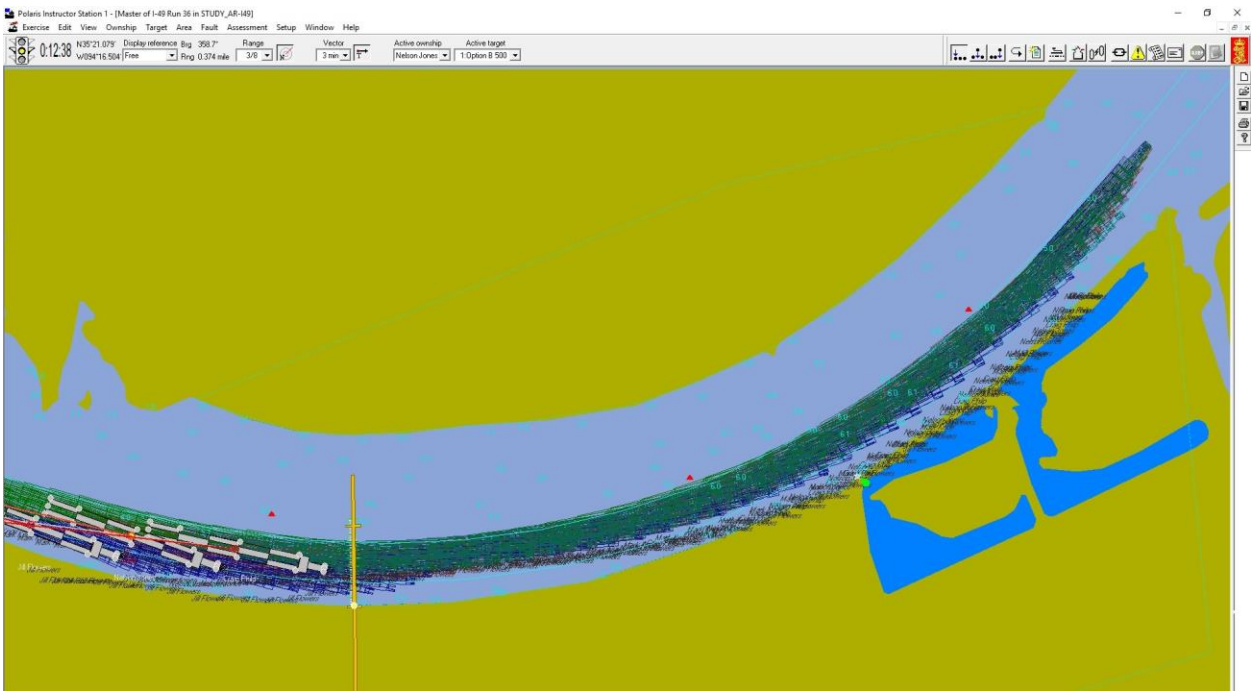
Horizontal clearance: 500 ft
Current: Low
Tow Direction: Upstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 5 pilot3: 5 pilot2: 5 pilot4: 4 Average: 4.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 5 pilot3: 4 pilot2: 4 pilot4: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 5 pilot3: 5 pilot2: 4 pilot4: 4 Average: 4.5
If additional AtoN are needed, where and how many?	pilot1: 2 reds. 1 immediately above 1 immediately below marking pier placement. That will be helpful for low visibility pilot3: One red above and one red below aligning bridge pier. pilot2: Need red just below pier and just above
What is challenging about this pier alignment?	pilot1: None as long as there's no traffic and pool water conditions pilot3: Nothing at this flow. Buoys will help in low visibility situations. pilot2: Not that challenging it's an easy steer pilot4: Nothing
What is best about this pier alignment?	pilot1: It's wide for single lane traffic pilot3: RD pier is on bank. pilot2: The width is best pilot4: Using the existing channel and runs along the bank
Additional comments?	pilot3: What will the unforeseen challenges to future mariners be. pilot2: If bridge location remains there it will need to be 500

I-49 Run 36

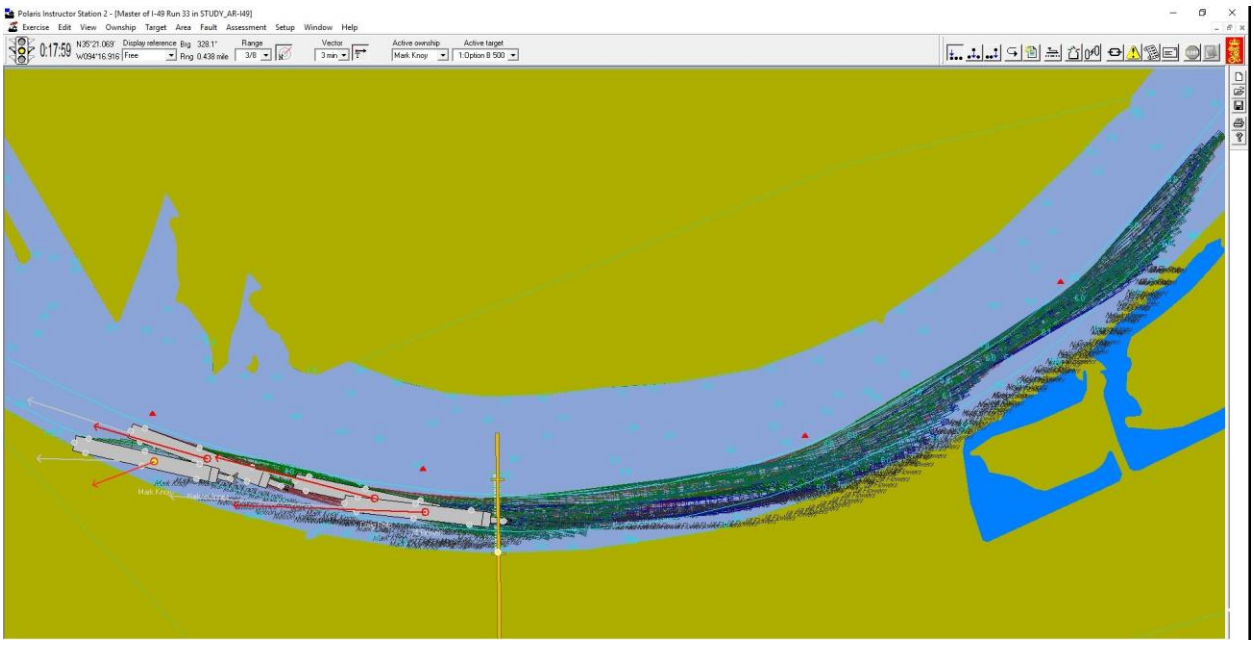
Horizontal clearance: 500 ft
Current: Medium
Tow Direction: Upstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 5 pilot3: 4 pilot4: 4 pilot2: 5 Average: 4.5
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 5 pilot3: 4 pilot4: 4 pilot2: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 5 pilot3: 5 pilot4: 4 pilot2: 4 Average: 4.5
If additional AtoN are needed, where and how many?	pilot1: 2 reds marking bridge pier pilot3: One Aton above and one below to aid in alignment during reduced visibility. pilot2: Red buoy just above and just below pier
What is challenging about this pier alignment?	pilot1: It is not while north bound, 1 lane traffic pilot3: Nothing at this point with this boat and tow. pilot4: Nothing pilot2: Not much
What is best about this pier alignment?	pilot1: Wide enough North bound pilot3: Coming out of bend and getting straight for lock approach. pilot4: Shapes the bank and has plenty of room pilot2: Width

I-49 Run 33

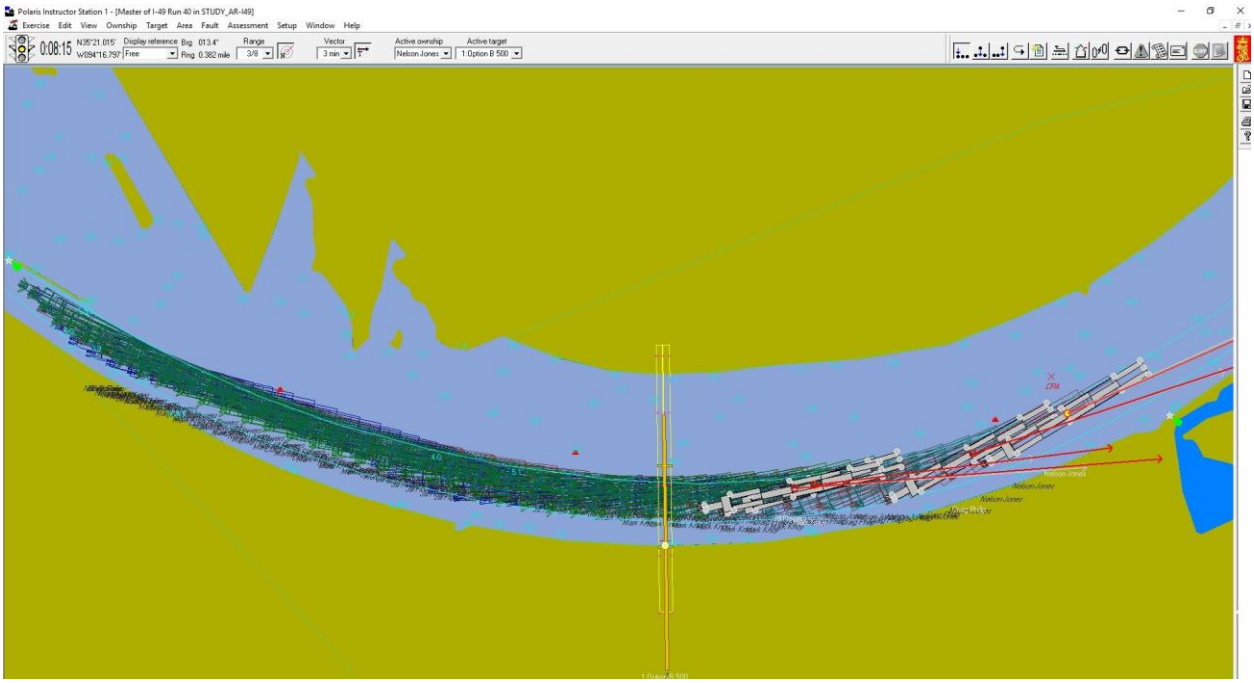
Horizontal clearance: 500 ft
Current: Medium
Tow Direction: Upstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 4 pilot2: 4 pilot4: 4 pilot1: 5 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 4 pilot2: 4 pilot4: 4 pilot1: 5 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 4 pilot2: 5 pilot4: 4 pilot1: 5 Average: 4.5
If additional AtoN are needed, where and how many?	pilot3: 1 red buoy above and one red below the pier aligning with the pier. pilot2: Reds above and below pier pilot1: 2 reds marking pier
What is challenging about this pier alignment?	pilot3: Nothing at this point. pilot2: Not much nb pilot4: Nothing pilot1: 1 way traffic
What is best about this pier alignment?	pilot3: Helps line up with the lock wall. pilot2: It's width and right descending pier being on shore pilot4: Plenty of room pilot1: 500 ft wide

I-49 Run 40

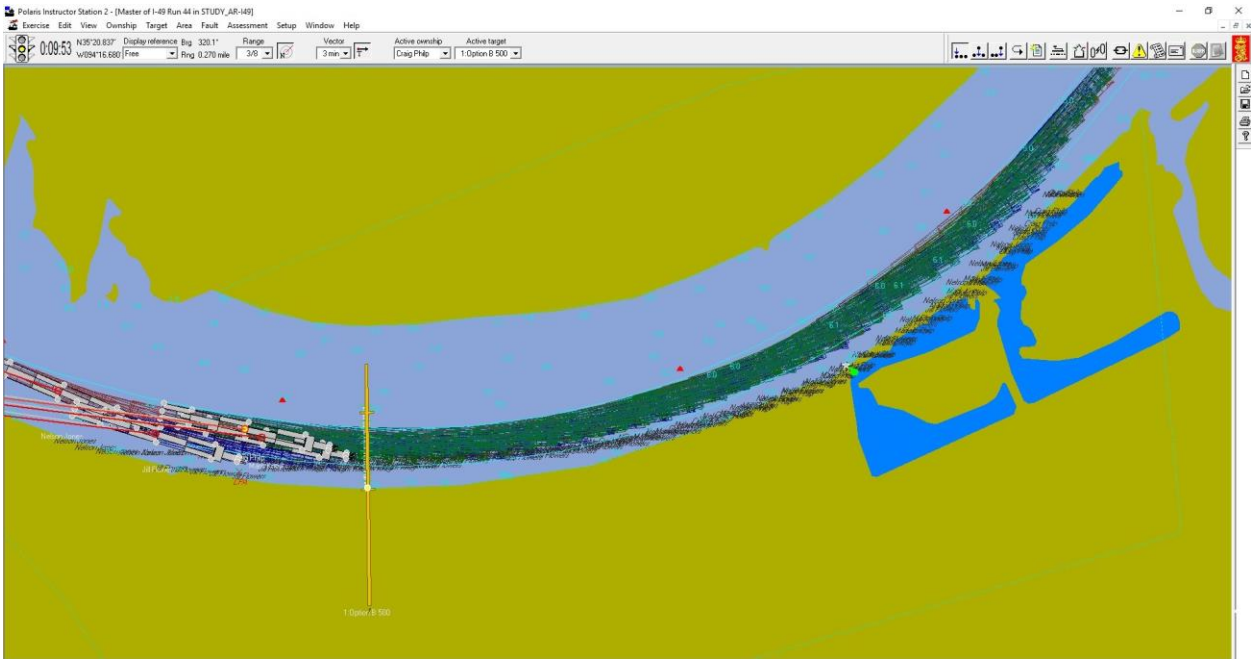
Horizontal clearance: 500 ft
Current: Medium
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 5 pilot4: 4 pilot3: 3 pilot2: 5 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 4 pilot4: 4 pilot3: 3 pilot2: 4 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 3 pilot4: 4 pilot3: 3 pilot2: 4 Average: 3.5
If additional AtoN are needed, where and how many?	pilot1: 2 pilot3: Buoy right above and right below LD pier. pilot2: Left descending pier reds above and just below
What is challenging about this pier alignment?	pilot1: Wind with empty's pilot4: Nothing pilot3: Set up. You will have to hold up on the LD pier to allow for slide but yet not so much that you can't pull away from the pier. pilot2: Not much at 50,000 and below
What is best about this pier alignment?	pilot1: The width pilot4: Plenty of room pilot3: You have good bank below to back up and land on if you need to regroup. pilot2: Width and right pier being on shore
Additional comments?	pilot1: Not bad with all empties

I-49 Run 44

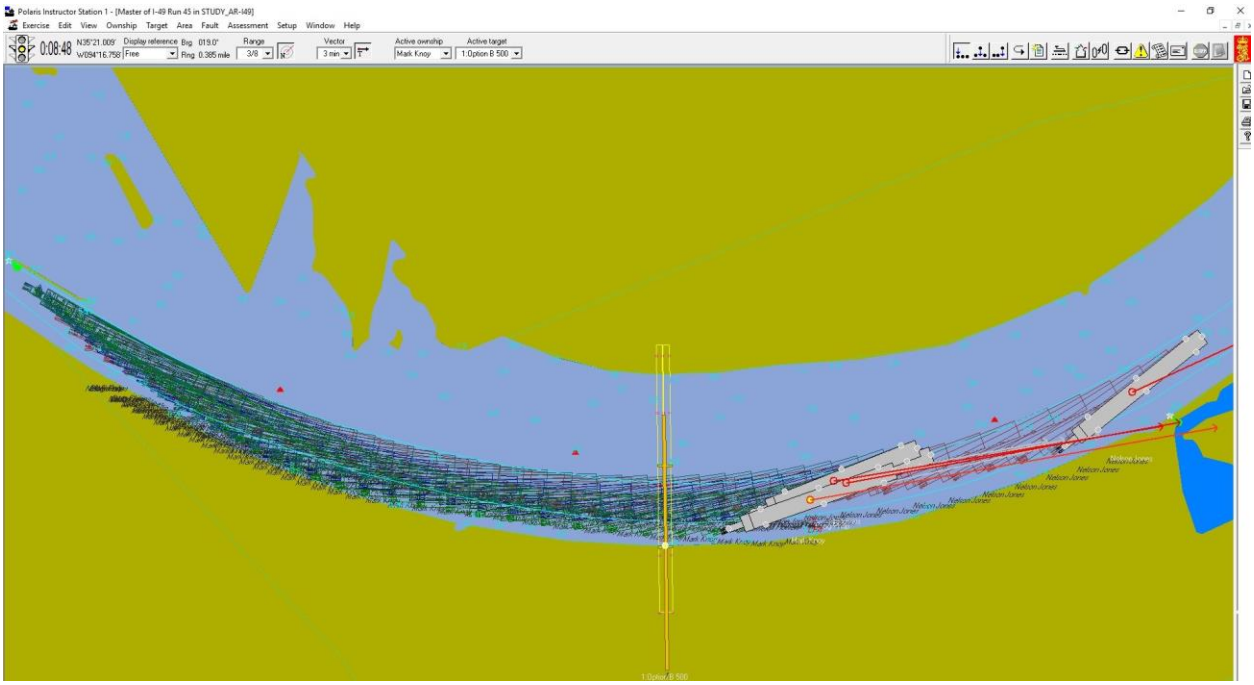
Horizontal clearance: 500 ft
Current: High
Tow Direction: Upstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 5 pilot4: 4 pilot3: 4 pilot2: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 5 pilot4: 4 pilot3: 4 pilot2: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 5 pilot4: 4 pilot3: 4 pilot2: 4 Average: 4.2
If additional AtoN are needed, where and how many?	pilot1: 2 marking bridge pier pilot3: Aton above and below the pier to mark for radar in low visibility situations. pilot2: 2 reds just above and just below
What is challenging about this pier alignment?	pilot1: Going to fast with Empty's pilot4: Nothing pilot3: Not allowing the set to take you to the pier. pilot2: Not much at 100,000 n/b mtys
What is best about this pier alignment?	pilot1: The width pilot4: Plenty of room pilot3: Bank to land on to regroup and it lines you up for the lock. pilot2: Width and pier placement
Additional comments?	pilot1: I recommend 1 way traffic pilot2: Will need to be 500 horizontal

I-49 Run 45

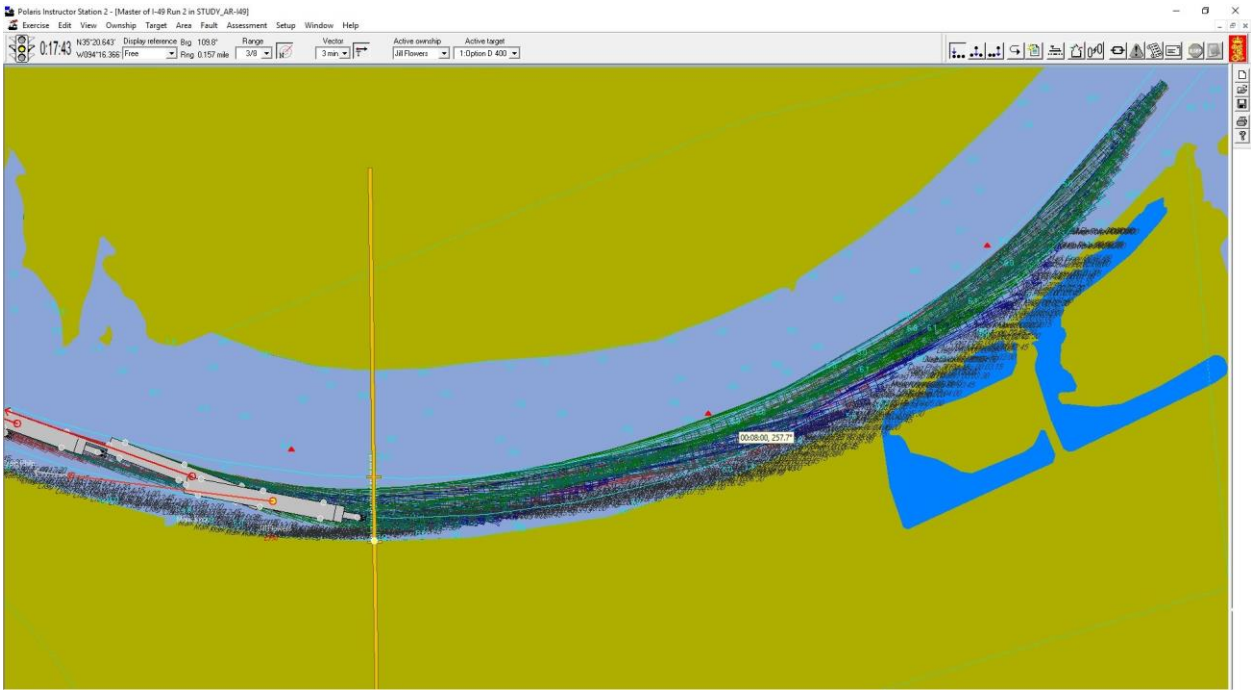
Horizontal clearance: 500 ft
Current: High
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 4 pilot4: 4 pilot2: 4 pilot3: 3 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 4 pilot4: 4 pilot2: 4 pilot3: 3 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 4 pilot4: 3 pilot2: 4 pilot3: 2 Average: 3.2
If overall navigational difficulty is rated below 3, please explain why.	pilot3: If you are not set up properly you will have a foot race with the bank or slide into it, possibly tearing the rudders off.
If additional AtoN are needed, where and how many?	pilot1: 2 reds pilot2: 2 more reds closer to pier pilot3: Red immediately upstream and downstream of pier.
What is challenging about this pier alignment?	pilot1: Tendency to steer toward the left descending pier to early. pilot4: Nothing pilot2: Not much it has draw toward left descending pier on top side pilot3: Getting the head out far enough.
What is best about this pier alignment?	pilot1: The width seems ok pilot4: Plenty of room pilot2: Width and pier placement pilot3: Nothing but bank on the RDS.
Additional comments?	pilot2: Has left hand draw towards pier got to be careful not.to end up square turning left pier draw is on top side to port pilot3: There should never be any docks, personal or business allowed above or below bridge.

I-49 Run 2

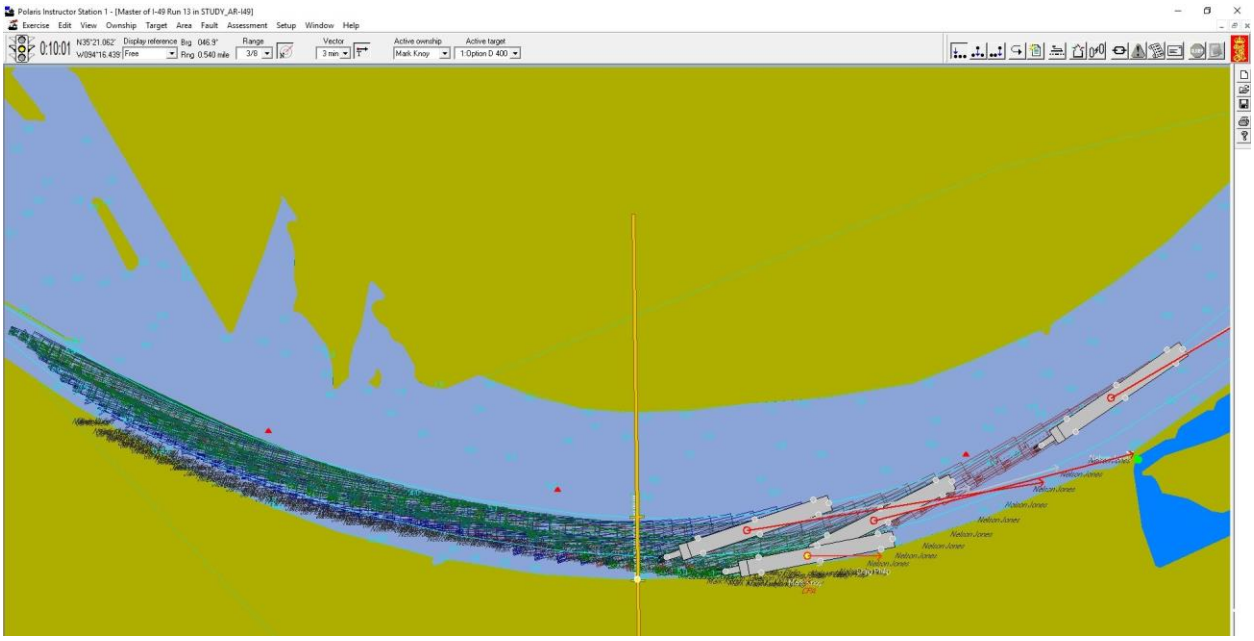
Horizontal clearance: 400 ft
Current: Low
Tow Direction: Upstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 3 pilot4: 3 pilot2: 3 pilot3: 3 Average: 3.0
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 3 pilot4: 4 pilot2: 3 pilot3: 4 Average: 3.5
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 3 pilot4: 3 pilot2: 3 pilot3: 4 Average: 3.2
If additional AtoN are needed, where and how many?	pilot1: 2 reds marking bridge pier. 1 just above, 1 below pilot2: 2 reds 1 above and 1just below pilot3: One above and one below the pier.
What is challenging about this pier alignment?	pilot1: Navigation is narrow pilot4: Nothing pilot2: Little tight at 400 ft being just below lock pilot3: Restricted room for passage.
What is best about this pier alignment?	pilot1: North bound it is navigable pilot4: Nothing 500-foot span is better. pilot2: The 500 ft span will be the safest n/b and s/b pilot3: Nothing in the way on LDB
Additional comments?	pilot1: Recommend slow approach pilot3: Keep shore free of impediments to navigation.

I-49 Run 13

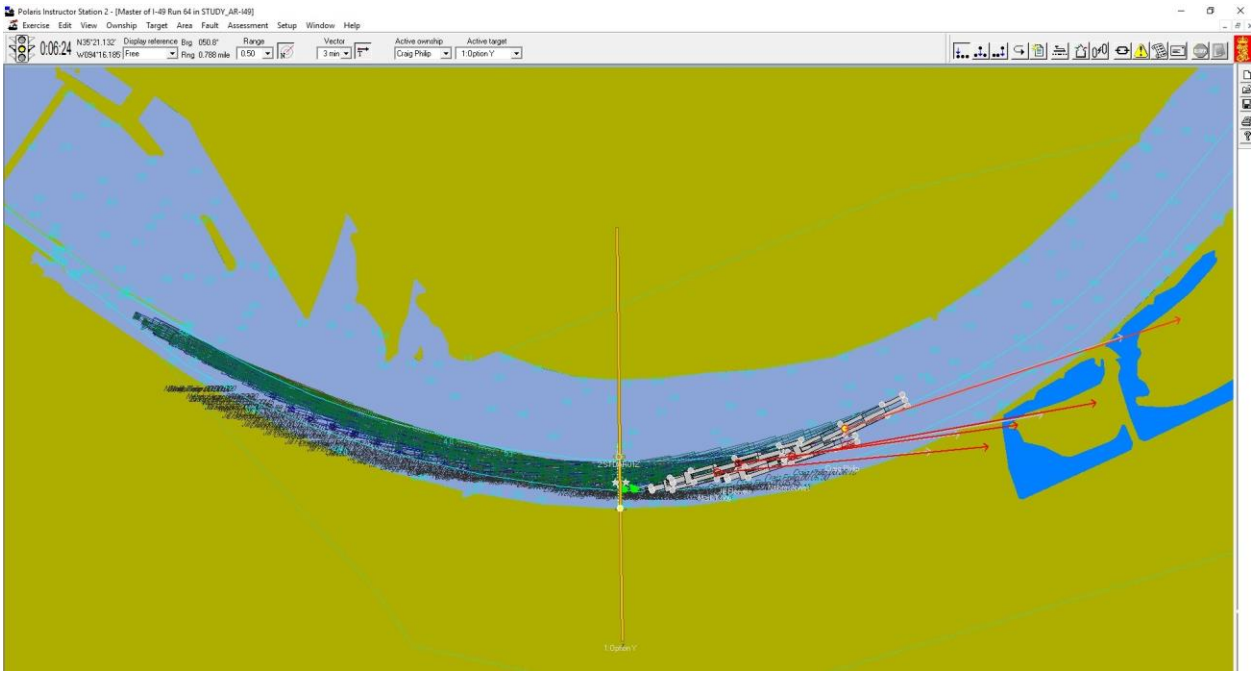
Horizontal clearance: 400 ft
Current: Medium
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 2 pilot3: 2 pilot4: 3 pilot2: 3 Average: 2.5
If the maneuvering room is rated below 3, please explain why.	pilot1: Limited room in channel span. No room for correction if needed pilot3: Not enough room to hold head up on pier, had to steer head down then back up and land. Bad set up on my part.
Rate the overall navigational safety of this alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 2 pilot3: 3 pilot4: 3 pilot2: 3 Average: 2.8
If overall navigational safety is rated below 3, please explain why.	pilot1: If current is running not enough maneuvering room
Rate the overall navigational difficulty of this alignment with 1 being you had extremely difficult and 5 being not difficult at all.	pilot1: 2 pilot3: 3 pilot4: 3 pilot2: 3 Average: 2.8
If overall navigational difficulty is rated below 3, please explain why.	pilot1: Limited room
If additional AtoN are needed, where and how many?	pilot1: 2 reds pilot3: A red immediately above and below the LD pier. pilot2: Nothing more than what I saw
What is challenging about this pier alignment?	pilot1: In bend where current is running pilot3: Holding the head close enough to make and leave stern room. pilot4: You have to get really close to the pier to set up for the turn. It's too narrow it needs to be 500 ft pilot2: 100 ft less horizontally
What is best about this pier alignment?	pilot1: Just enough room to fit. But no room to be out of shape pilot3: Enough bank to back up and land. pilot4: Nothing too narrow. Needs to be 500 feet pilot2: Right deciding pier is on shore
Additional comments?	pilot1: Medium current to hi current this could be a problem

I-49 Run 64

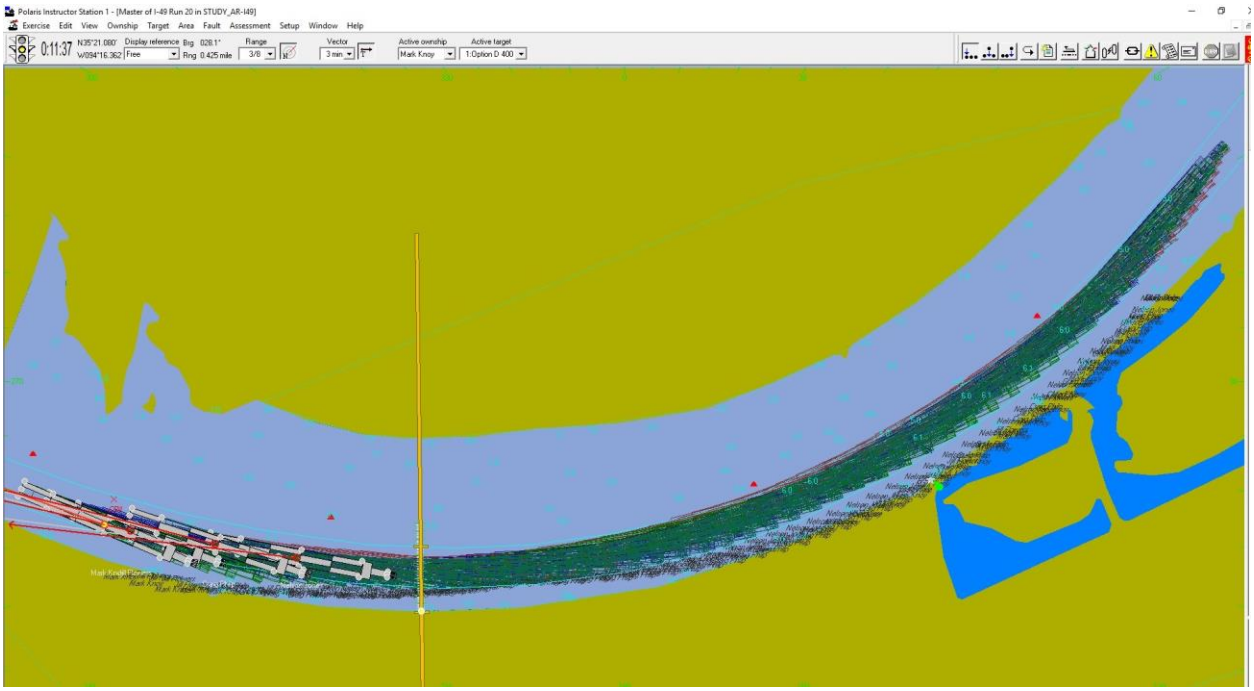
Horizontal clearance: 435 ft
Current: Medium
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 3 pilot3: 3 pilot4: 3 pilot2: 3 Average: 3.0
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 3 pilot3: 3 pilot4: 3 pilot2: 3 Average: 3.0
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 3 pilot3: 3 pilot4: 3 pilot2: 3 Average: 3.0
If additional AtoN are needed, where and how many?	pilot1: 2 reds marking pier pilot3: Two. One above the pier and one below the pier. pilot2: No additional
What is challenging about this pier alignment?	pilot1: Narrow span, tendency to come around to early on left descending pier. Hard to let her drop in span pilot3: Fpilot4: You have to get close to the pier to make the turn. pilot2: Width
What is best about this pier alignment?	pilot1: Seems to be aligned with current pilot3: Having a place to land when you miss. pilot4: Nothing it needs to be wider. pilot2: 35 ft wider
Additional comments?	pilot1: It will be easy to turn to early above bridge. pilot2: Will be very technical at 400 ft

I-49 Run 20

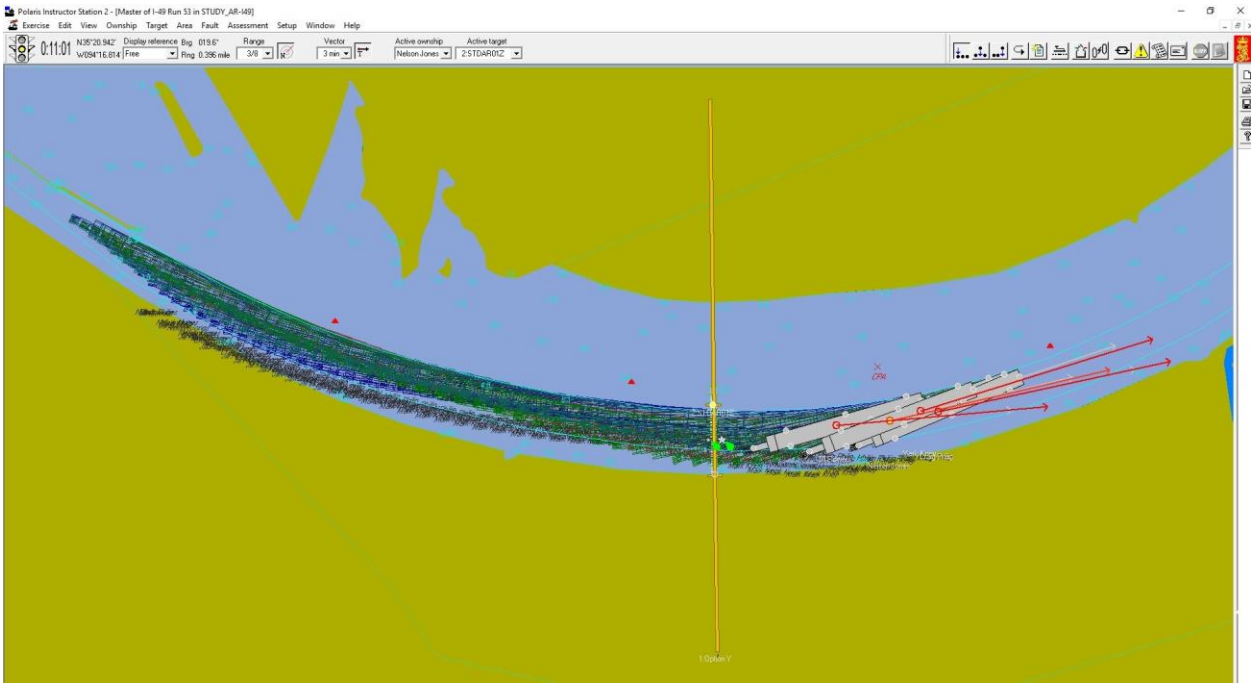
Horizontal clearance: 400 ft
Current: High
Tow Direction: Upstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 4 pilot1: 4 pilot4: 3 pilot2: 3 Average: 3.5
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 4 pilot1: 4 pilot4: 3 pilot2: 3 Average: 3.5
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 4 pilot1: 4 pilot4: 3 pilot2: 3 Average: 3.5
If additional AtoN are needed, where and how many?	pilot3: Two pilot1: 2 reds
What is challenging about this pier alignment?	pilot3: Staying away from the pier and keeping the stern off the bank. pilot1: It is narrow but ok North bound with empty's pilot4: Narrow pilot2: High flow
What is best about this pier alignment?	pilot3: Nothing other than having an unobstructed bank. pilot1: It's ok North bound pilot4: Nothing. Should be 500 feet wide pilot2: Right hand pier on shore
Additional comments?	pilot1: Be helpful to Mark bridge piers with red buoys

I-49 Run 53

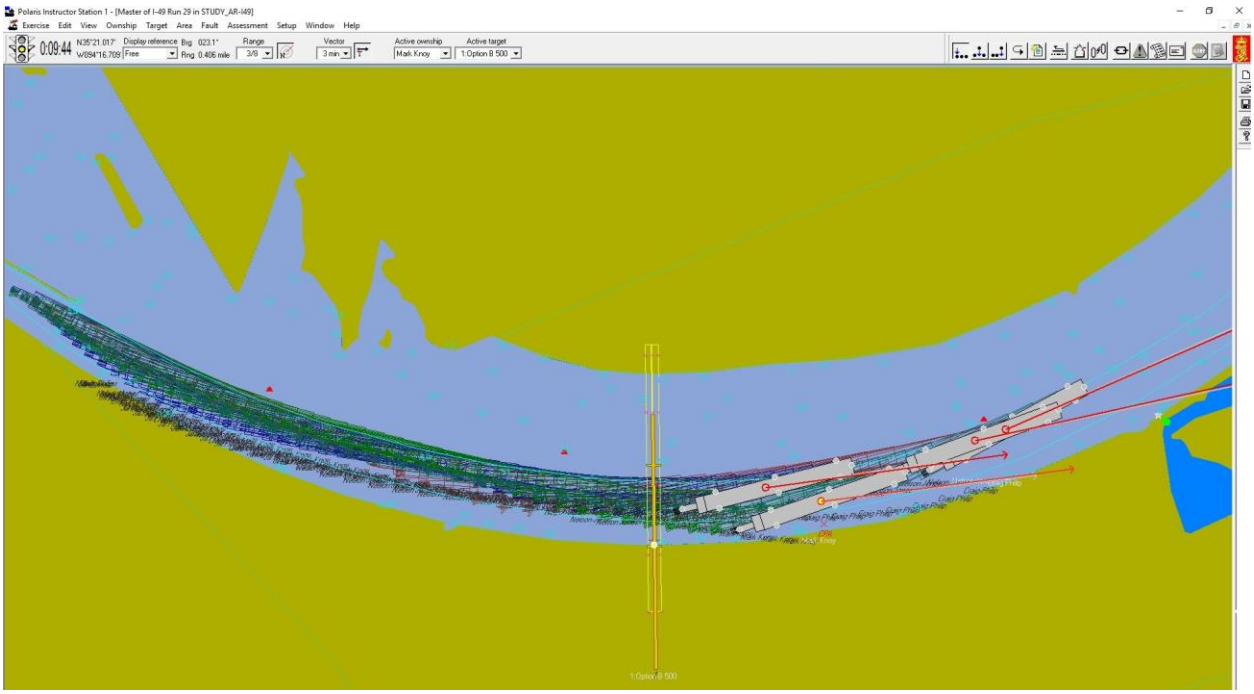
Horizontal clearance: 435 ft
Current: Low
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 3 pilot3: 4 pilot4: 3 pilot2: 3 Average: 3.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 3 pilot3: 4 pilot4: 3 pilot2: 3 Average: 3.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 3 pilot3: 4 pilot4: 3 pilot2: 3 Average: 3.2
If additional AtoN are needed, where and how many?	pilot1: 2 reds marking piers pilot3: One above and one below the pier.
What is challenging about this pier alignment?	pilot1: Narrow have to give it time to fall down into channel span pilot3: Shaping up so that you don't crowd the pier two much but leave stern room. pilot4: Narrow pilot2: Horizontal distance
What is best about this pier alignment?	pilot1: It's aligned with current pilot3: Unobstructed bank pilot4: Nothing needs to be wider pilot2: Low water flow
Additional comments?	pilot1: Not a lot of room for a mistake

I-49 Run 29

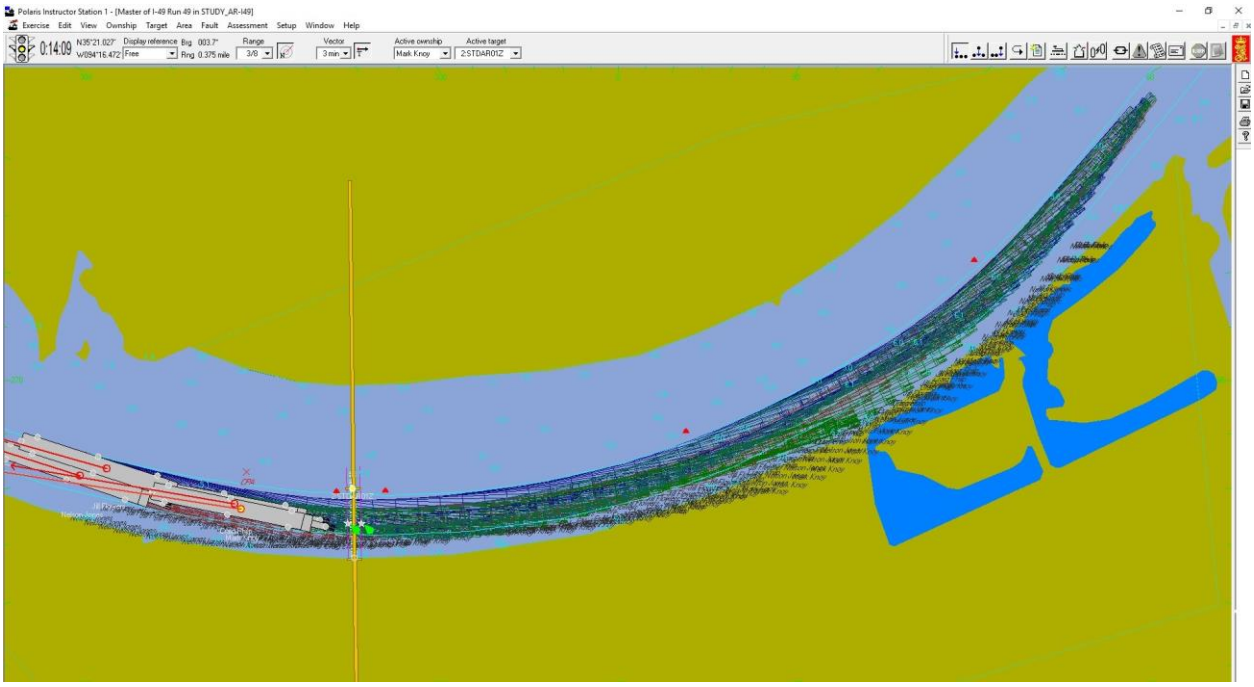
Horizontal clearance: 500 ft
Current: Low
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot1: 5 pilot2: 4 pilot3: 4 pilot4: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot1: 5 pilot2: 4 pilot3: 4 pilot4: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot1: 5 pilot2: 4 pilot3: 5 pilot4: 4 Average: 4.5
If additional AtoN are needed, where and how many?	pilot1: 2 reds marking pier pilot2: Red above and below pier pilot3: Two, one above and one below the pier.
What is challenging about this pier alignment?	pilot1: Want to turn to early on left descending pier pilot2: Current speed pilot3: Setting up for it so that you are close to the pier with the head of the tow while keeping the stern off of the bank. pilot4: Nothing
What is best about this pier alignment?	pilot1: Plenty wide pilot2: 500 ft span pilot3: Extra room and unobstructed bank. pilot4: Plenty of room
Additional comments?	pilot1: Pay attention to comments. I noticed as we run these multiple time in simulators, we will steadily get better at it and could make a difficult maneuver look easy. pilot3: Remember that just because we get through the simulation without incident may be more like a 12 year old with a game boy, every time we play this game we get a little better at it. Be cautious as to the weight you attach to it.

I-49 Run 49

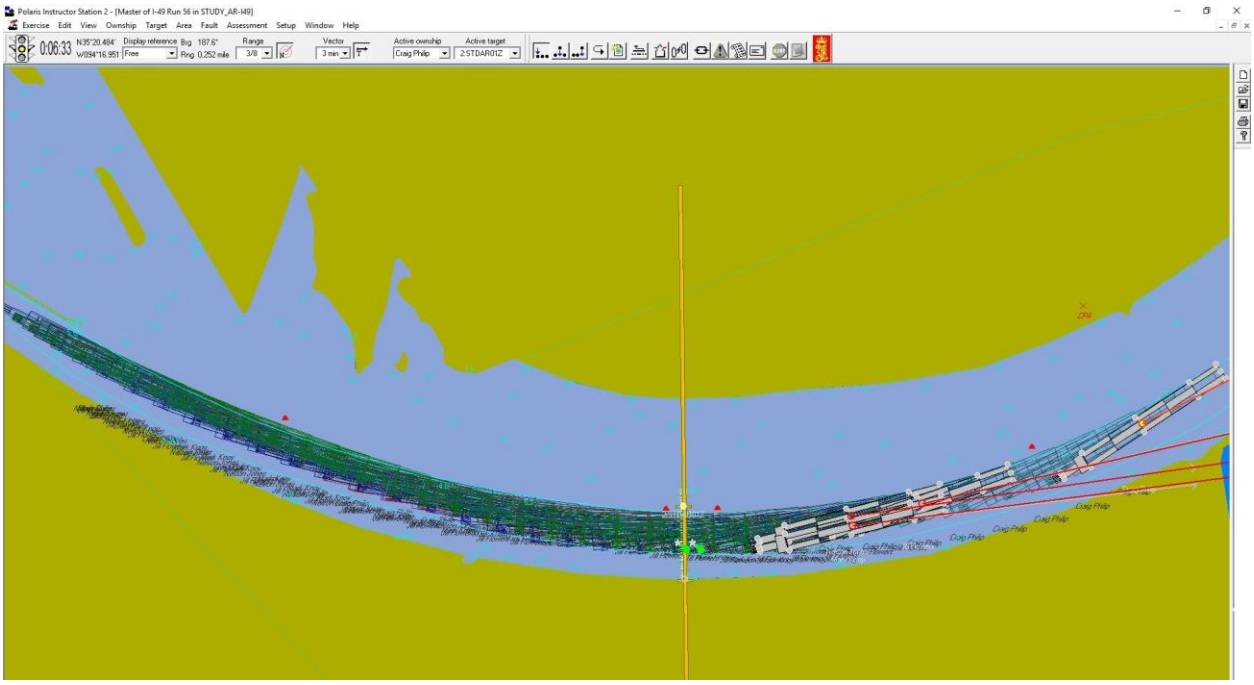
Horizontal clearance: 435 ft
Current: Low
Tow Direction: Upstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot4: 4 pilot2: 4 pilot3: 4 pilot5: 5 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot4: 4 pilot2: 4 pilot3: 4 pilot5: 5 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot4: 4 pilot2: 4 pilot3: 4 pilot5: 5 Average: 4.2
If additional AtoN are needed, where and how many?	pilot2: None are needed in addition to what is there pilot3: One upstream of pier and one downstream of pier. pilot5: Buoys above and below that can be seen on radar in foul weather situations, or bridge protection cells that are lighted and marked that can be seen on radar.
What is challenging about this pier alignment?	pilot4: Nothing pilot2: Nothing to challenging pilot3: Leaving room for your stern when shaping up for the bridge. pilot5: For this exercise really nothing.
What is best about this pier alignment?	pilot4: It's a little better than the 400-foot span. pilot2: Width of 435 and right descending pier being on shore pilot3: Unobstructed bank pilot5: I can't say at this time, have not tried it in an alternate position.
Additional comments?	pilot4: North bound transit is not really going to be an issue as much as south bound transit. pilot2: Bridge is not very technical to maneuver through at widths of 4oo to 500 I find easy passage n/b and s/b from low water to high water pilot5: None at this time.

I-49 Run 56

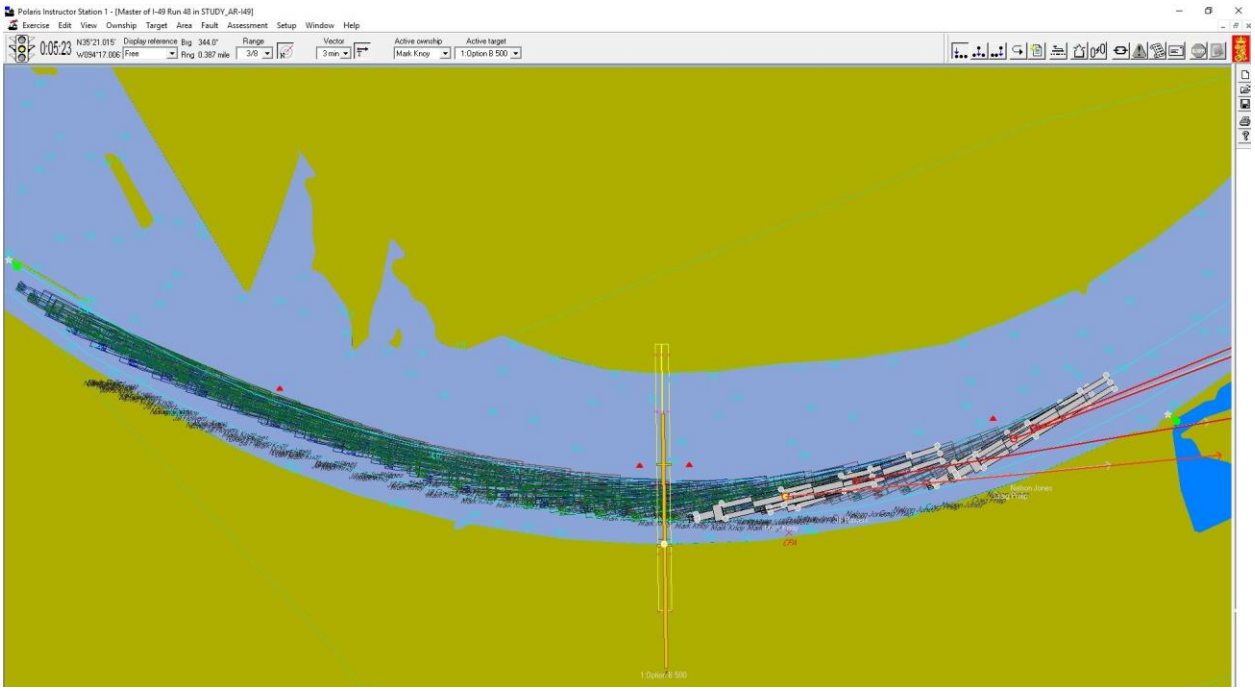
Horizontal clearance: 435 ft
Current: Low
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot3: 3 pilot4: 3 pilot5: 5 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot3: 3 pilot4: 3 pilot5: 5 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot3: 4 pilot4: 3 pilot5: 5 Average: 4.0
If additional AtoN are needed, where and how many?	pilot2: None pilot3: One upstream of the pier and one downstream of the pier. pilot5: Buoys above and below
What is challenging about this pier alignment?	pilot2: Not much pilot3: Not sliding into the bank. pilot4: A little narrow compared to the 500-foot span. Still having to get close to the pier to make the turn in the bridge. pilot5: Not really at this stage and tow
What is best about this pier alignment?	pilot2: Wide pilot3: Unobstructed shoreline. pilot4: Slightly better than the 400-foot span. pilot5: Appears to be fine, but haven't seen it any differently at this time.
Additional comments?	pilot4: In my opinion 435 feet would be the smallest span you would want and 500 feet would be better. pilot5: None

I-49 Run 48

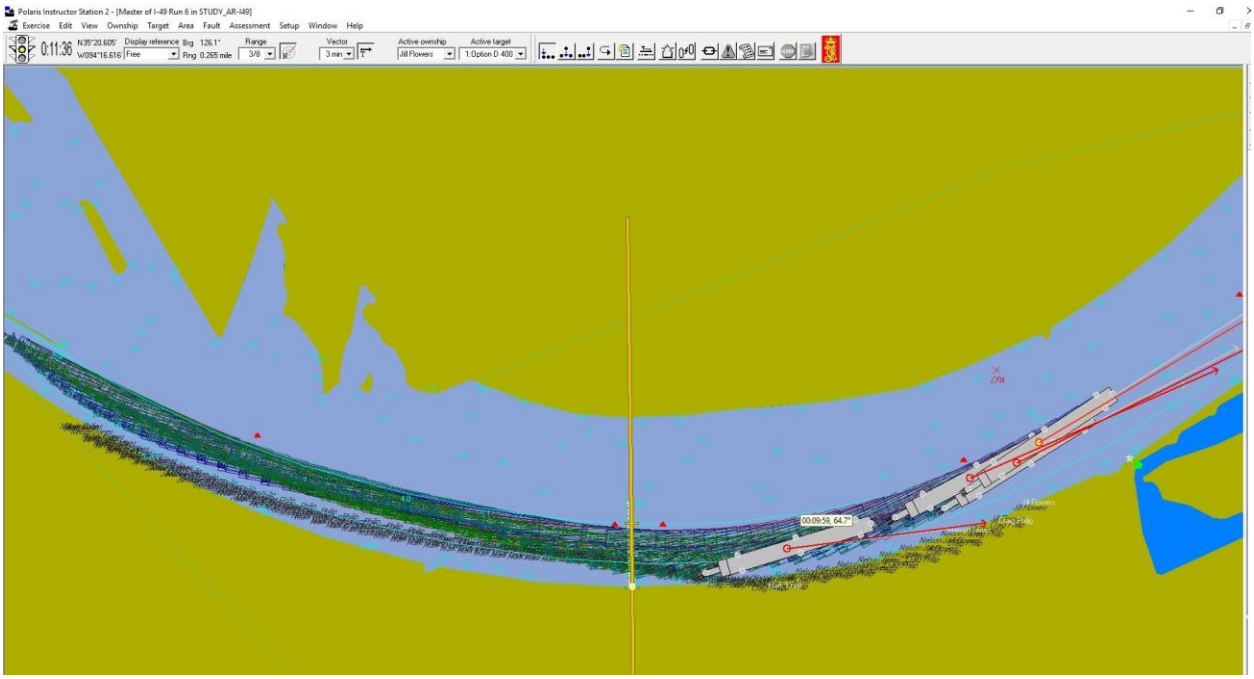
Horizontal clearance: 500 ft
Current: High
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot3: 5 pilot4: 4 pilot5: 5 Average: 4.5
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot3: 4 pilot4: 4 pilot5: 5 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 5 pilot3: 4 pilot4: 4 pilot5: 5 Average: 4.5
If additional AtoN are needed, where and how many?	pilot3: One upstream of the pier and one downstream of the pier. pilot5: Buoys or protection cells that are visible on radar.
What is challenging about this pier alignment?	pilot2: Not that challenging at 500 ft or 400 pilot3: Positioning but much better than 400' or 435' pilot4: Nothing plenty of room pilot5: At this current flow when leaving the lock, you'll need to hook up to outrun the set coming from across the river. So, you'll be holding the left descending pier close.
What is best about this pier alignment?	pilot2: Width pilot3: Room to more safely transit. pilot4: Nice wide span plenty or room. pilot5: Haven't tried any other alignment yet.
Additional comments?	pilot5: None yet.

I-49 Run 6

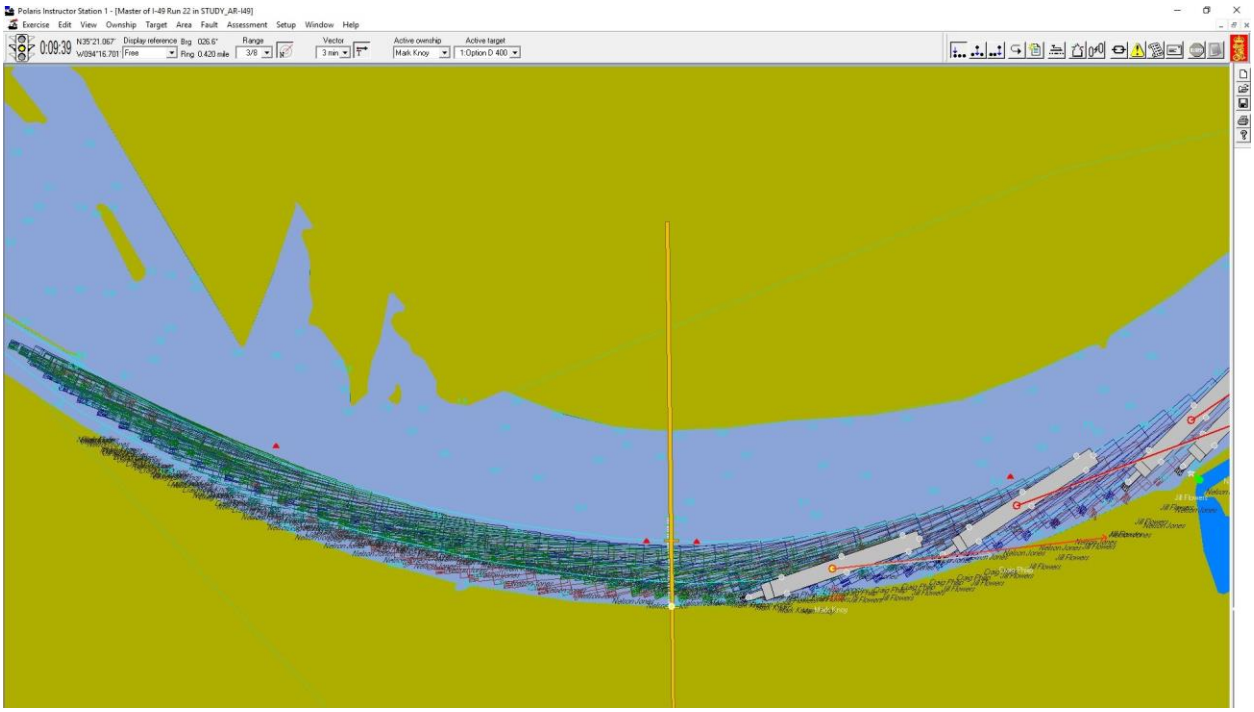
Horizontal clearance: 400 ft
Current: Low
Tow Direction: Downstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 3 pilot4: 3 pilot2: 4 pilot5: 5 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 4 pilot4: 3 pilot2: 4 pilot5: 5 Average: 4.0
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 4 pilot4: 3 pilot2: 4 pilot5: 5 Average: 4.0
If additional AtoN are needed, where and how many?	pilot3: One upstream of the pier and one downstream of the pier. pilot2: None as of now pilot5: Buoys and or protection cells.
What is challenging about this pier alignment?	pilot3: Not as much room to maneuver. pilot4: The span is too narrow pilot2: Not that much pilot5: So, far just staying jacked up on the pier in order to stay set up for the continuation of the bend after the bridge.
What is best about this pier alignment?	pilot3: Unobstructed shoreline. pilot4: Nothing it's too narrow pilot2: Width pilot5: At this time the pier seems to be in a good spot, the right descending pier is on the bank so as not to affect navigation.
Additional comments?	pilot5: None at this time.

I-49 Run 22

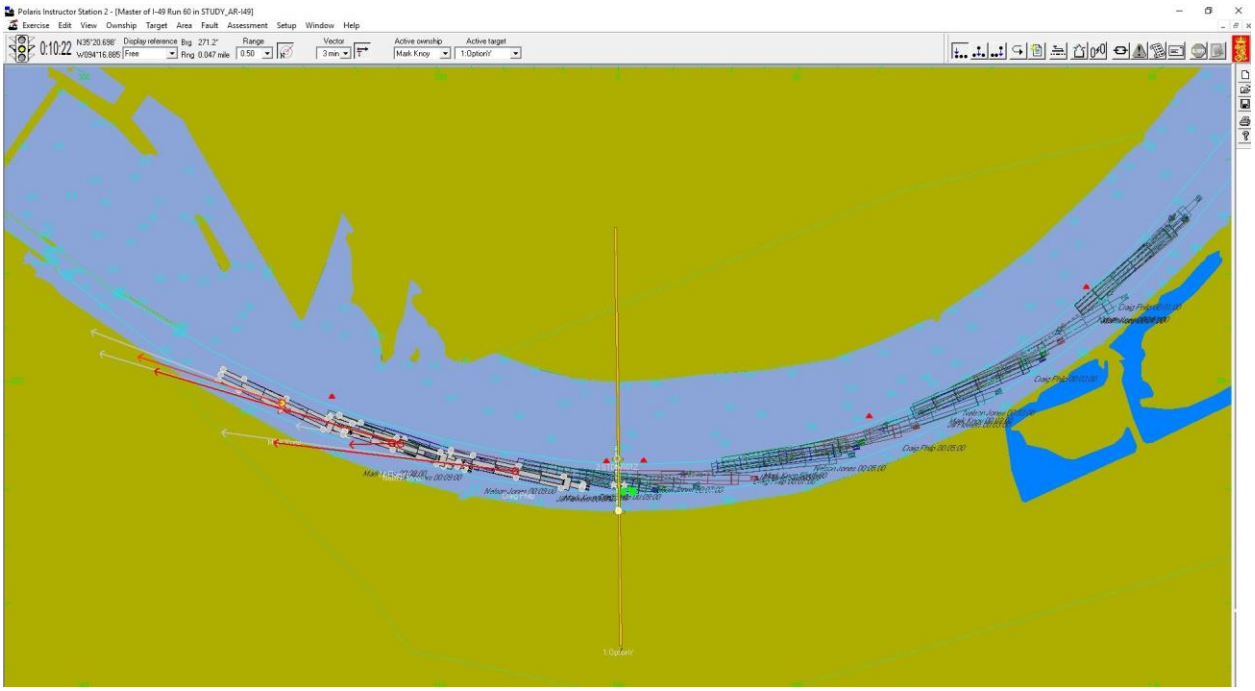
Horizontal clearance: 400 ft
Current: High
Tow Direction: Downstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 4 pilot4: 3 pilot2: 4 pilot5: 4 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 3 pilot4: 3 pilot2: 4 pilot5: 4 Average: 3.5
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 4 pilot4: 3 pilot2: 4 pilot5: 4 Average: 3.8
If additional AtoN are needed, where and how many?	pilot3: One upstream of the pier and one downstream of the pier. pilot2: Enough on that exercise pilot5: Protection cells and/or Buoys, 1 above and 1 below.
What is challenging about this pier alignment?	pilot3: Proper positioning of the tow with limited room. pilot4: Too narrow had to drive at the pier to make the bridge. pilot2: Not too challenging pilot5: At this current speed you will need to be coming out of the lock hooked up in order the get to current speed. Also, there is a set above the bridge that is not really noticed on a simulation but, it's there. I don't know of anybody that comes down at this river stage with 15 loads, but from what I'm seeing at this time it would also be flankable.
What is best about this pier alignment?	pilot3: Unobstructed shoreline pilot4: Nothing pilot2: Width pilot5: N/A
Additional comments?	pilot4: A 400-foot span will eventually get hit south bound in high water. pilot5: None yet.

I-49 Run 60

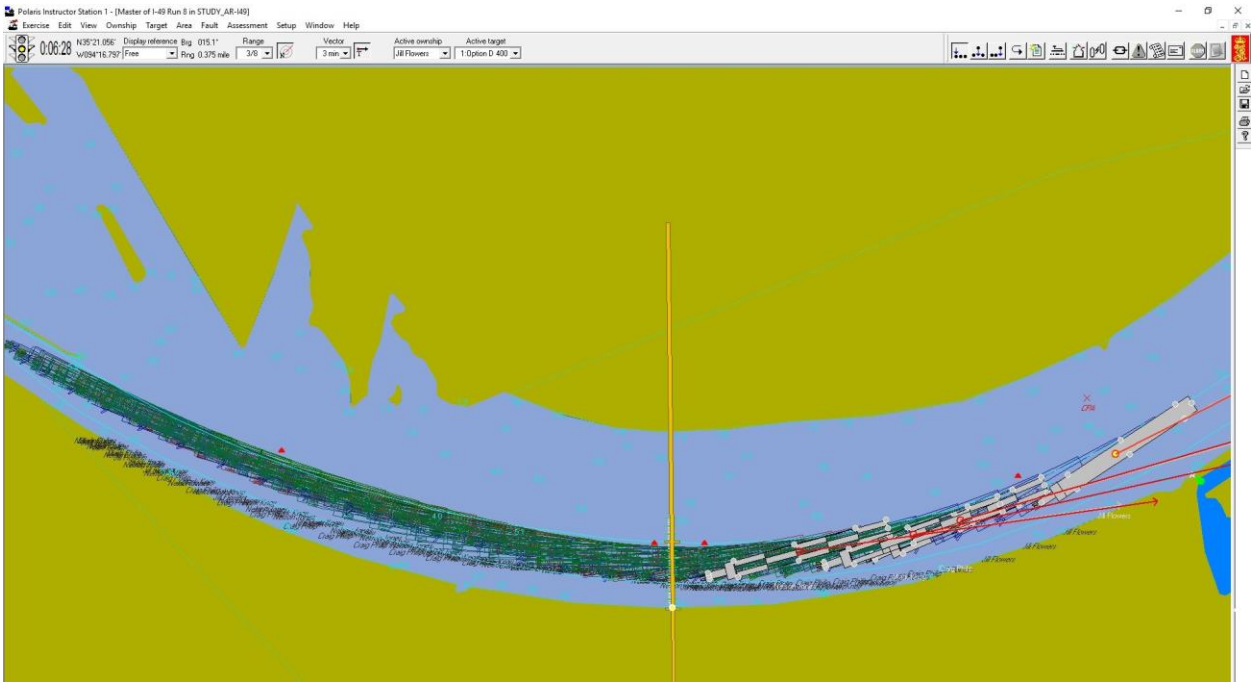
Horizontal clearance: 435 ft
Current: Medium
Tow Direction: Upstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot5: 5 pilot4: 4 pilot3: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot5: 5 pilot4: 4 pilot3: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot5: 5 pilot4: 4 pilot3: 4 Average: 4.2
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or Buoys. 1 above and 1 below pilot3: One upstream of the pier and one downstream of the pier
What is challenging about this pier alignment?	pilot2: Not very challenging piers are in good possession pilot5: Nothing yet. pilot4: Nothing pilot3: Proper alignment in a confined space
What is best about this pier alignment?	pilot2: Distance from each other one being on shore pilot5: N/A pilot4: Wider than the 400 pilot3: Unobstructed shoreline.
Additional comments?	pilot3: While it is certainly possible to transit a narrow span it does not necessarily mean that it is the safe thing to do. Just because you can do something doesn't mean that you should do it.

I-49 Run 8

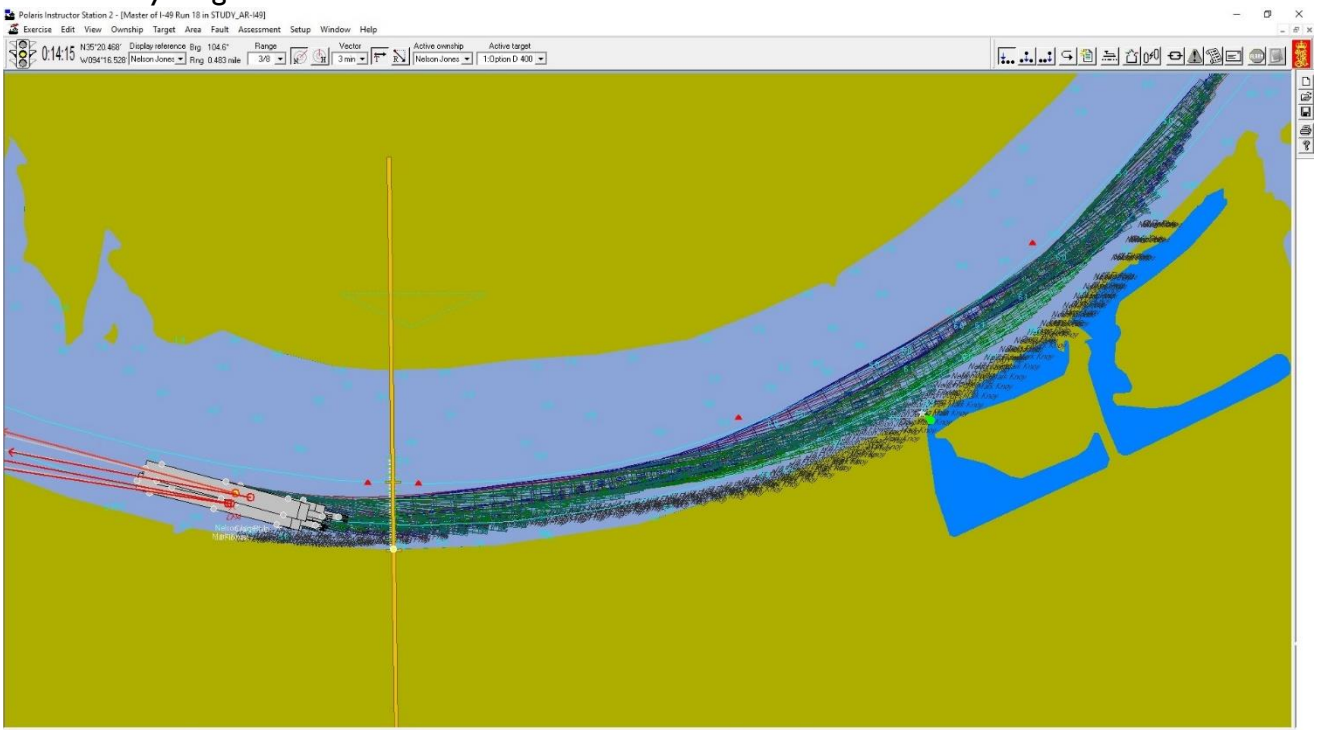
Horizontal clearance: 400 ft
Current: Low
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 3 pilot2: 4 pilot5: 5 pilot4: 3 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 3 pilot2: 4 pilot5: 5 pilot4: 3 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 3 pilot2: 4 pilot5: 5 pilot4: 3 Average: 3.8
If additional AtoN are needed, where and how many?	pilot3: One upstream of the pier and one downstream of the pier. pilot2: As is no additional pilot5: Protection cell and/or buoys, immediately above and below.
What is challenging about this pier alignment?	pilot3: Limited room for maneuvering. pilot2: Current speed pilot5: Not really any worse than 435. pilot4: Too narrow
What is best about this pier alignment?	pilot3: Unobstructed shoreline. pilot2: Width pilot5: Don't see a best other than costs. pilot4: Nothing too narrow

I-49 Run 18

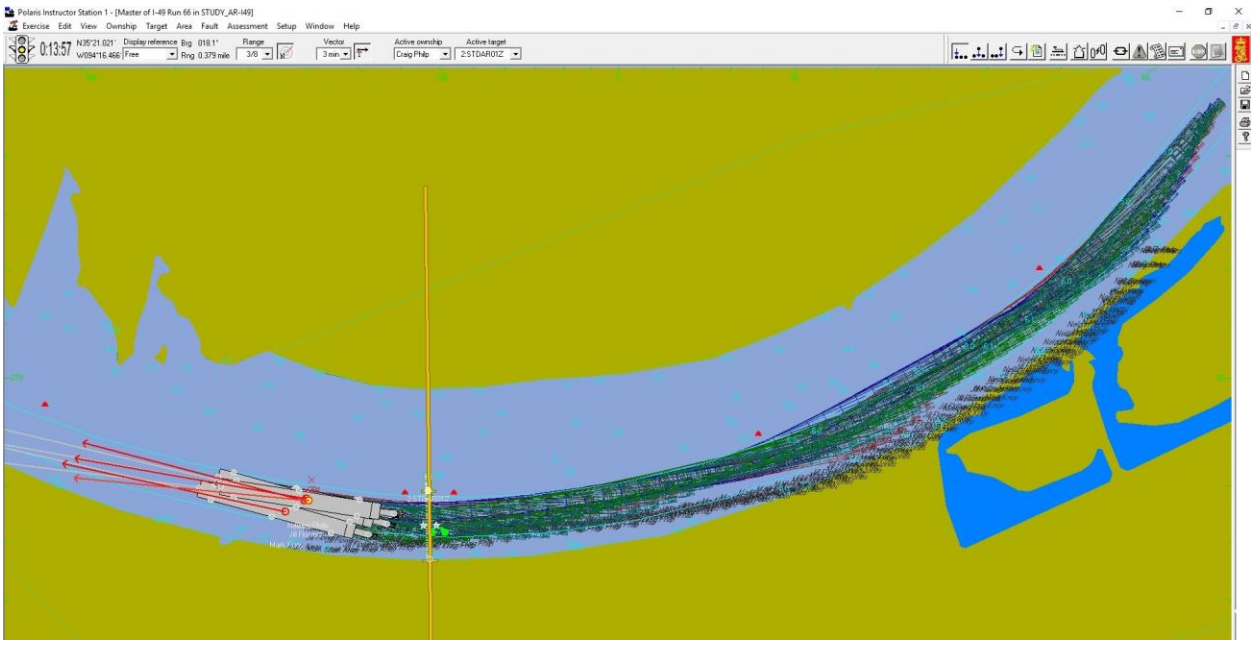
Horizontal clearance: 400 ft
Current: High
Tow Direction: Upstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot5: 4 pilot4: 3 pilot3: 4 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot5: 4 pilot4: 3 pilot3: 4 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot5: 4 pilot4: 3 pilot3: 4 Average: 3.8
If additional AtoN are needed, where and how many?	pilot2: Ok on this run pilot5: Protection cells and/or Buoys immediately above and below. pilot3: One upstream of the pier and one downstream of the pier.
What is challenging about this pier alignment?	pilot2: Current speed pilot5: Not very challenging at this direction. pilot4: It's narrow pilot3: Proper alignment.
What is best about this pier alignment?	pilot2: Width pilot5: It seems ok for 35 feet less than last simulation. pilot4: Nothing the 435-foot span is better pilot3: Unobstructed shoreline.

I-49 Run 66

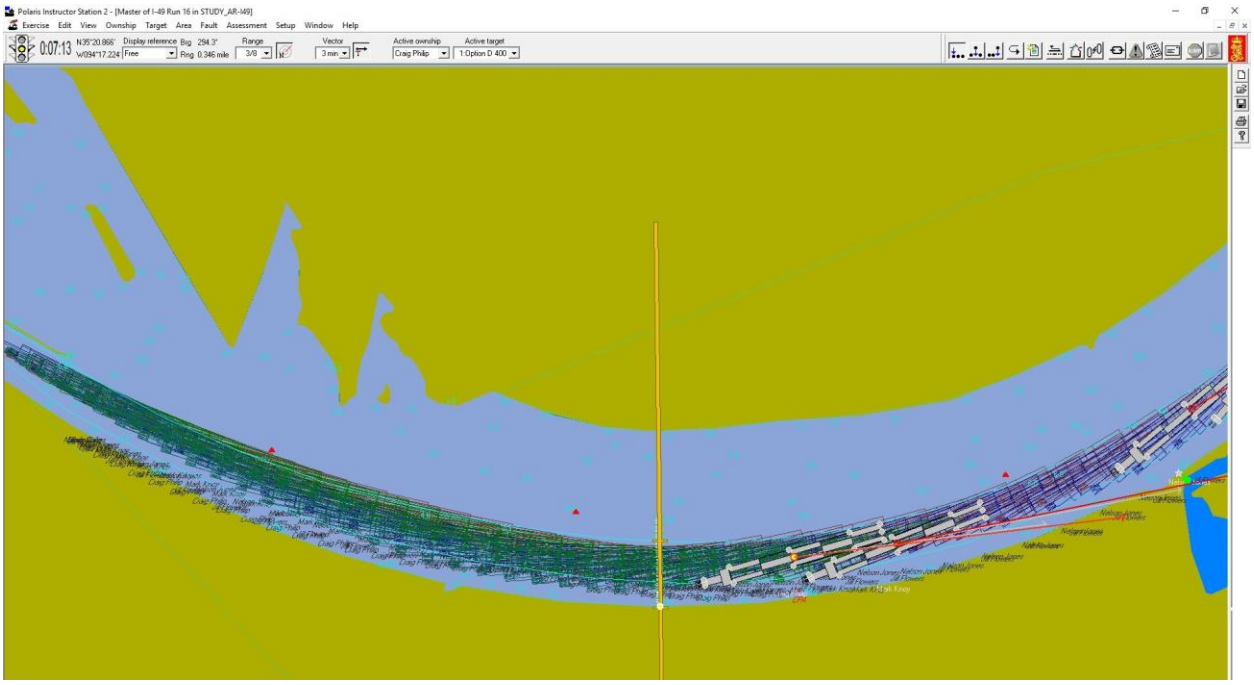
Horizontal clearance: 435 ft
Current: High
Tow Direction: Upstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot4: 4 pilot5: 5 pilot3: 3 pilot2: 4 Average: 4.0
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot4: 4 pilot5: 5 pilot3: 3 pilot2: 4 Average: 4.0
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot4: 3 pilot5: 5 pilot3: 4 pilot2: 4 Average: 4.0
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or Buoys, immediately above and below. pilot3: One upstream of the pier and one downstream of the pier. pilot2: No additional on this exercise
What is challenging about this pier alignment?	pilot4: A little narrow the 500-foot span is better pilot5: Not challenging in this scenario. pilot3: Setting up in a narrow channel and allowing sufficient stern room. pilot2: Current speed
What is best about this pier alignment?	pilot4: It's wider than the 400-foot span pilot5: The width, makes it easier to set up for the lock. pilot3: Unobstructed shoreline. pilot2: 435 width
Additional comments?	pilot2: This should be the width of channel span -435 to 415 for a safe passage

I-49 Run 16

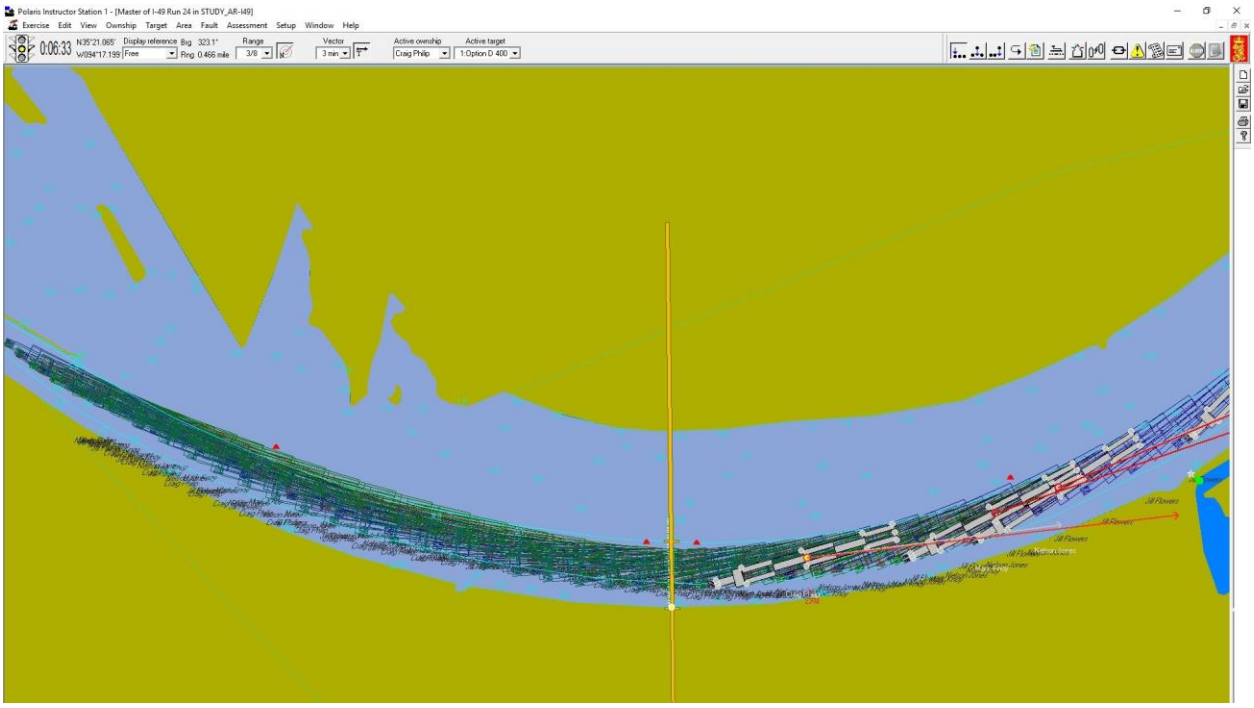
Horizontal clearance: 400 ft
Current: Medium
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot4: 3 pilot5: 5 pilot3: 3 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot4: 3 pilot5: 5 pilot3: 3 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot4: 3 pilot5: 5 pilot3: 3 Average: 3.8
If additional AtoN are needed, where and how many?	pilot2: Enough nav buoys where in pilot5: Protection cells and/or Buoys immediately above and below. pilot3: One upstream of the pier and one downstream of the pier.
What is challenging about this pier alignment?	pilot2: Current speed pilot4: Too narrow pilot5: Not really a challenge in this scenario. pilot3: Holding close to the pier to give yourself stern room to make the bend.
What is best about this pier alignment?	pilot2: Distance between piers pilot4: Nothing too narrow pilot5: Not bad, think the 435 alignment is better. pilot3: Unobstructed shoreline.
Additional comments?	pilot2: 15 Mays steered through just fine at 50,000 cfs pilot3: 435' is minimal for this bridge 450' is much more while 500' is preferable.

I-49 Run 24

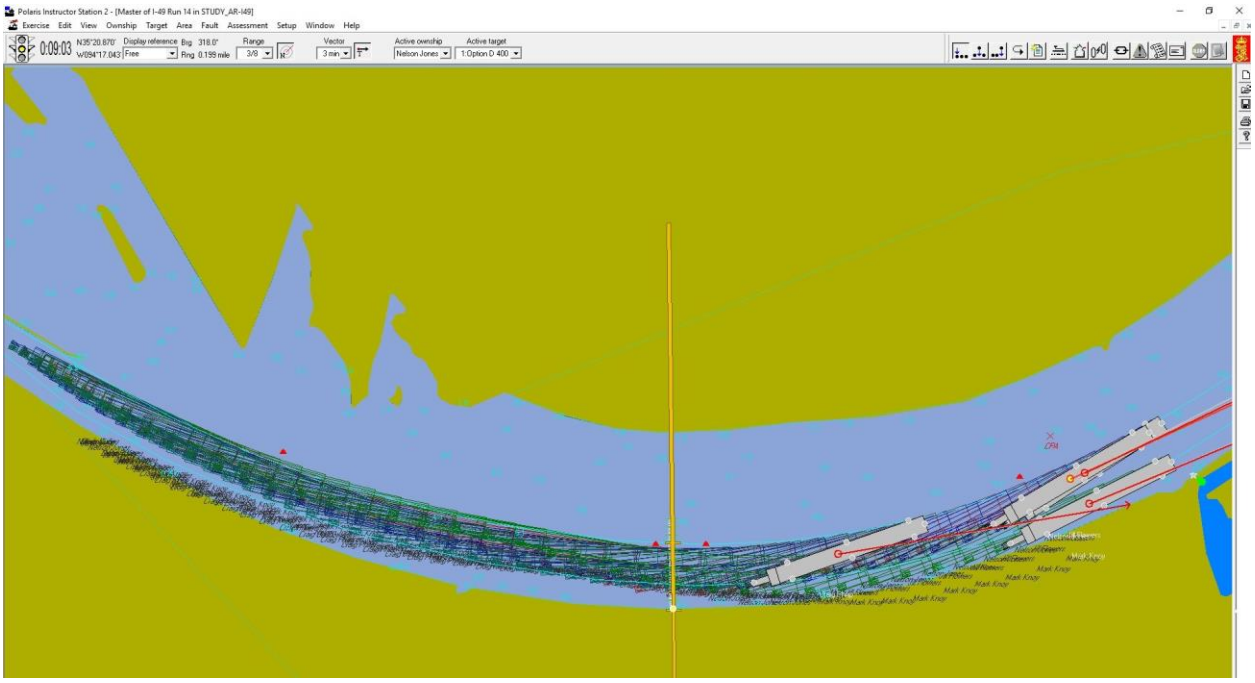
Horizontal clearance: 400 ft
Current: High
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot5: 4 pilot2: 4 pilot4: 3 pilot3: 3 Average: 3.5
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot5: 4 pilot2: 4 pilot4: 3 pilot3: 3 Average: 3.5
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot5: 4 pilot2: 4 pilot4: 3 pilot3: 3 Average: 3.5
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or Buoys immediately above and below. pilot2: Ok for this survey pilot3: One upstream of the pier and one downstream of the pier.
What is challenging about this pier alignment?	pilot5: Little harder than 435, but not unreasonably so. pilot2: Current speed and wind pilot4: It's too narrow pilot3: The width of the span.
What is best about this pier alignment?	pilot5: 435 is better, but not unreasonably difficult. pilot2: Width of channel span pilot4: Nothing it's too narrow pilot3: Unobstructed shoreline.
Additional comments?	pilot2: Bridge can be made safely in this scenario pilot3: Whether a pilot has 1,5,10 or 20 years of experience, the first time they transit this bridge they will be inexperienced.

I-49 Run 14

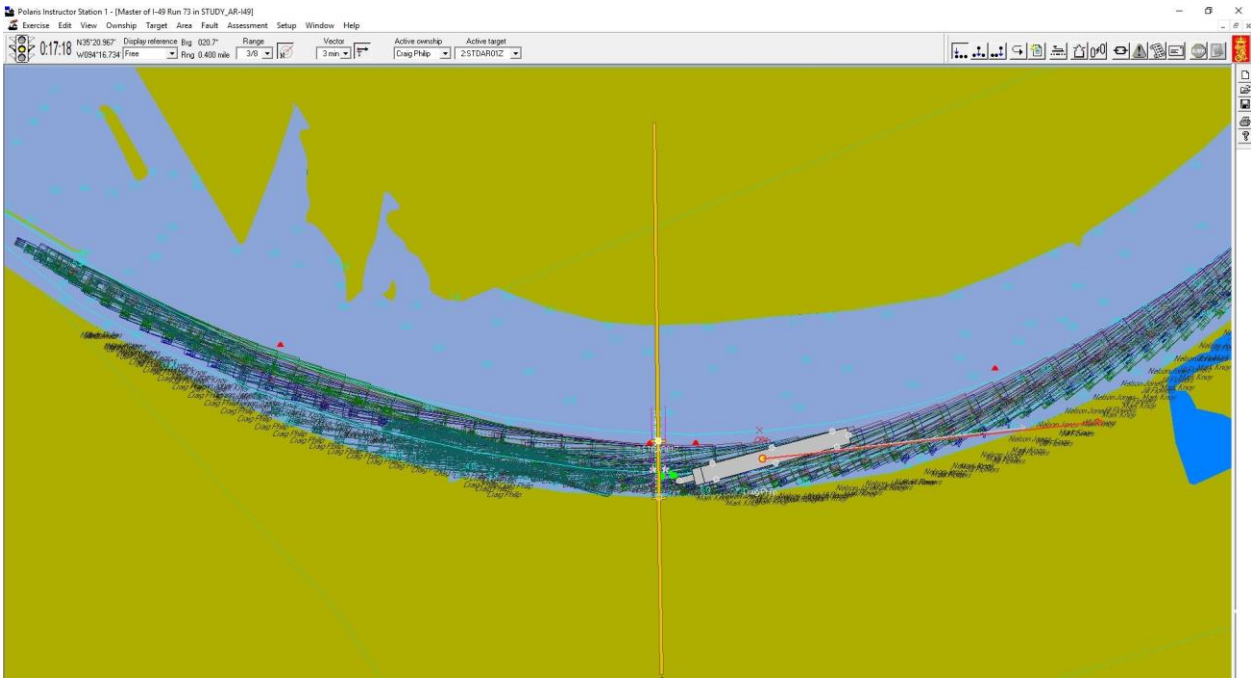
Horizontal clearance: 400 ft
Current: Medium
Tow Direction: Downstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot3: 3 pilot5: 4 pilot4: 3 Average: 3.5
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot3: 3 pilot5: 4 pilot4: 3 Average: 3.5
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot3: 3 pilot5: 4 pilot4: 3 Average: 3.5
If additional AtoN are needed, where and how many?	pilot2: Ok now pilot3: One upstream of the pier and one downstream of the pier. pilot5: Protection cells and/or Buoys immediately above and below.
What is challenging about this pier alignment?	pilot2: River current pilot3: The bend below the bridge. pilot5: Little tighter than 435, but not unreasonably so. pilot4: It's too narrow
What is best about this pier alignment?	pilot2: Width pilot3: Unobstructed shoreline. pilot5: Not better than 435, but not unreasonably so. pilot4: Nothing it's too narrow
Additional comments?	pilot2: 435 was safer feeling pilot3: I noticed that no matter how I have set up there is a tendency to slide to the bank because of the bend below the bridge.

I-49 Run 73

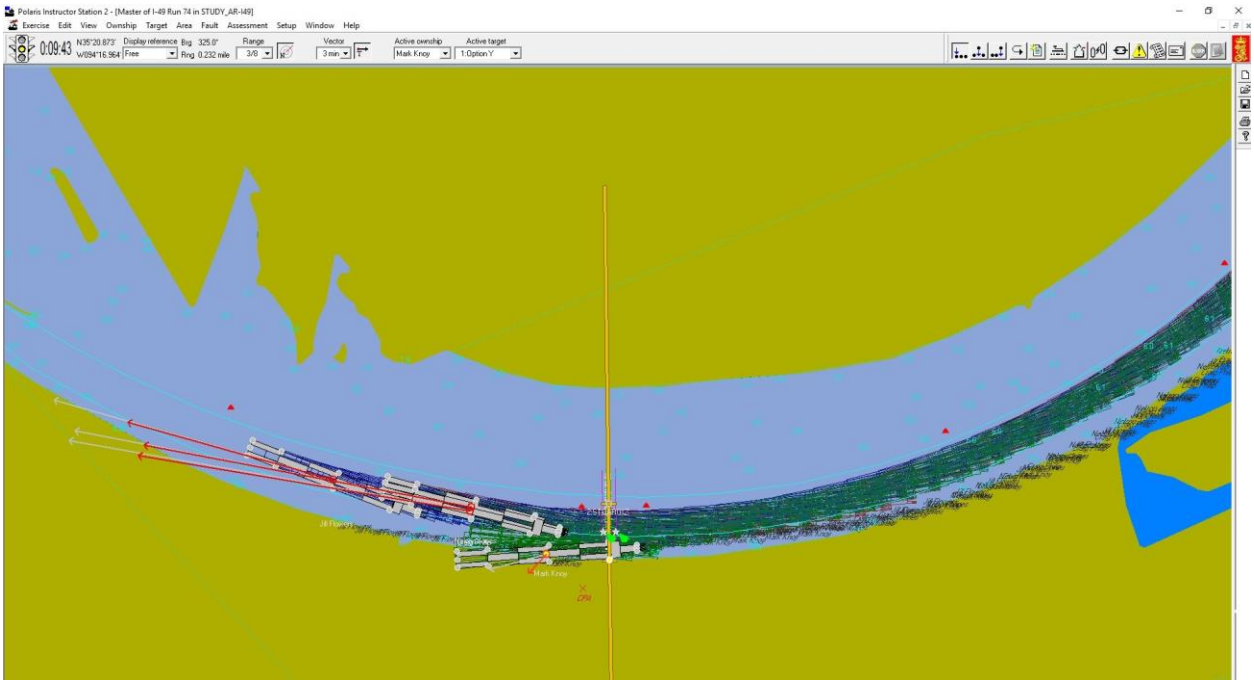
Horizontal clearance: 350 ft
Current: Med
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 2 pilot4: 2 pilot5: 3 pilot2: 2 Average: 2.2
If the maneuvering room is rated below 3, please explain why.	pilot3: 350' n'est pa. pilot4: Too narrow pilot2: To tight to be safe
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 2 pilot4: 2 pilot5: 3 pilot2: 2 Average: 2.2
If overall navigational safety is rated below 3, please explain why.	pilot3: Too narrow pilot4: To narrow pilot2: To tight not safe
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 2 pilot4: 2 pilot5: 3 pilot2: 2 Average: 2.2
If overall navigational difficulty is rated below 3, please explain why.	pilot3: Too narrow. pilot4: Too narrow pilot2: Left pier to tight to be safe
If additional AtoN are needed, where and how many?	pilot3: One upstream of the pier and one downstream of the pier. pilot5: Protection cells and/or Buoys immediately above and below. pilot2: Needs cells above left descending pier and below
What is challenging about this pier alignment?	pilot3: Very narrow span. pilot4: It's too narrow pilot5: Setting up for the rest of the bend below. Hooked up and raced the bank till the next red buoy. pilot2: Channel span too tight to navigate safely
What is best about this pier alignment?	pilot3: Unobstructed shoreline for running into. pilot4: Nothing it's too narrow pilot5: Nothing!!! pilot2: Nothing
Additional comments?	pilot5: Too narrow for this tow at this stage unless you flank it thru. pilot2: Not safe for all river conditions

I-49 Run 74

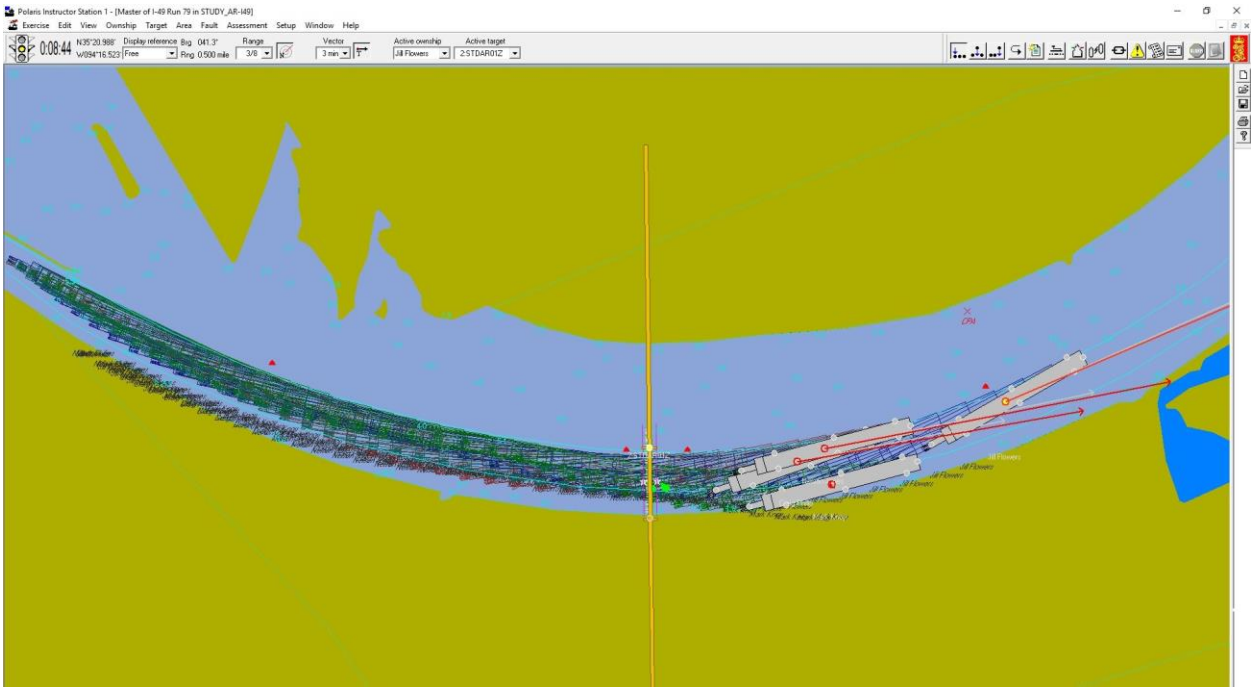
Horizontal clearance: 350 ft
Current: Med
Tow Direction: Upstream
Tow: 15 E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 2 pilot5: 3 pilot4: 3 pilot2: 3 Average: 2.8
If the maneuvering room is rated below 3, please explain why.	pilot3: Too narrow for me. Should have held pier closer, ran out of stern room.
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 2 pilot5: 3 pilot4: 3 pilot2: 3 Average: 2.8
If overall navigational safety is rated below 3, please explain why.	pilot3: Too narrow.
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 2 pilot5: 3 pilot4: 3 pilot2: 3 Average: 2.8
If overall navigational difficulty is rated below 3, please explain why.	pilot3: Too narrow.
If additional AtoN are needed, where and how many?	pilot3: One upstream of the pier and one downstream of the pier. pilot5: Protection cells and/or Buoys immediately above and below. pilot2: Cell above and below left descending pier
What is challenging about this pier alignment?	pilot3: Not enough room to maneuver. pilot5: Having room to stay under your tow and not hit the bank. Really tight for 15 at any stage. pilot4: Too narrow pilot2: Too tight for safe passage
What is best about this pier alignment?	pilot3: Good bank to land on when you can't make it. pilot5: Nothing at all. pilot4: Nothing too narrow pilot2: Nothing
Additional comments?	pilot2: Too tight for safe passage in all river stages

I-49 Run 79

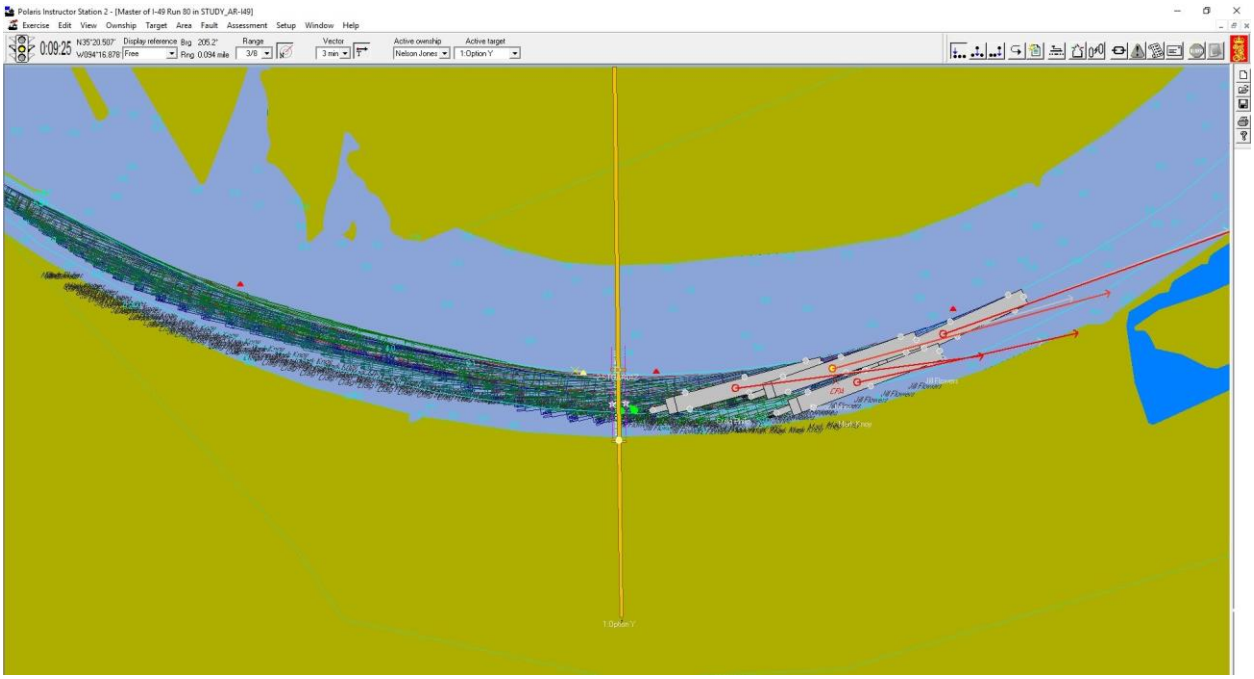
Horizontal clearance: 415 ft
Current: Med
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot5: 5 pilot3: 3 pilot2: 4 pilot4: 3 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot5: 5 pilot3: 3 pilot2: 4 pilot4: 3 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot5: 5 pilot3: 3 pilot2: 4 pilot4: 3 Average: 3.8
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or Buoys immediately above and below. pilot3: One upstream of the pier and one downstream of the pier. pilot2: No additional changes
What is challenging about this pier alignment?	pilot5: Not really different from 435, held left pier a little closer but still at a safe distance. pilot3: Narrow pilot2: Not challenging as is pilot4: It's too narrow
What is best about this pier alignment?	pilot5: This is a question for USCG and designers and USACOE. By moving the left pier further from the channel could be a selling point, but I don't know how close or how far or at what stage an MTY barge could get to it. pilot3: Unobstructed shoreline. pilot2: Width pilot4: Nothing it's too narrow
Additional comments?	pilot3: Loss of situational awareness and made a square turn and slid into the bank. pilot2: Felt good at this width

I-49 Run 80

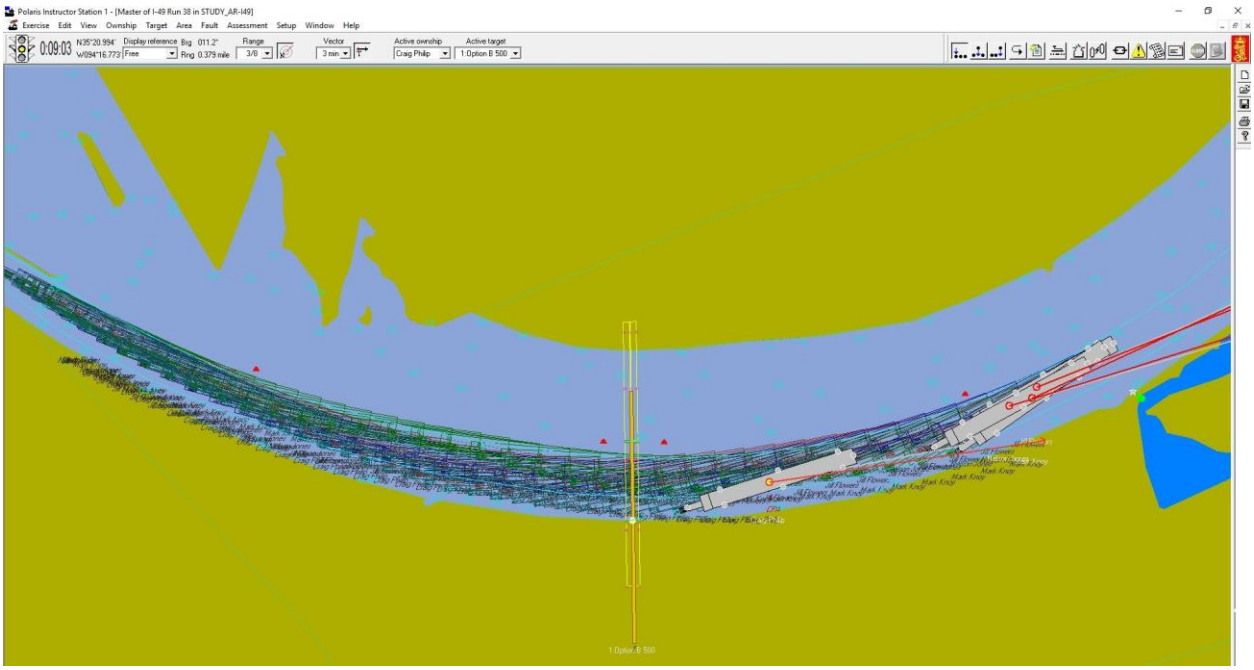
Horizontal clearance: 415 ft
Current: Low
Tow Direction: Downstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 4 pilot4: 3 pilot2: 4 pilot5: 5 Average: 4.0
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 3 pilot4: 3 pilot2: 4 pilot5: 5 Average: 3.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 4 pilot4: 3 pilot2: 4 pilot5: 5 Average: 4.0
If additional AtoN are needed, where and how many?	pilot3: One upstream of the pier and one downstream of the pier. pilot2: No additional aids pilot5: Protection cells and/or Buoys immediately above and below.
What is challenging about this pier alignment?	pilot3: Set up within the 415' span. pilot4: 435-foot span was better pilot2: Not much easy steer pilot5: Not really, feels a lot like the 435 scenario.
What is best about this pier alignment?	pilot3: Having somewhere to land and regroup. pilot4: Nothing pilot2: Width pilot5: If the powers that be decide it's safer to move the left pier further from the channel, I can't see it being any more or less difficult.

I-49 Run 38

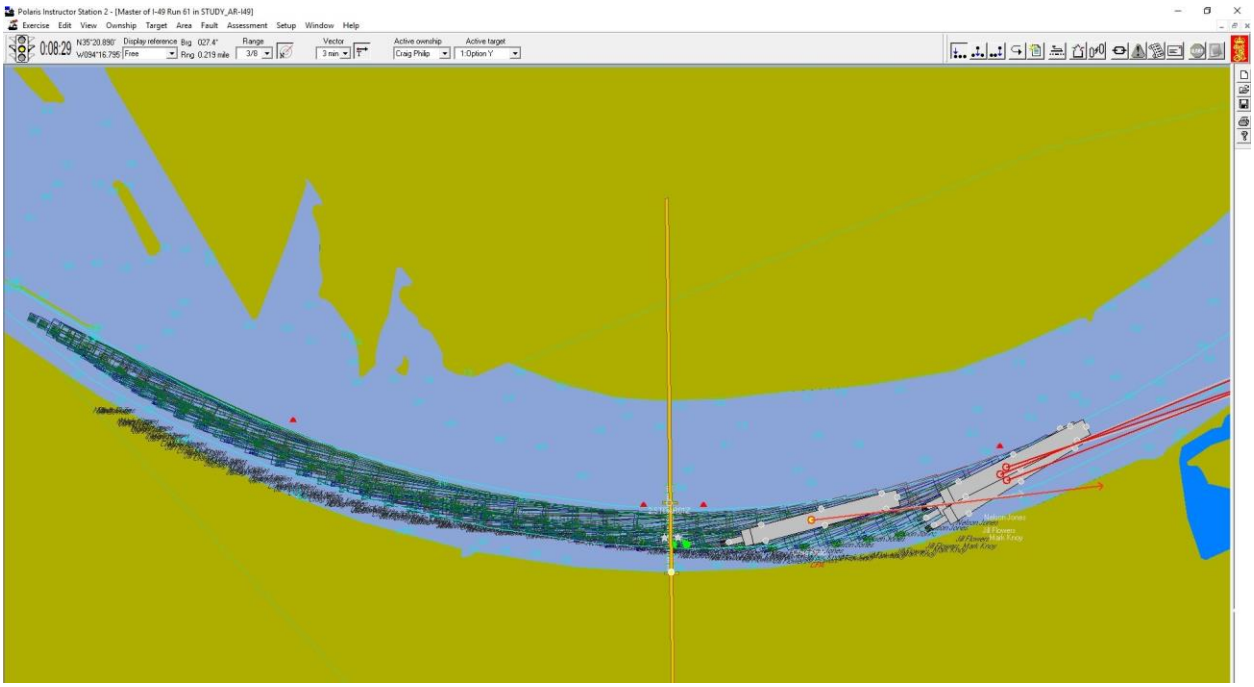
Horizontal clearance: 500 ft
Current: Medium
Tow Direction: Downstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot5: 5 pilot3: 5 pilot6: 5 pilot2: 4 Average: 4.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot5: 5 pilot3: 4 pilot6: 5 pilot2: 4 Average: 4.5
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot5: 5 pilot3: 5 pilot6: 5 pilot2: 4 Average: 4.8
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or buoys immediately above and below. pilot3: One above the pier and one below the pier. pilot2: None needed
What is challenging about this pier alignment?	pilot5: No challenge. pilot3: Nothing. pilot6: No challenges seen. pilot2: Current speed
What is best about this pier alignment?	pilot5: Easy to make but not in line with other bridges on the MKARNS. pilot3: Significant room. Very safe. pilot6: Width, sufficient room for minor errors in navigation or natural elements that may affect approach. pilot2: Width
Additional comments?	pilot3: This is how bridges should be. Sufficient room to navigate. pilot6: None pilot2: Plenty room for steering 15 lids s/b in any river stage

I-49 Run 61

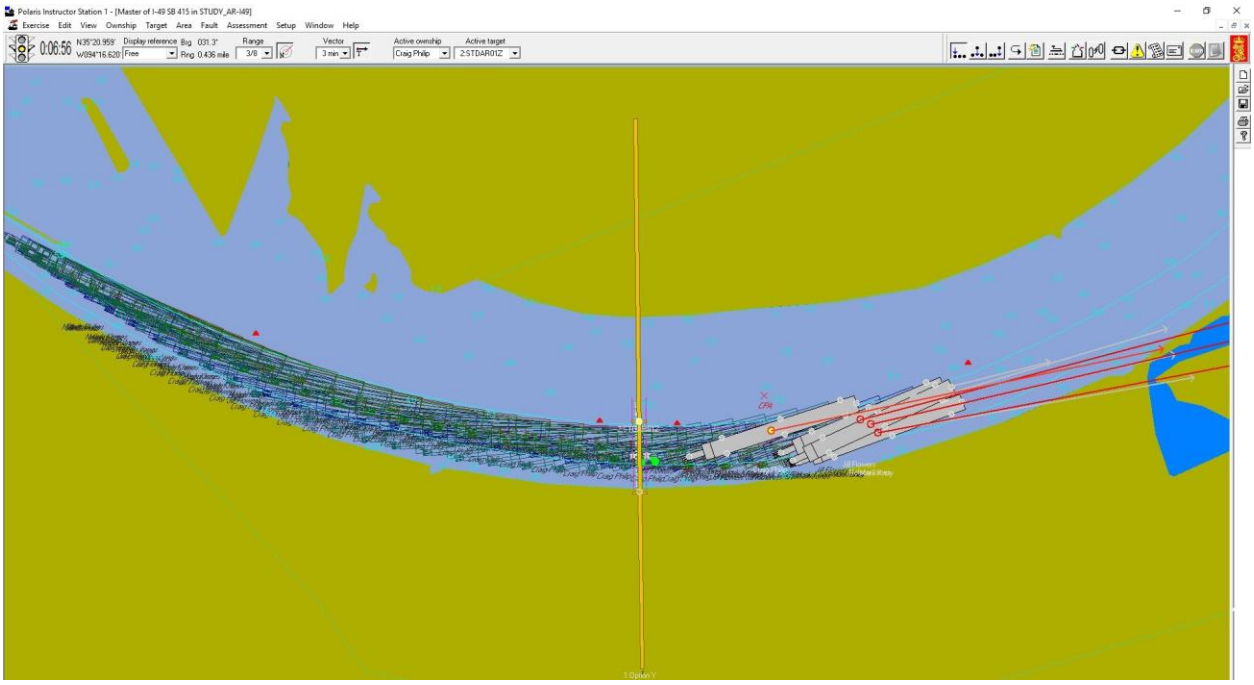
Horizontal clearance: 435 ft
Current: Medium
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 4 pilot5: 5 pilot6: 4 pilot2: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 4 pilot5: 5 pilot6: 4 pilot2: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 3 pilot5: 5 pilot6: 4 pilot2: 4 Average: 4.0
If additional AtoN are needed, where and how many?	pilot3: One above the pier and one below the pier. pilot5: Protection cells and/or buoys immediately above and below. pilot2: Good for this run
What is challenging about this pier alignment?	pilot3: Holding closer to the pier to leave stern room for steering. pilot5: Not very challenging. pilot6: From the larger span of 500' to this 435', you will have to be more proactive in navigational thought on setting up to transit successfully. pilot2: Current speed
What is best about this pier alignment?	pilot3: Unobstructed bank. pilot5: Plenty of room at this flow rate. pilot6: Still enough room to have your turn completed above the bridge and let the tow and vessel fall/set through the bridge span. No hard steering before after the bridge span. pilot2: Width
Additional comments?	pilot6: May require a navigational aid on the upstream side of left descending pier for alignment in navigation. Will allow to know where the flat side of the pier is.

I-49 Run 81

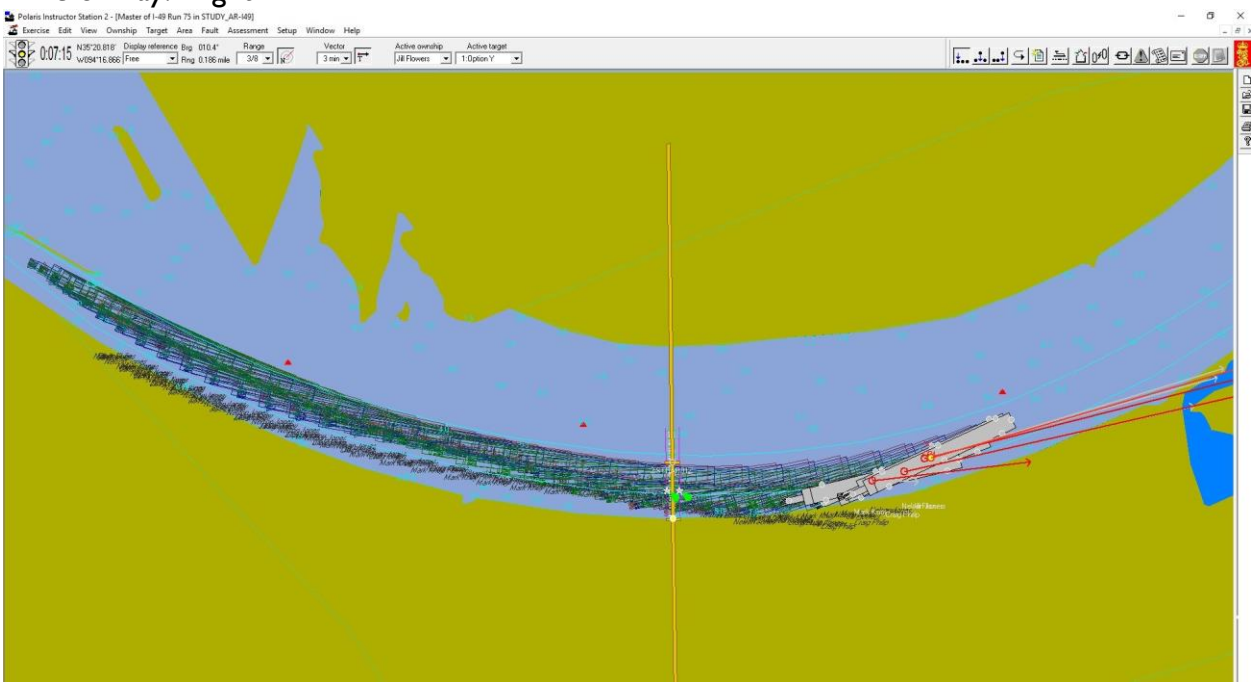
Horizontal clearance: 415 ft
Current: High
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot6: 3 pilot5: 5 pilot2: 4 pilot3: 3 Average: 3.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot6: 2 pilot5: 5 pilot2: 4 pilot3: 3 Average: 3.5
If overall navigational safety is rated below 3, please explain why.	pilot6: With higher flow and starting out of the lock the tow and vessel would not have the best handling characteristics until you get a lot of water moving through your wheels and past your rudders. Therefore, I would consider flanking this area.
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot6: 3 pilot5: 5 pilot2: 4 pilot3: 3 Average: 3.8
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or buoys immediately above and below. pilot2: Good or this run pilot3: One above the pier and one below the pier.
What is challenging about this pier alignment?	pilot6: Narrow conditions in high flow. Would flank in extreme conditions. pilot5: Little more at this stage just have to hold left pier a little closer. pilot2: Current speed pilot3: Narrow span. Leaving less room to maneuver which potentially leaves less stern room.
What is best about this pier alignment?	pilot6: Still navigable pilot5: Keeps in line with other bridges on the MKARNS. pilot2: Width pilot3: Unobstructed bank.
Additional comments?	pilot6: Would rather have the 435' span. Without having sufficient room to keep steering or not able to account for the slide of the weight of the tow makes this more challenging to the mariner.

I-49 Run 75

Horizontal clearance: 350 ft
Current: High
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Night

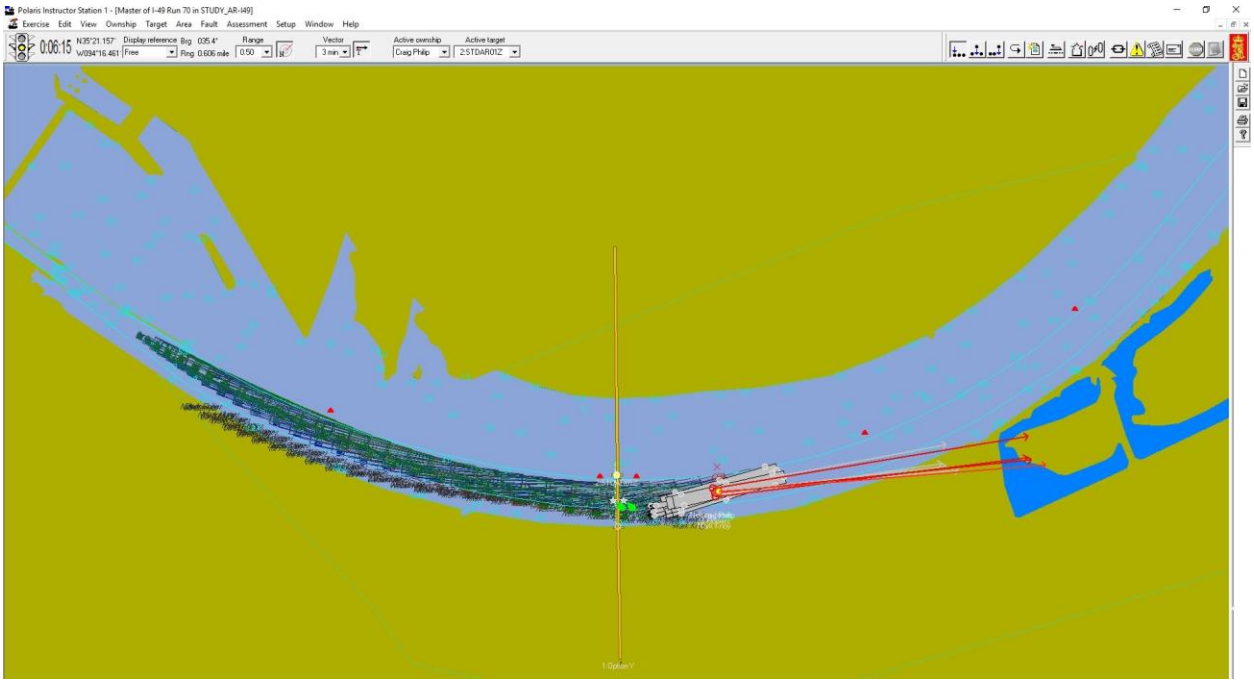


Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot5: 3 pilot2: 2 pilot6: 1 pilot3: 2 Average: 2.0
If the maneuvering room is rated below 3, please explain why.	pilot2: Too tight for all flows pilot6: Not enough room to safely navigate repetitively. Would flank this span width and current. Would like to run the simulation again and try the flanking setup. Wanted to steer and see what amount of room was needed. There was not enough room between bank and pier from head to stern. More room needed to have a larger approach angle to offset the current vs speed vs slide weight. pilot3: Insufficient room to maneuver, doesn't allow room to steer after clearing the bridge.

Question	Answers
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot5: 3 pilot2: 2 pilot6: 1 pilot3: 2 Average: 2.0
If overall navigational safety is rated below 3, please explain why.	pilot2: It safe at all flows pilot6: Not enough horizontal clearance pilot3: To narrow to safely transit.
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot5: 3 pilot2: 2 pilot6: 2 pilot3: 2 Average: 2.2
If overall navigational difficulty is rated below 3, please explain why.	pilot2: Too tight between bank and left descending pier pilot6: Not saying it can't be transited. On average transits higher risk for failure pilot3: You can make the bridge, but you run out of room below the bridge.
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or buoys immediately above and below. pilot2: Cells above pier and below pilot3: One above the pier and one below the pier.
What is challenging about this pier alignment?	pilot5: To narrow with this tow and current. pilot2: Narrow pilot6: The horizontal clearance pilot3: Too narrow, small span reduces options.
What is best about this pier alignment?	pilot5: Nothing about this is best. pilot2: Nothing pilot6: Having the right descending pier on dry ground that way it's not in the way if you have to do a controlled landing while in the span or misjudge and have a bank allision. pilot3: Nothing…
Additional comments?	pilot5: Really don't like this, too narrow for a bend. pilot2: Too narrow for high flows to be safe pilot6: High risk to mariner navigation, would be a flank.

I-49 Run 70

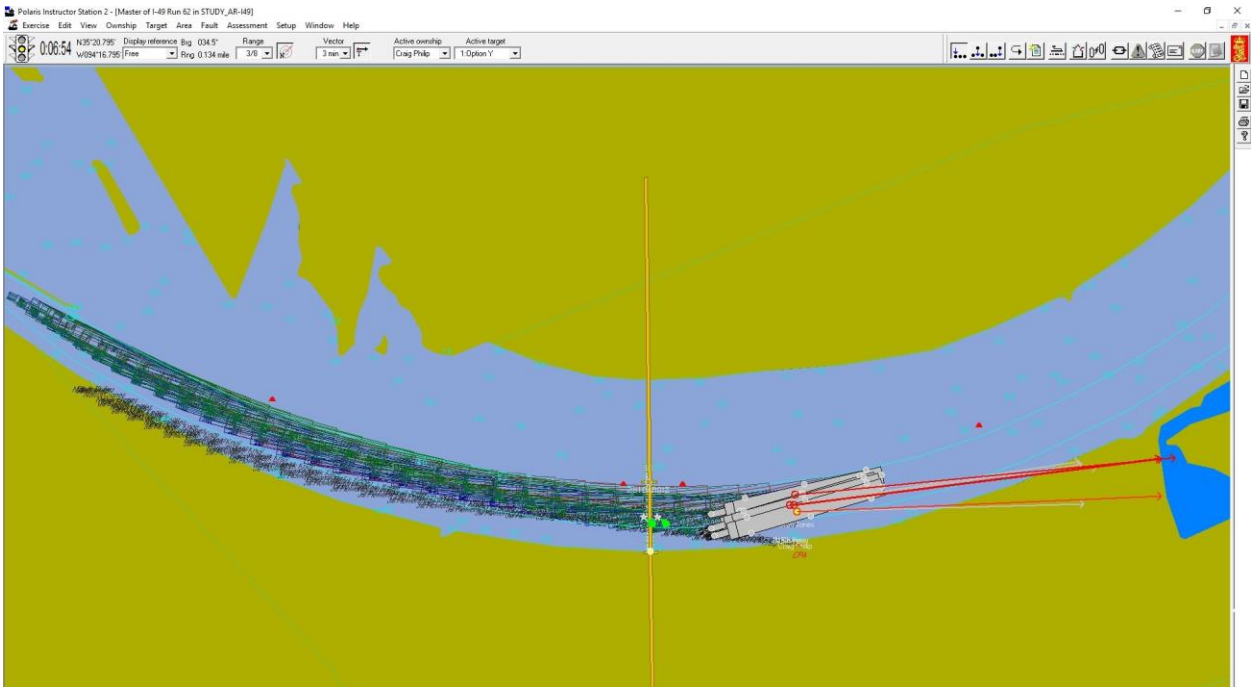
Horizontal clearance: 435 ft
Current: High
Tow Direction: Downstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot6: 4 pilot2: 4 pilot3: 4 pilot5: 5 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot6: 4 pilot2: 4 pilot3: 3 pilot5: 5 Average: 4.0
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot6: 4 pilot2: 4 pilot3: 4 pilot5: 5 Average: 4.2
If additional AtoN are needed, where and how many?	pilot2: No additional pilot3: One above the pier and one below the pier. pilot5: Protection cells and/or buoys immediately above and below.
What is challenging about this pier alignment?	pilot6: No challenges pilot2: Current speed pilot3: Keeping your head close to the pier without losing stern room. pilot5: Not challenging at this flow.
What is best about this pier alignment?	pilot6: Enough width to safely navigate pilot2: Width of channel pilot3: Unobstructed shoreline. pilot5: Easily made. Actually, I stayed way clear of left pier this time.
Additional comments?	pilot6: None

I-49 Run 62

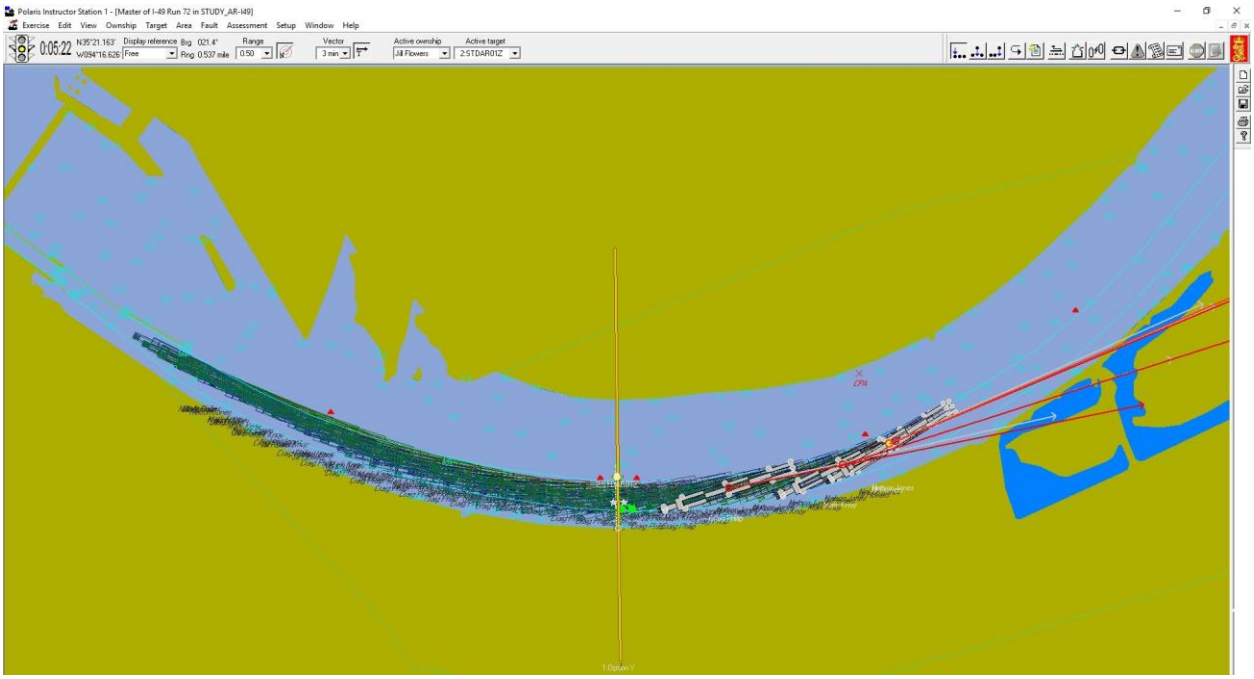
Horizontal clearance: 435 ft
Current: Medium
Tow Direction: Downstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 4 pilot2: 4 pilot5: 5 pilot6: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 4 pilot2: 4 pilot5: 5 pilot6: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 4 pilot2: 4 pilot5: 5 pilot6: 4 Average: 4.2
If additional AtoN are needed, where and how many?	pilot3: One above the pier and one below the pier. pilot2: No additional changes pilot5: Protection cells and/or buoys immediately above and below.
What is challenging about this pier alignment?	pilot3: Placing the head of the tow in just the correct proximity to the pier while mitigating the amount of slide. pilot2: Current speed pilot5: Not challenging at this flow, maintained 50-60 ft. from left pier. pilot6: None to note
What is best about this pier alignment?	pilot3: Having an unobstructed shoreline. pilot2: Width pilot5: Easily done even by less experienced pilots. pilot6: Horizontal clearance
Additional comments?	pilot6: Best width so far

I-49 Run 72

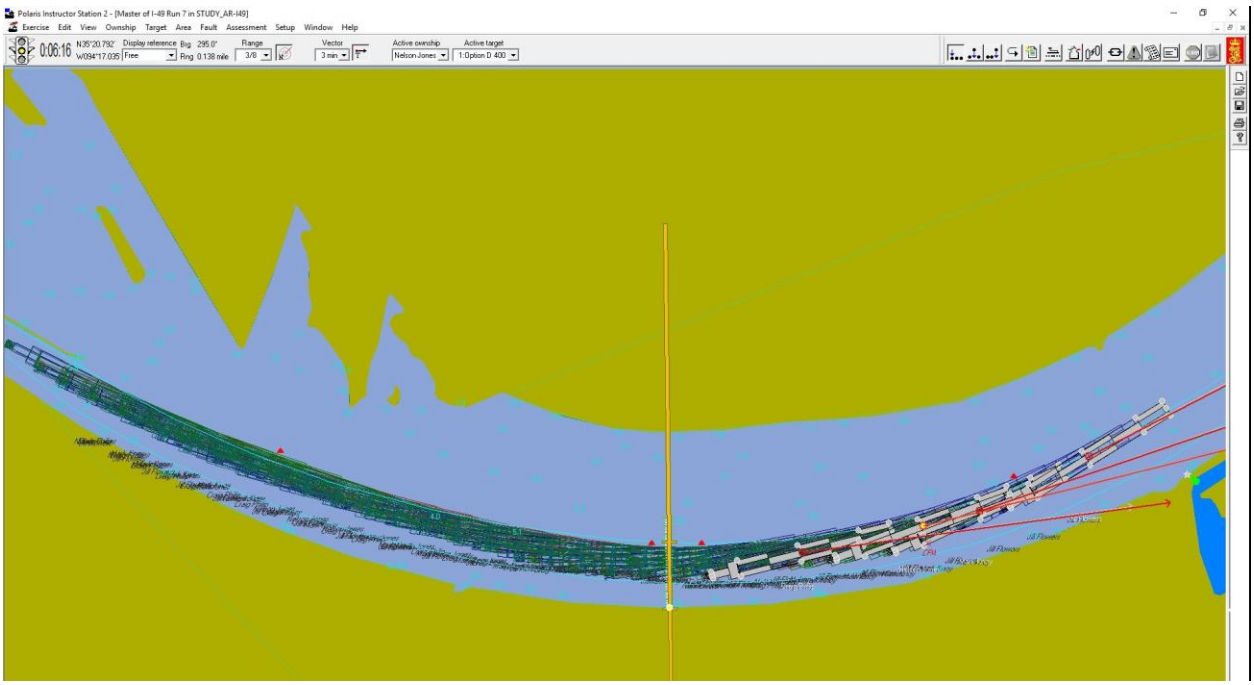
Horizontal clearance: 435 ft
Current: High
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot5: 5 pilot6: 4 pilot3: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot5: 5 pilot6: 4 pilot3: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot5: 5 pilot6: 4 pilot3: 4 Average: 4.2
If additional AtoN are needed, where and how many?	pilot2: Good for this run pilot5: Lighted protection cells and/or buoys immediately above and below. pilot3: One above the pier and one below the pier.
What is challenging about this pier alignment?	pilot2: High flow pilot5: Not really with this tow configuration. pilot6: None to Note pilot3: Proper alignment. Eliminating slide.
What is best about this pier alignment?	pilot2: Width pilot5: Easily made by less experienced pilots. pilot6: Horizontal Clearance pilot3: Unobstructed shoreline.
Additional comments?	pilot6: None

I-49 Run 7

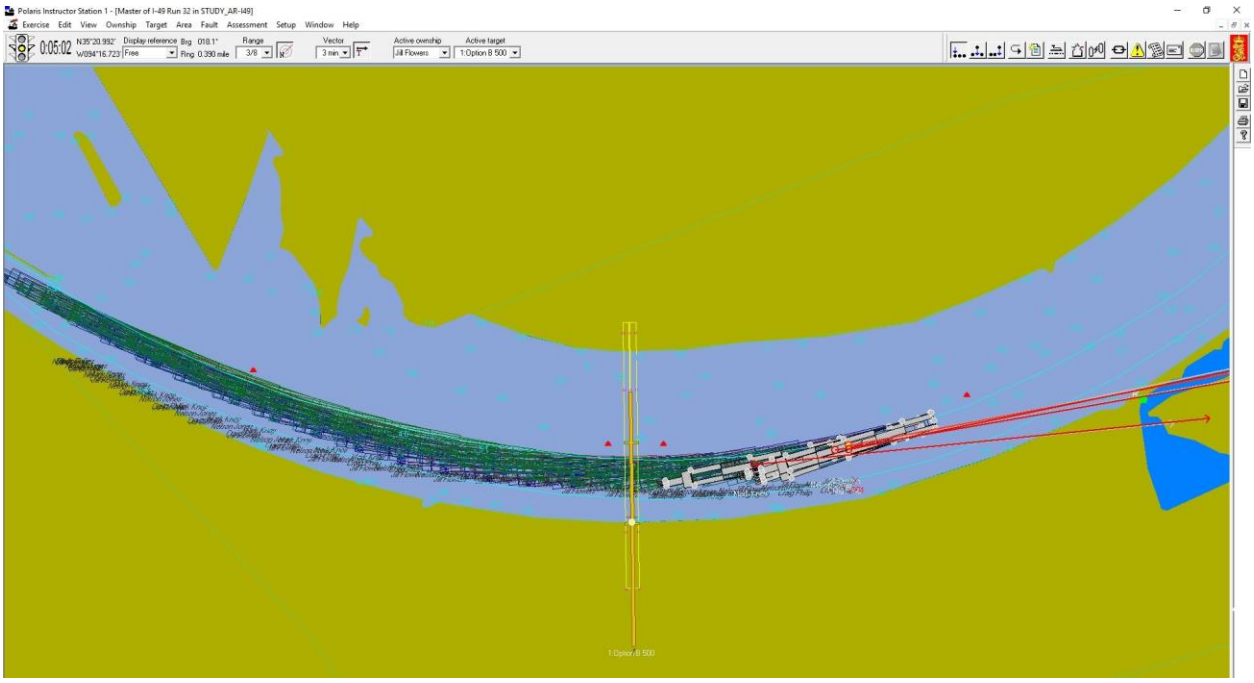
Horizontal clearance: 400 ft
Current: Low
Tow Direction: Downstream
Tow: 15E
Wind Speed: 0 mph
Time of Day: Night



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot3: 4 pilot5: 5 pilot6: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot3: 4 pilot5: 5 pilot6: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot3: 3 pilot5: 5 pilot6: 4 Average: 4.0
If additional AtoN are needed, where and how many?	pilot2: Ok for this run pilot3: One above the pier and one below the pier. pilot5: Protection cells and/or buoys immediately above and below.
What is challenging about this pier alignment?	pilot2: Night run pilot3: Accounting for set and slide. pilot5: Not very challenging at this flow and tow configuration. pilot6: None to note
What is best about this pier alignment?	pilot2: Width pilot3: Unobstructed shoreline. pilot5: Falls in line with the other bridges on the MKARNS and is more cost effective for Arkansas. pilot6: Horizontal clearance
Additional comments?	pilot6: None

I-49 Run 32

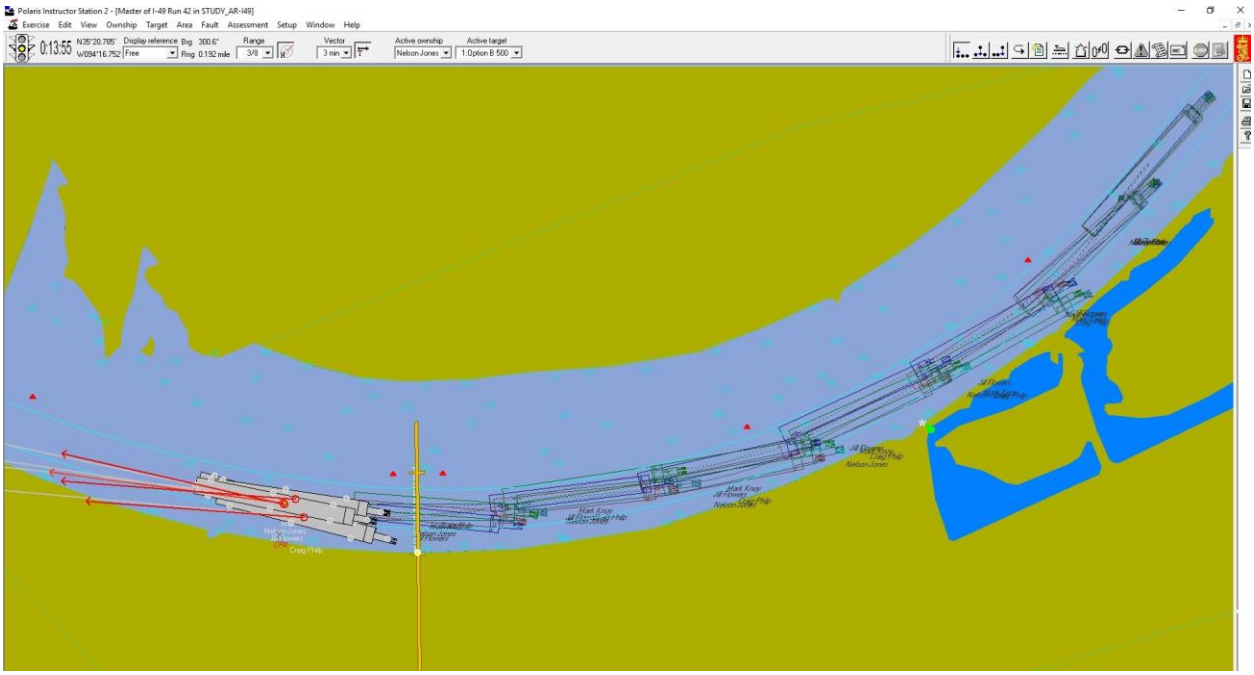
Horizontal clearance: 500 ft
Current: Low
Tow Direction: Downstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot3: 5 pilot5: 5 pilot6: 5 Average: 4.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot3: 5 pilot5: 5 pilot6: 5 Average: 4.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot3: 5 pilot5: 5 pilot6: 5 Average: 4.8
If additional AtoN are needed, where and how many?	pilot2: No additional charges pilot3: One above the pier and one below the pier. pilot5: Protection cells and/or buoys immediately above and below.
What is challenging about this pier alignment?	pilot2: Not much pilot3: Not getting complacent. pilot5: Not a challenge at all. Probably a waste of money since this would be the widest bridge on the MKARNS. pilot6: None to note
What is best about this pier alignment?	pilot2: Width pilot3: Sufficient room to transit without steering a slide into the tow. Very safe, efficient transit. pilot5: Way to easy!! Might be a waste of money. pilot6: Could possibly allow extra traffic waiting/meeting spots above or below bridge
Additional comments?	pilot3: If safety is a priority and not money then this is your ideal bridge. pilot6: None

I-49 Run 42

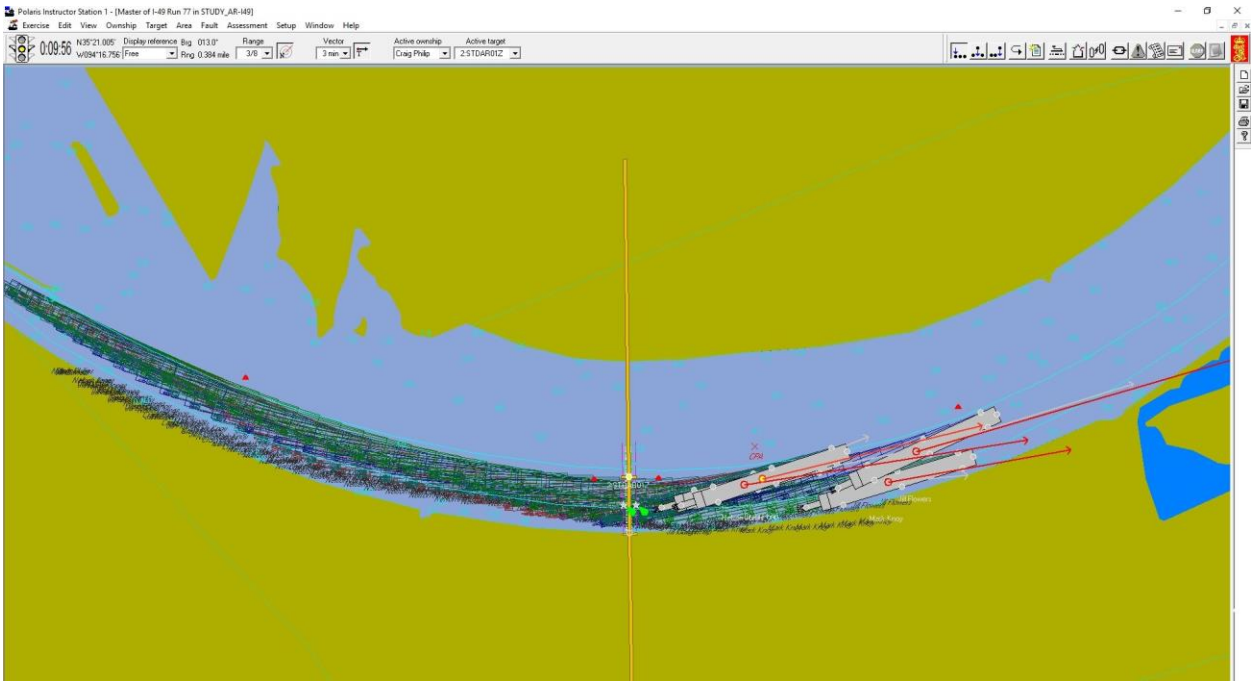
Horizontal clearance: 500 ft
Current: High
Tow Direction: Upstream
Tow: 15L
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot2: 4 pilot6: 5 pilot3: 5 pilot5: 5 Average: 4.8
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot2: 4 pilot6: 5 pilot3: 5 pilot5: 5 Average: 4.8
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot2: 4 pilot6: 5 pilot3: 5 pilot5: 5 Average: 4.8
If additional AtoN are needed, where and how many?	pilot2: Good for this pilot3: One above the pier and one below the pier. pilot5: Protection cells and/or buoys immediately above and below.
What is challenging about this pier alignment?	pilot2: Looks good pilot6: None to note pilot3: Avoiding complacency. pilot5: None, too much room.
What is best about this pier alignment?	pilot2: Width pilot6: Horizontal clearance pilot3: Sufficient space for safe passage. pilot5: To much room.
Additional comments?	pilot6: None pilot3: Ideal bridge if safety is your priority.

I-49 Run 77

Horizontal clearance: 350 ft
Current: Low
Tow Direction: Downstream
Tow: 15L
Wind Speed: 0 mph
Time of Day: Night

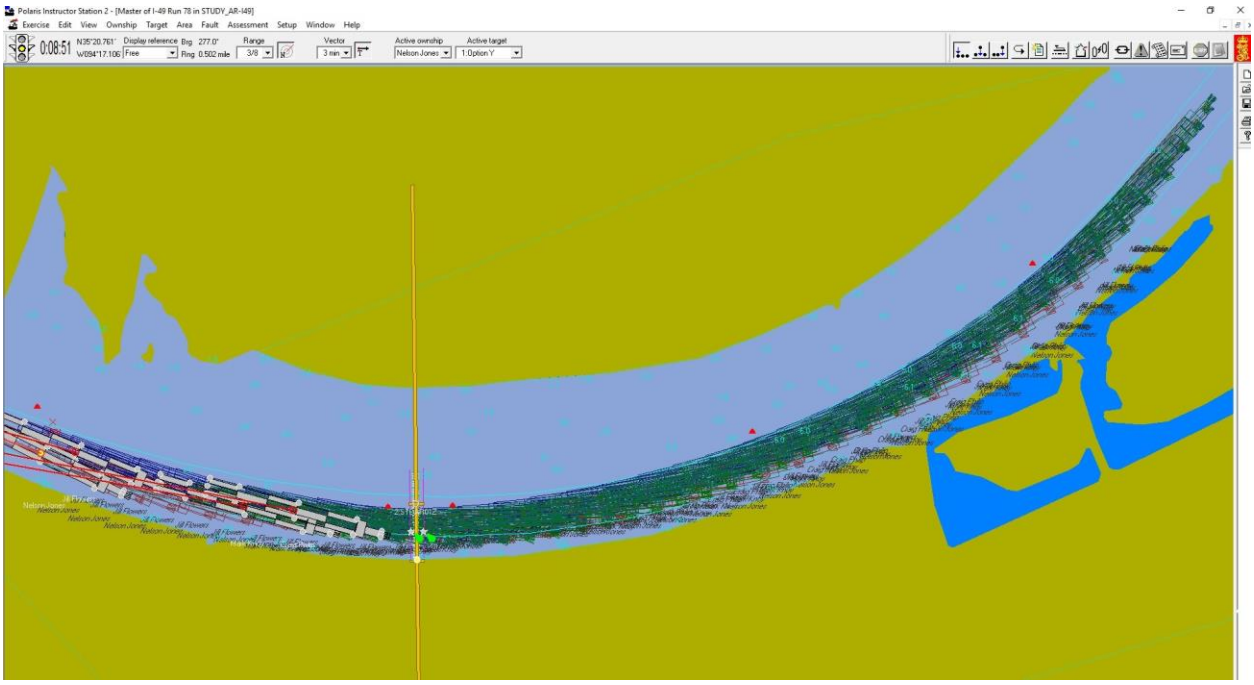


Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot6: 1 pilot3: 2 pilot5: 3 pilot2: 2 Average: 2.0
If the maneuvering room is rated below 3, please explain why.	pilot6: For the maneuver to take place you need more room to make and keep angle around the turn in the river. Not allowing enough room for slide of the weight happening. pilot3: Too narrow to avoid landing below the bridge. pilot2: Tight

Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot6: 1 pilot3: 2 pilot5: 3 pilot2: 2 Average: 2.0
If overall navigational safety is rated below 3, please explain why.	pilot6: It is a challenge and high risk to transit safely pilot3: Too narrow. pilot2: Too tight
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot6: 1 pilot3: 2 pilot5: 3 pilot2: 2 Average: 2.0
If overall navigational difficulty is rated below 3, please explain why.	pilot6: Not been able to complete either 350' span simulation due to room. pilot3: If you get through the bridge safely, you'll hit the bank below the bridge. pilot2: Tight fit
If additional AtoN are needed, where and how many?	pilot3: One above the pier and one below the pier. pilot5: Protection cells and/or buoys immediately above and below. pilot2: Crash cells
What is challenging about this pier alignment?	pilot6: Too narrow for southbound transits. pilot3: Avoiding impact with the bank. Narrow span forces you towards the LDB. pilot5: To tight, need to hold left pier more than I'm comfortable with. pilot2: Tight
What is best about this pier alignment?	pilot6: None to note pilot3: Nothing. pilot5: Nothing!! pilot2: Nothing
Additional comments?	pilot6: Not enough room to safely complete a steering maneuver pilot2: 350 ft is unsafe for all flows

I-49 Run 78

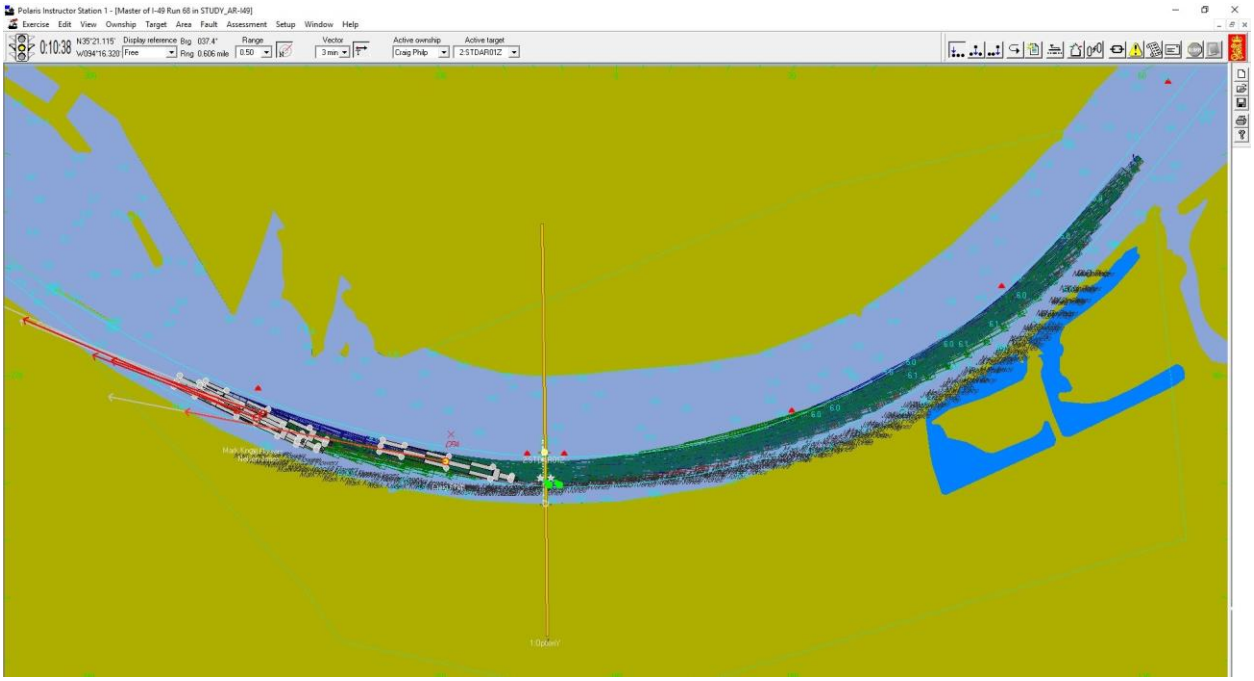
Horizontal clearance: 350 ft
Current: Low
Tow Direction: Upstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot3: 3 pilot6: 3 pilot2: 4 pilot5: 3 Average: 3.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot3: 3 pilot6: 3 pilot2: 4 pilot5: 3 Average: 3.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot3: 3 pilot6: 3 pilot2: 4 pilot5: 3 Average: 3.2
If additional AtoN are needed, where and how many?	pilot3: One above the pier and one below the pier. pilot2: Nothing additional pilot5: Protection cells and/or buoys immediately above and below.
How does this pier alignment causes an unreasonable impact on traffic/hold up points?	pilot6: May cause traffic to wait in different spots causing lock delays if it takes them longer to get to the lock.
What is challenging about this pier alignment?	pilot3: Avoiding being drafted towards the pier while also avoiding sliding into the bank. pilot6: Narrow, you have to over exaggerate your steer for any wind you may have pushing against your barges, therefore not having enough room to point your tow to allow safe transit. You would either land your head of tow on bank above bridge or steer your stern into right descending pier trying to get enough room to point against wind. pilot2: Current flow pilot5: To tight, forces you to cut the left descending pier to close.
What is best about this pier alignment?	pilot3: Unobstructed shoreline. pilot6: None to note pilot2: Channel width pilot5: Nothing!!
Additional comments?	pilot6: None

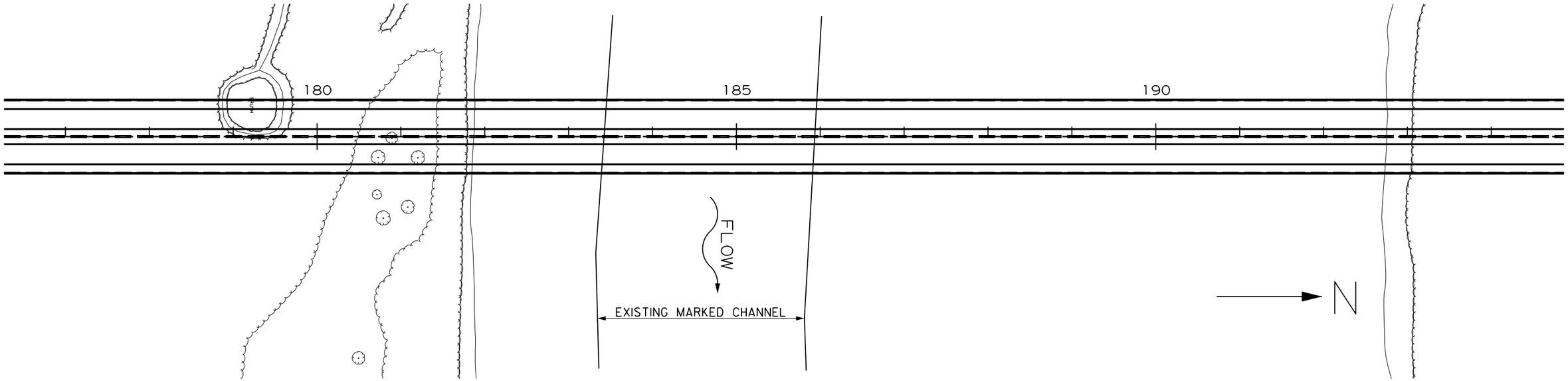
I-49 Run 68

Horizontal clearance: 435 ft
Current: High
Tow Direction: Upstream
Tow: 15E
Wind Speed: 10 mph
Time of Day: Day



Question	Answers
Please rate the maneuvering room in the navigation span:1 being you did not have enough room and 5 being you had significant room.	pilot6: 4 pilot5: 5 pilot2: 4 pilot3: 4 Average: 4.2
Rate the overall navigational safety of this pier alignment with 1 being unsafe and 5 being extremely safe.	pilot6: 4 pilot5: 5 pilot2: 4 pilot3: 4 Average: 4.2
Rate the overall navigational difficulty of this pier alignment with 1 being extremely difficult and 5 being not difficult at all.	pilot6: 4 pilot5: 5 pilot2: 4 pilot3: 4 Average: 4.2
If additional AtoN are needed, where and how many?	pilot5: Protection cells and/or buoys immediately above and below. pilot3: One above the pier and one below the pier.
What is challenging about this pier alignment?	pilot6: None to note pilot5: Not bad, plenty of room to play with. pilot2: Everything was good pilot3: Nothing
What is best about this pier alignment?	pilot6: The horizontal clearance pilot5: Little more than needed, believe it would be a cost analysis for this span. pilot2: Width pilot3: Unobstructed shoreline.
Additional comments?	pilot6: None pilot3: Please do not allow the dictates of finance overrule the mandates of safety. Build it as close to 500' as possible with safety being a priority. Keep personalities in mind when evaluating comments recognizing that there is a personality type that relishes a challenge and wants to prove how good they are. Build it for the average, prudent mariner who wants to wisely mitigate risks. Granted there are 300' spans on other bridges but they were built before we conceived of having 15 barge tows, let us not perpetuate the shortsightedness of the past with the mistakes of today. Thank you.

ATTACHMENT 2

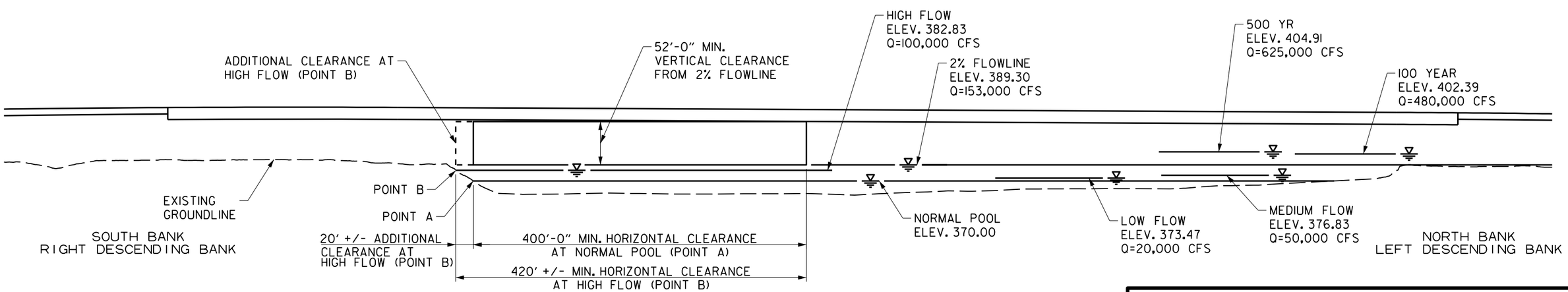


PLAN

SCALE

POINT A = INTERSECTION OF NORMAL POOL ELEVATION 370.00 AND BANK

POINT B = INTERSECTION OF HIGH FLOW ELEVATION 382.83 AND BANK



ELEVATION

CONCEPTUAL PLANS
NOT FOR CONSTRUCTION
12/10/2021

NOTES:
1. CLEARANCE ENVELOPE SHOWN IS THE MINIMUM REQUIRED FOR NAVIGATION. PIERS ARE NOT SHOWN. FINAL PIER PLACEMENT WILL BE LOCATED OUTSIDE THE CLEARANCE ENVELOPE.
2. WATER SURFACE ELEVATIONS MAY BE MODIFIED SLIGHTLY BASED ON THE FINAL HYDRAULIC MODEL FOR THE FINAL CONDITION.

ARDOT JOB 040748
HWY 22 TO I-40 (FUTURE I-49)
PROPOSED I-49 HIGHWAY BRIDGE

MILE 291.6 ARKANSAS RIVER
16591.1/291.6 ARR

NAVIGATION CLEARANCE ENVELOPE

Attachment 3 040748 USCG. SCAN

U.S. Department of Homeland Security
United States Coast Guard

Commander
Eighth Coast Guard District

1222 Spruce Street
St. Louis, MO 63103-2832
Staff Symbol: dwb
Phone: (314)269-2434
Fax: (314)269-2737
Email: allan.o.monterroza@uscg.mil

16591.1/291.6 ARR
February 21, 2018

Mr. Charles R. Ellis
Arkansas Department of Transportation
PO Box 2261
Little Rock, AR 77203-2261

Subj: PROPOSED I-49 HIGHWAY BRIDGE, MILE 291.6 ARKANSAS RIVER

Dear Mr. Ellis:

We have completed our navigational clearance review for the subject bridge project. Our review included input from the marine industry, Arkansas Waterway Commission, and the Little Rock District Army Corps of Engineers. Navigation span minimal clearance of the new bridge at the proposed location shall be:

a. Vertical: At least 52 feet clearance above 2 percent flowline elevation of 389.3 feet mean sea level m.s.l. (minimum elevation 441.3 m.s.l.)

b. Horizontal: At least 500 feet between the face of the left descending channel pier and the right descending bank, measured perpendicular to the axis of the channel. The right descending channel pier must be located out of the water on the right descending bank.

This is a preliminary determination. A final determination occurs after the end date or our public notice. Comments concerning the design of the bridge to withstand impacts from river traffic or to employ pier protection are needed and if possible, should be included in the environmental documentation for this project.

You may contact Mr. Allan Monterroza at the number listed above if additional information is needed.

Sincerely,

ERIC A. WASHBURN
Bridge Administrator, Western Rivers
By direction of the District Commander

ARKANSAS STATE HIGHWAY
AND TRANSPORTATION
DEPARTMENT

FEB 26 2018

RECEIVED
BRIDGE DIVISION

Attachment 4

Job 040748 – Hwy 22 to I-40 (Future I-49) - Task Order 161 (HNTB)
Arkansas River Bridge – USCG Meeting
Meeting Minutes
03/01/2021, 1:00 pm via WebEx

Attendees:
USCG - Eric Washburn & Allan Monterroza
ARDOT - Rick Ellis & Kyle Yeary
HNTB - Jim Kinder, Natalie McCombs, Steve Hague, Brent Jones, John Blancett, April English & Scott Inglish

1. **Introductions**

2. **Project Overview**
   a. Google Earth - Natalie provided a brief overview of the project and included the following items at the Arkansas River Bridge Location:
      i. New bridge is .9 Mile downstream from Lock and Dam
      ii. Schematic submitted to ARDOT in 2018
         - USCG requested 500' horizontal clearance in letter around the same time
         - Schematic initially included 3 span (360'-450'-360') providing 350' horizontal clearance and 52' vert clearance from 2% Flood.
      . 1970 bank stabilization plans show revetment and lock and dam 110' wide
      i. Channel widths from 1970 plans change from 400' to 325' near new bridge location.

3. **Channel Size and location**
   a. USCG Letter
      i. USCG Concerns: Horizontal and Vertical
         i. Project Type: Design Bid Build
         ii. Vertical
            1. Water can rise 15-20 feet quickly.
            2. 52' Vertical Clearance from 2% flow line
         iii. Horizontal
            1. Previous project letter from USCG was sent to ARDOT in 1997 as part of the US71 project. The proposed bridge at that time was 0.1 miles downstream of the current location and required a 500' horizontal clearance.
            2. The useable horizontal clearance of 500' is at normal pool elevation of 370.00 rather than the 2% flow line.
            3. Bridge is at bend in river, which makes horizontal clearances even more critical. As the barge tow rounds the bend, the tow is angled in relation to the bridge.
            4. USCG requested updated pdf from HNTB showing the horizontal clearance at Normal Pool elevation.
            5. USCG had previous discussions with tow boat operators regarding the clearance. The operators indicate a 500' clearance is needed in this area.
      ii. ARDOT's Concern:

i. Would like to keep southern Pier South of Revetment to avoid scour/revetment issues.
ii. 500' horizontal clearance could push superstructure bridge type out of a plate girder bridge range, which would increase cost substantially.

iii. HNTB inquired if USCG would entertain Seamen's Church Institute (SCI) simulations to evaluate a potential decrease in navigation span length
   i. USCG responded that they would entertain a study if it was deemed safe by SCI. USCG would establish 350' horizonal clearance as a very minimum. USCG indicated they could reach out to Industry again.
   ii. HNTB/ARDOT to discuss SCI simulations then reach back out to USCG. Then USCG can discuss with Industry.

4. Pier Protection/Vessel Collision

a. HNTB to design piers for Vessel Collision.
   i. USCG does not have any comments/issues.

b. USCG minimum design Vessel Data
   i. Design Tow Size, length, width, speed (3x4 or 3x5)
      - USCG believes the tows here are 3x5
      - USCG recommended HNTB contact Lockmaster/USACE.

   ii. Vessel transit path (one-way or two-way traffic)
      - USCG stated One-Way. USCG will verify traffic and referenced the ability to pull over and tie off at top of curve. Buoy line is 500-600ft so they have plenty of time to pull over and wait.

   iii. Special considerations near lock and dam
      - USCG stated no. HNTB to follow AASHTO.

5. Permit

a. Current documents
   - USCG will review documents when they are ready in various phases/stages of development. They do not have to wait for final report to review everything. Send pieces of documentation when it is ready for review.

   i. Bridge Permit Application Guide, July 2016
      - HNTB Environmental - HNTB doing an EIS Evaluation. Original EIS was in 1997. USCG will be a cooperating agency but will still want to do their own Record of Decision (ROD). USCG jurisdiction would be abutment to abutment.

   ii. Bridge Administration Manual, 2004

b. Timeline - HNTB schedule for ROD approval is in Nov 2022.
   - USCG - Will send letter to ARDOT for preliminary Horizontal Clearances. In USCG process there usually are no surprises. USCG doesn't need final EIS; EIS can be approximately 70% complete.

i. Review durations
   - USCG will give a 30 days public notice period. Typically, 90 days if USCG is the lead agency. FHWA is the lead agency for this project.

6. Other

a. Deck drains over the navigation span

USCG does not get into design. USCG has no comment.

b. Navigation lights

HNTB will provide as design progresses. USCG will issue a lighting plan with permit.

c. Clearance Gauges

HNTB will provide. USCG indicated that clearance gauges will be required on both sides of the left descending pier since the right descending pier is on the bank.

7. Action Items

a. HNTB to send updated sketch of horizontal clearance at normal pool and vertical clearance from 2% flow line. – **Natalie – See attached**
b. USCG to verify the traffic is one-way in this area - **Eric/Allan**
c. HNTB/ARDOT to discuss SCI simulations and respond to USCG with proposal - **ARDOT/HNTB**

Job 040748 – Hwy 22 to I-40 (Future I-49) - Task Order 161 (HNTB)
Arkansas River Bridge – USCG Meeting River Navigation Simulations
Meeting Minutes
06/28/2021, 1:00 pm via WebEx

Attendees:
USCG – David Orzechowski & Allan Monterroza
ARDOT – Steven Peyton, Scott Fisher, Mark Earl
HNTB - Natalie McCombs, Steve Hague, John Blancett, Brent Jones & Sarah Larson
SCI – Stephen Polk, Matthew Hyner

Reference: USCG Letter dated February 21, 2018, stated *"Horizontal Clearance - At least 500 feet between the face of the left descending channel pier and right descending bank, measured perpendicular to the axis of the channel. The right descending channel pier must be located out of the water on the right descending bank."*

The right descending bank/channel pier is on the south side of the river. The left descending channel pier will be in the water.

1. **Summary of Last Meeting 3/1/2021**
   a. USCG requested the horizontal clearance of 500' at the normal pool elevation of 370.00 rather than the 2% flowline.
   b. HNTB suggested Seamen's Church Institute perform a study for river navigation using computer simulations. USCG would entertain a study if deemed safe by SCI.
      i. USCG stated no less than a 350' navigation clearance would be entertained.
         - See discussion below for updates from this meeting.
   c. Open Action Items
      i. USCG was to determine if this section of the river was one-way or two-way navigation
         - Still not known – leave as an open action item.

2. **SCI River Navigation Simulations**
   a. SCI's Process/ Report Outline
      - SCI is currently building the model for this section of the river
      - SCI can test 3 to 4 navigation span lengths
      - Parameters will be established
      - Data will be collected and classified as "successful" or "unsuccessful"
      - Report will include objectives, safe working tolerances, feedback for each run, matrix of runs, recommendations, and conclusions.
      - River Pilots that will likely participate are Jantrans, Magnolia and a few others
      - USCG's concerns:
        - Modeling the quick rise in water from dam – Allan to provide flows
          - SCI stated they could change the water level but go no lower than Elevation 370.00.
        - Minimum navigation channel will be no less than 400' (changed from previous meeting) and will be measured at Normal Pool Elevation 370.00 at the intersection of the bank and water line.
   b. Verifications of Hydraulic Information for Simulations

i. The computer model will be built with the water level at the normal pool Elevation of 370.00. Water can be added to accommodate the higher elevations, but it cannot be reduced.
   - The lowest water elevation tested will be the Normal Pool elevation of 370.00.

ii. Hydraulic information

Discharge (Q in cfs)	Source	Water Surface Elev (ft)	Velocity (ft/s)
20,000	Low SCI - 2D RAS	373.47	1.24
50,000	Med SCI - 2D RAS	376.83	2.52
100,000	High SCI - 2D RAS	382.83	3.78

c. Pier Locations

i. Layout and pier placement options

1. Right descending channel pier placement in/out of water
   - USCG wants pier placed on the right descending bank outside of the navigation clearance as defined in item 3 below.
2. Visual barrier of pier at navigation channel edges
   - Water levels above Normal Pool Elevation will mean the pier is in the water.
   - Discussion on the impact or tunneling affect of the pier was discussed
   - Purpose of this study is to determine the left descending channel pier location
   - An economic bridge length study will locate the right descending channel pier (south bank) once the left descending channel pier is located.
   - For this navigation simulation study, it was decided to put the right descending channel pier on the bank just outside of the navigation channel limits as defined in item 3 below.
3. Confirm how the navigation clearance will be defined.
   - The navigation clearance will be measured at the intersection of the Normal Pool Elevation of 370.00 and the right descending bank (south bank)
4. Do we need 9' water depth at the "navigation clearance"?
   - Use definition of navigation clearance defined above regardless of water depth.
5. Measured perpendicular to channel, approx. 2-degree skew
   - There is about a 2 to 3-degree skew of the channel relative to the piers. There is not enough skew to affect the study. The piers will be modeled 90-degrees to the baseline of the bridge.
6. The previous meeting discussed using a 5 long and 3 wide barge tow for the vessel collision study. Is that acceptable for the simulation study?
   - USCG says to use a minimum of 15 jumbo barges for the study

d. Other discussion

i. The 2% flow line means the flood elevations will only be at this elevation 2% of the time.

ii. The right descending slope is protected with revetment. If the pier is located on the right descending slope, it will cause a hydraulic concern.

e. Schedule Dates for Testing the Simulation

i. October 11th-15th (Preferred) –

- No objections from ARDOT or USCG, calendar invite will be sent out

ii. September 7th -10th (Labor Day Week, 4-day work week)

- SCI suggested to have a preliminary run one day the week of September 7th-10th
- No objections from ARDOT or USCG, calendar invite will be sent out for those to attend.

3. Action Items

a. USCG to verify the traffic is one-way in this area - **Eric/Allan**

b. Provide flows to mimic the "quick rise" in water level because of the dam that pilots have described - **Allan**

c. Send calendar invites for the preliminary test run and the final runs - **Natalie - DONE**

Section 408 Summary Report

Appendix C1

H&H Arkansas River

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

Hydrologic and Hydraulic System Analysis
– for the Arkansas River & Flat Rock Creek (relief)

Requirements

This assessment of the proposed project conditions, regarding hydrology and hydraulics, is based on the Appendix H of EC 1165-2-220 dated 10 Sep 18, as received from USACE SWL on 8 Apr 22.

This section is only regarding the proposed I-49 Arkansas River Bridge #07684 (also referred to as "Bridge 1") and the Flat Rock Creek (relief) Bridge #07685 (also referred to as "Bridge 16").

Hydrology

The proposed project is not expected to affect the hydrologic conditions. Hydrographic timing is controlled by the channel itself, and the earthen embankment and bridge piers are mostly within overbank where conveyance is relatively low.

Hydraulics

Impacts regarding hydraulics were evaluated based on the five (5) required steps, for 408 permitting, generally outlined as follows:

- Step 1 – define the spatial extent
- Step 2 – identify authorized features
- Step 3 – collect authorized purpose of features
- Step 4 – assess the hydraulic results with the proposed alteration
- Step 5 – determine the changes in hydraulic conditions for indexed locations

The design team closely collaborated with USACE SWL, to understand authorized infrastructure in the proximity of the project. Each step has been followed, to meet the expected requirements.

Step 1

The Arkansas River system extends from the Continental Divide in central Colorado to the Mississippi River at the eastern border of central Arkansas, where the river itself is more than 1,400 miles in length, and the project crossing is near RM 291.6. The flow regime in this reach of the river is subcritical, meaning alterations may affect conditions upstream. And the Trimble Lock & Dam on Arkansas River is approximately 5,700ft upstream of the project crossing. Immediately upstream of the dam, in the reservoir, the hydraulic conditions are mostly riverine with some lacustrine characteristics. The spatial extent evaluated, is from the region immediately downstream of the project crossing to highway US64 / US71-BR upstream at Van Buren, AR.

Step 2

On 9 Dec 21, USACE SWL indicated that the authorized features to be evaluated for proposed alterations in the extents defined in Step 1, are:

1. Fort Smith Levee – upstream of Trimble Dam
2. Van Buren Levee – upstream of Trimble Dam
3. Crawford County Levee – adjacent to the project crossing and upstream of Trimble Dam
4. Trimble Lock Walls – adjacent to and downstream of Trimble Dam
5. Van Buren Regulating Station – upstream of Trimble Dam at USGS gage

Also, river channel protection was recognized in the vicinity:

6. Stone Dikes on the left (north) bank - downstream of the Trimble Dam and upstream of the project crossing
7. Stone Revetment on the right (south) bank - downstream of the Trimble Dam and the revetment passes through the project crossing

In the Fall of 2023, a top of levee topographical survey was conducted for the Crawford County Levee in the vicinity of the Trimble Lock and Dam Road, and it confirmed that the modeled surface was relatively accurate, and it was used for this final submittal.

Step 3

It is understood the authorized purpose of the features, are as follows:

1. Fort Smith Levee – to reduce the risk of flood inundation
2. Van Buren Levee – to reduce the risk of flood inundation
3. Crawford County Levee – to reduce the risk of flood inundation
4. Trimble Lock Walls – to allow controlled passage between Pools 12 and 13
5. Van Buren Regulating Station – to monitor flood conditions for operational cues
6. Stone Dikes on the left (north) bank – to reduce the risk of navigational channel migration
7. Stone Revetment on the right (south) bank - to reduce the risk of navigational channel migration

Step 4

Alternatives of a single long bridge versus a dual shorter bridge were investigated. To investigate the need to mitigate any FEMA 100-year "rise" from propagating upstream of Trimble Dam in the designated Zone AE floodplain, HNTB attempted to obtain the official FEMA hydraulic model within the Zone AE of Pool 13 from FEMA, Sebastian County, and Crawford County to no avail. 1D modeling was performed using a 1D HEC-RAS model received from USACE SWL on 11 Sep 20 (Pool 12) and 11 Mar 22 (Pool 13), and it was determined that 61 acres of tree clearing would be necessary on the left (north) overbank to mitigate the "rise".

In parallel to the 1D modeling, the hydraulic conditions were also assessed using the 2D HEC-RAS model received from USACE SWL on 1 Sep 21. Also on 9 Dec 21, USACE SWL provided specific conditions to be assessed for the authorized features shown in Step 2, as follows:

1. Fort Smith Levee – water surface versus 540kcfs discharge
2. Van Buren Levee – water surface versus 540kcfs discharge
3. Crawford County Levee – water surface versus 560kcfs discharge
4. Trimble Lock Walls – water surface versus 380kcfs discharge
5. Van Buren Regulating Station – water surface versus 150kcfs discharge

River channel protection was assessed accordingly:

6. Stone Dikes on the left (north) bank – local velocities versus 70 and 150kcfs discharges
7. Stone Revetment on the right (south) bank – local velocities versus 70 and 150kcfs discharges, and riprap stability for proposed pier placement within the revetment itself as discussed with USACE SWL during 12 Nov 21 meeting, for the 100yr design scour event.

Iterations of proposed conditions were sent to USACE SWL for review on 19 Sep 21, 18 Jan 22, and 6 May 22, with a USACE letter stating "no noticeable errors or problem identified within the model" on 27

Jul 22, for the dual shorter bridge alternative. Since, the 2D has been updated for draft 408 and final 408, based on subtle bridge pier changes and refinement of the tree clearing area.

Also, the worst-case temporary condition, during bridge construction, was assessed. This included an Arkansas River north bank fill platform with a top elevation of 389ft (OHW +5ft), temporary support towers, and a Flat Rock Creek low water crossing (conservatively, the culverts within were not included).

Step 5

The 2D hydraulic model was used to assess the existing versus proposed conditions (permanent, and the temporary during construction) for the authorized features, and the results are specifically shown on the associated exhibits, as follows.

1. Fort Smith Levee
    a. Exhibit C1-1 depicts the plan view from the USACE model's terrain of: the Ft Smith levee alignment, the Arkansas River, and the approach of US-64 highway.
    b. Exhibit C1-2 depicts the profile of the top of levee with the existing & proposed (permanent) water surface for the 540kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location and the Maximum Water Surface Elevation Difference location, are annotated in detail within the levee's extents.
    c. Exhibit C1-3 depicts the profile of the top of levee with the existing & proposed (temporary) water surface for the 540kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location and the Maximum Water Surface Elevation Difference location, are annotated in detail within the levee's extents.
2. Van Buren Levee
    a. Exhibit C1-4 depicts the plan view from the USACE model's terrain of: the Van Buren levee alignment, the Arkansas River, the approach of Broadway/US-64 and I-540, the Van Buren Regulating Station, and the Van Buren / Crawford County levee interface.
    b. Exhibit C1-5 depicts the profile of the top of levee with the existing & proposed (permanent) water surface for the 540kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location and the Maximum Water Surface Elevation Difference location, are annotated in detail within the levee's extents.
    c. Exhibit C1-6 depicts the profile of the top of levee with the existing & proposed (temporary) water surface for the 540kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location and the Maximum Water Surface Elevation Difference location, are annotated in detail within the levee's extents.
3. Crawford County Levee
    a. Exhibit C1-7 depicts the plan view from the USACE model's terrain of: the Crawford County levee alignment, the Arkansas River, the approach of Broadway/US-64 and I-540, the Van Buren / Crawford County levee interface, Trimble Lock & Dam, and the Proposed I-49 crossing.
    b. Exhibit C1-8 depicts the profile of the top of levee with the existing & proposed (permanent) water surface for the 560kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location, and the Maximum Water Surface Elevation Difference location, are annotated in detail within the levee's extents. Also, a comparison of the Velocity at the Face of Levee is shown at the Flat Rock Creek /

Arkansas River proposed relief bridge opening, upstream of the proposed concrete paving of the riverside face of the levee.

c. Exhibit C1-9 depicts the profile of the top of levee with the existing & proposed (temporary) water surface for the 560kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location, and the Maximum Water Surface Elevation Difference location, are annotated in detail within the levee's extents. Also, a comparison of the Velocity at the Face of Levee is shown at the Flat Rock Creek / Arkansas River proposed relief bridge opening, upstream of the proposed concrete paving of the riverside face of the levee.

4. Trimble Lock Walls
    a. Exhibit C1-10 depicts the plan view from the USACE model's terrain of: the Trimble Lock Wall alignment, the Arkansas River, and the Trimble Lock & Dam.
    b. Exhibit C1-11 depicts the profile of the top of wall with the existing & proposed (permanent) water surface for the 380kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location and the Maximum Water Surface Elevation Difference location, are annotated in detail within the wall's extents.
    c. Exhibit C1-12 depicts the profile of the top of wall with the existing & proposed (temporary) water surface for the 380kcfs condition. For comparison purposes, the Minimum Clearance to Overtop location and the Maximum Water Surface Elevation Difference location, are annotated in detail within the wall's extents.
5. Van Buren Regulating Station
    a. Exhibit C1-13 depicts the plan view from the USACE model's terrain of: the Van Buren Regulating Station, the Arkansas River, the approach of Broadway/US-64 and I-540, and the Van Buren / Crawford County levee interface.
    b. Exhibit C1-14 depicts the gage's (USGS 07250500) datum elevation as compared to the existing & proposed (permanent) water surface elevation for the 150kcfs condition.
    c. Exhibit C1-15 depicts the gage's (USGS 07250500) datum elevation as compared to the existing & proposed (temporary) water surface elevation for the 150kcfs condition.
6. Stone Dikes on the left (north) bank
    a. Exhibit C1-16 depicts the plan view from the USACE model's terrain of: the Trimble Lock & Dam, the Arkansas River, and the two ends of the Stone Dikes.
    b. Exhibit C1-17 depicts the existing & proposed (permanent) water velocities and differences for the both the 70kcfs and 150kcfs conditions. The worst condition is for Stone Dike 2 @ 150kcfs, where the velocity only increases 3% as compared to existing.
    c. Exhibit C1-18 depicts the existing & proposed (temporary) water velocities and differences for the both the 70kcfs and 150kcfs conditions. The worst condition is for Stone Dike 2 @ 150kcfs, where the velocity only increases 3% as compared to existing.
7. Stone Revetment on the right (south) bank
    a. Exhibit C1-19 depicts the plan view from the USACE model's terrain of the: Arkansas River, and the conservative riverward assessment point near the toe of the Stone Revetment and the Proposed I-49 crossing.
    b. Exhibit C1-20 depicts the existing & proposed (permanent) water velocities and differences for the both the 70kcfs and 150kcfs conditions.

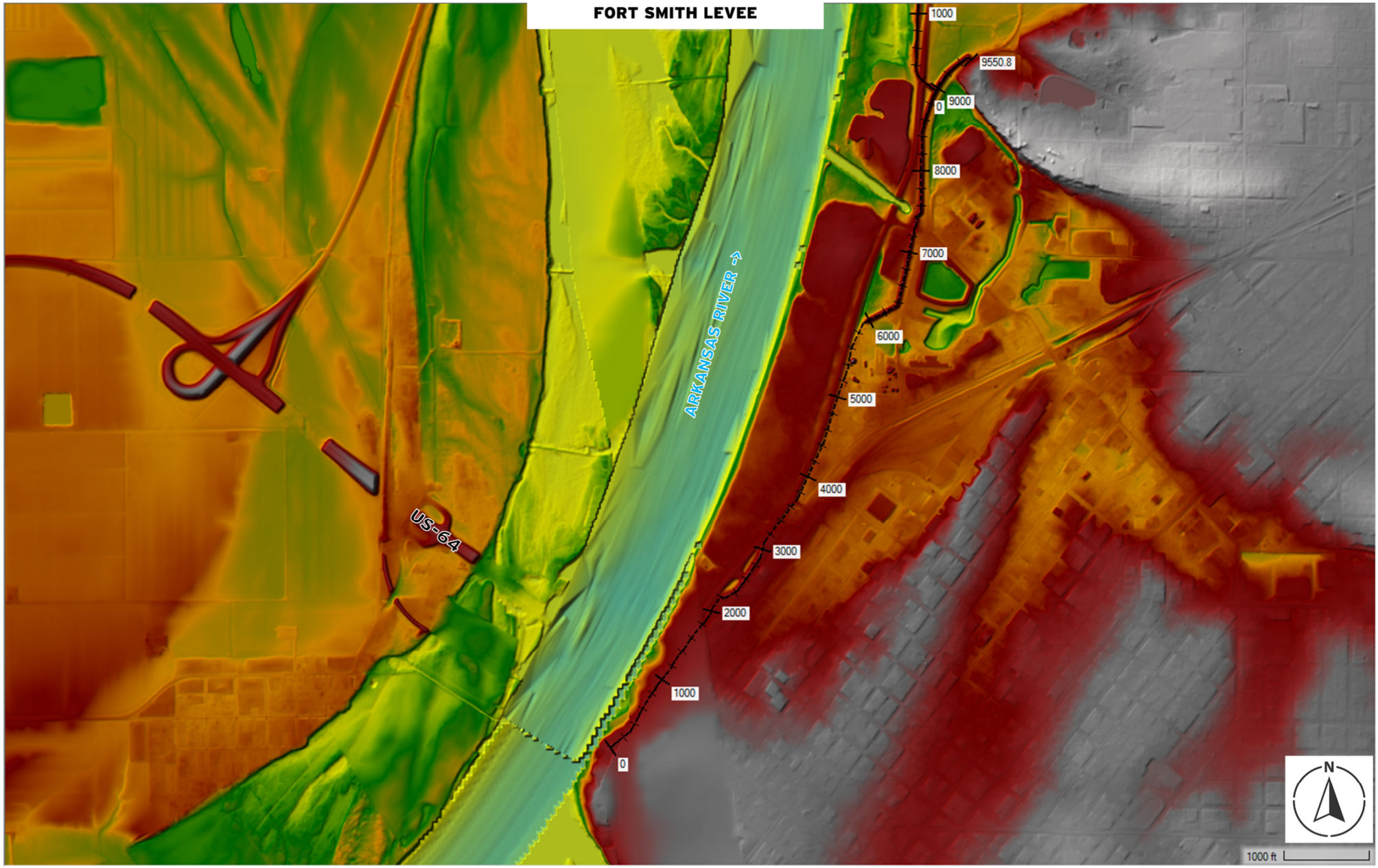
c. Exhibit C1-21 depicts the existing & proposed (temporary) water velocities and differences for the both the 70kcfs and 150kcfs conditions.

Mitigation

The USACE Gradation B of the existing Stone Revetment on the right (south) bank was assessed, for the permanent proposed condition, for the Pier 12 (Bent 13) placement within the revetment, using the conservatively modified 100-year scour event (570kcfs) conservatively for both local velocities and average section velocities, and was found to be undersized. The intent is to replace the affected construction disturbance with stone consisting of a gradation as D100=36in, D85=30 to 34in, D50=19 to 24in, and D15=5 to 10in (USACE Gradation A). See Exhibits C1-22, 23 and 24.

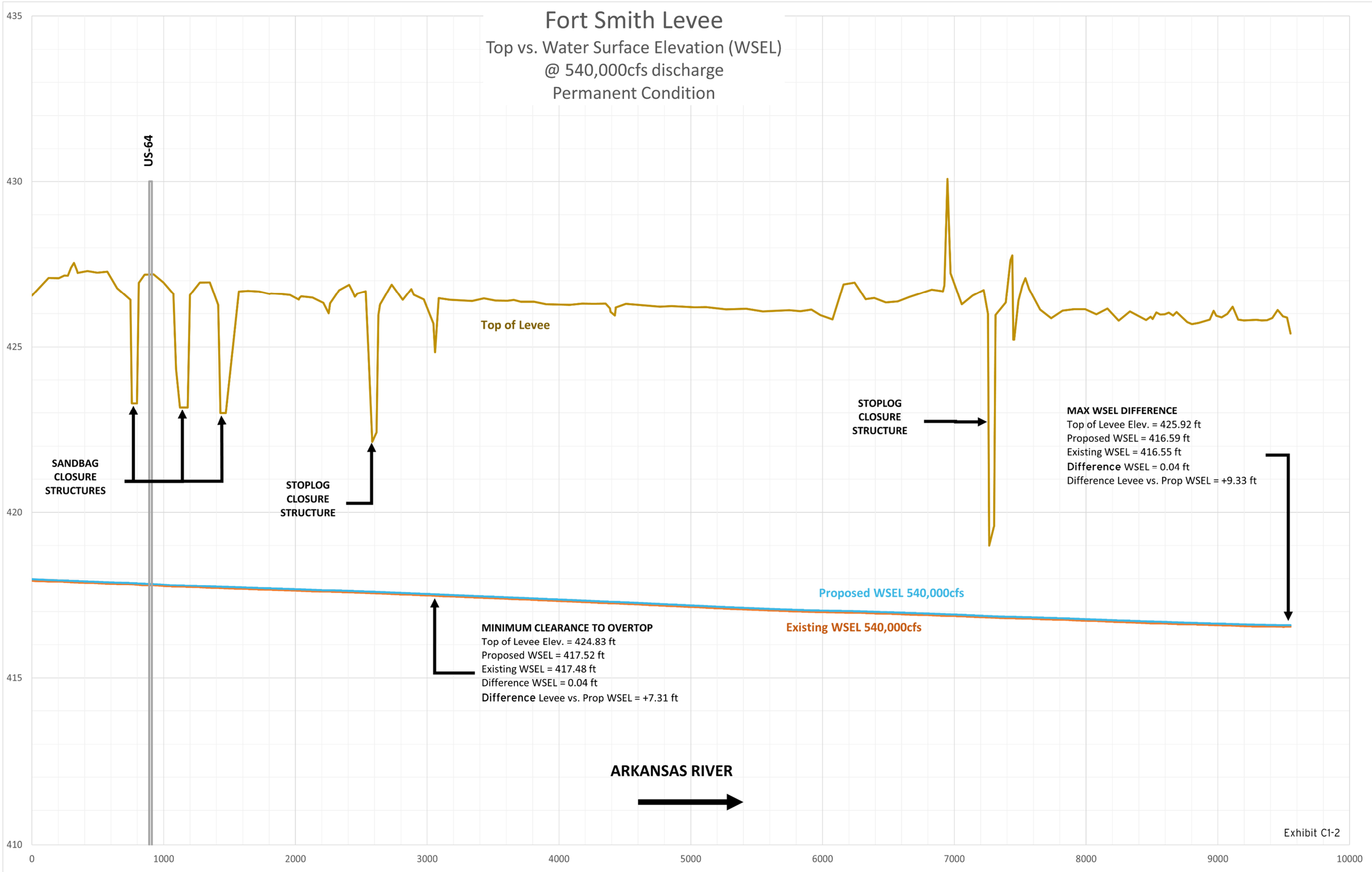
1D Modeling for FEMA Considerations and Tree Clearing

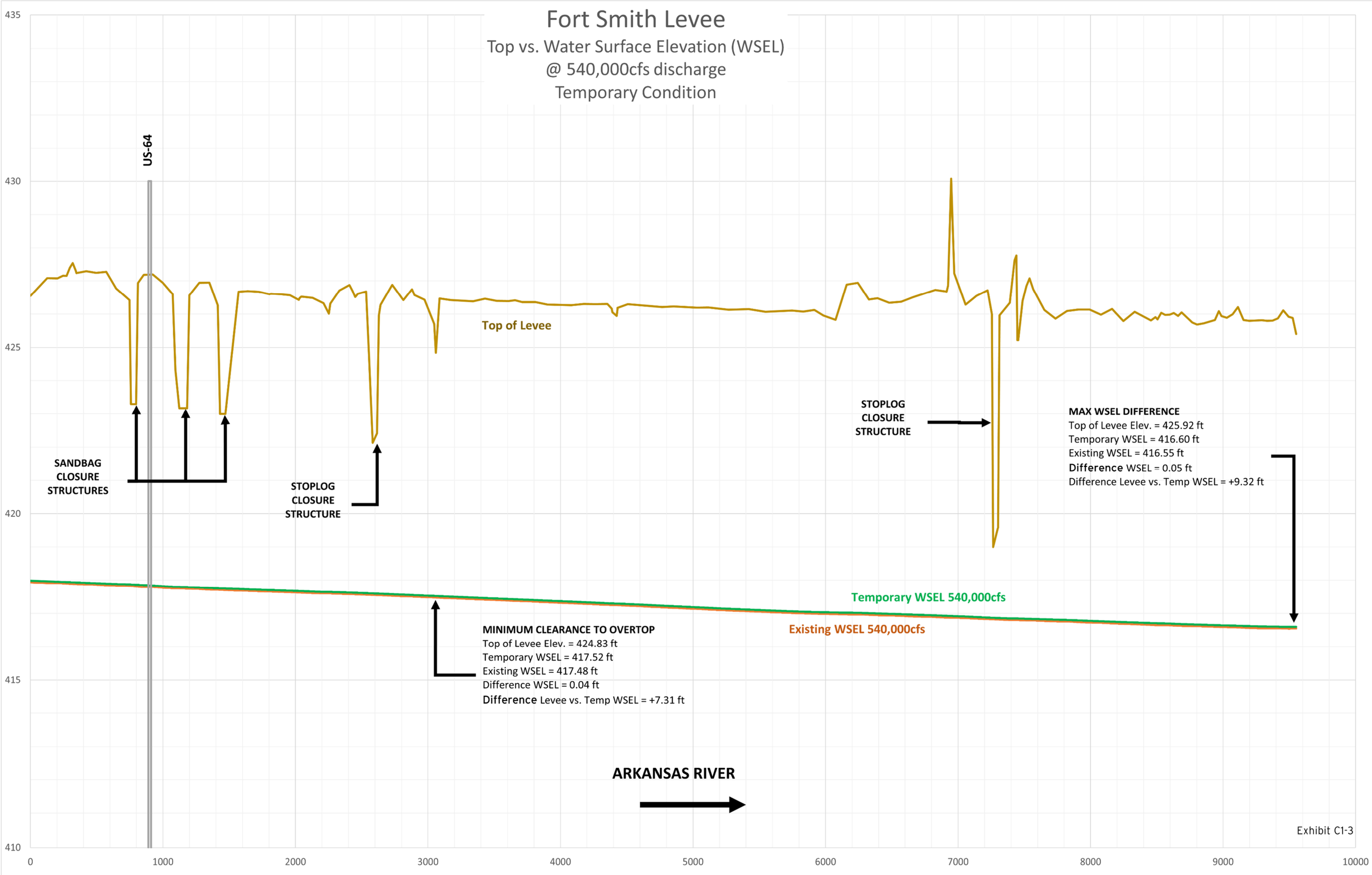
The controlling Sebastian County FEMA regulated 100-year discharge is 480,000 cfs. The project is located in a FEMA Zone A where 1ft rise is typically allowed, however the 1D model was assessed further upstream for both the existing and proposed conditions, within the rise-restrictive Zone AE. A small rise was mitigated, by the proposed tree removal of an area of approximately 61 acres in the north overbank, downstream of the proposed Bridge 1. With the addition of the tree clearing, the 1D model only shows a localized rise at cross-section 291.69, just upstream of the bridge and within project right-of-way. Outside of project-right-of-way, the model shows a no-rise condition. A significant encompassing region of existing trees will be left in place downstream, to reduce the risk of overbank flows causing a future channel bifurcation. See Exhibits C1-25, 26 and 27 for: tree clearing plan, cross-section location map for the 1D model, and a summary of the existing and proposed 1D model water surface elevations, respectively.

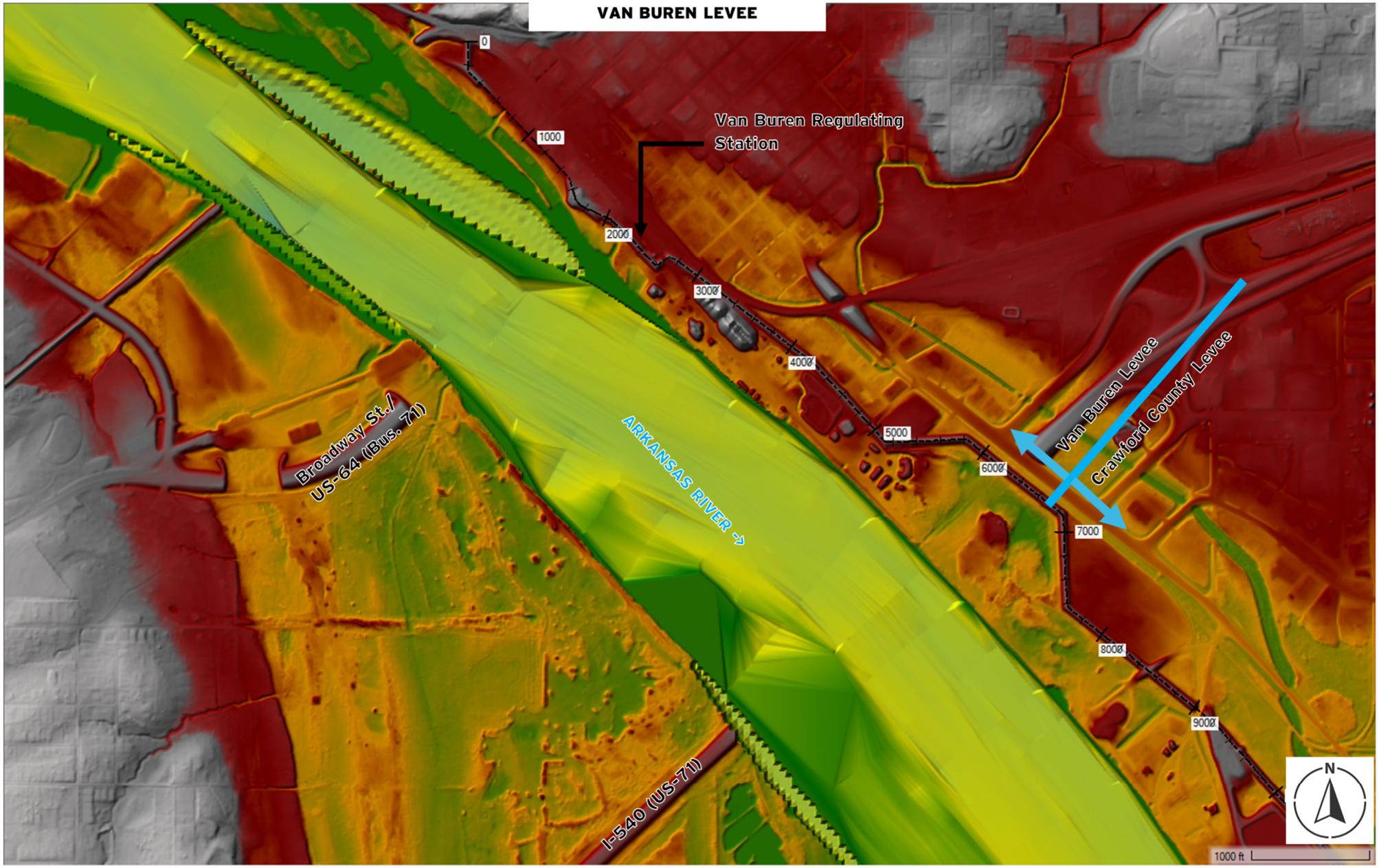


Map color from RAS model terrain is only for spatial reference.

Exhibit C1-1


Fort Smith Levee
Top vs. Water Surface Elevation (WSEL)
@ 540,000cfs discharge
Permanent Condition
US-64
Top of Levee
SANDBAG CLOSURE STRUCTURES
STOPLOG CLOSURE STRUCTURE
STOPLOG CLOSURE STRUCTURE
MAX WSEL DIFFERENCE
Top of Levee Elev. = 425.92 ft
Proposed WSEL = 416.59 ft
Existing WSEL = 416.55 ft
Difference WSEL = 0.04 ft
Difference Levee vs. Prop WSEL = +9.33 ft
Proposed WSEL 540,000cfs
Existing WSEL 540,000cfs
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 424.83 ft
Proposed WSEL = 417.52 ft
Existing WSEL = 417.48 ft
Difference WSEL = 0.04 ft
Difference Levee vs. Prop WSEL = +7.31 ft
ARKANSAS RIVER
Exhibit C1-2
435
430
425
420
415
410
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


Fort Smith Levee
Top vs. Water Surface Elevation (WSEL)
@ 540,000cfs discharge
Temporary Condition
US-64
Top of Levee
SANDBAG CLOSURE STRUCTURES
STOPLOG CLOSURE STRUCTURE
STOPLOG CLOSURE STRUCTURE
MAX WSEL DIFFERENCE
Top of Levee Elev. = 425.92 ft
Temporary WSEL = 416.60 ft
Existing WSEL = 416.55 ft
Difference WSEL = 0.05 ft
Difference Levee vs. Temp WSEL = +9.32 ft
Temporary WSEL 540,000cfs
Existing WSEL 540,000cfs
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 424.83 ft
Temporary WSEL = 417.52 ft
Existing WSEL = 417.48 ft
Difference WSEL = 0.04 ft
Difference Levee vs. Temp WSEL = +7.31 ft
ARKANSAS RIVER
Exhibit C1-3
435
430
425
420
415
410
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000



Map color from RAS model terrain is only for spatial reference.

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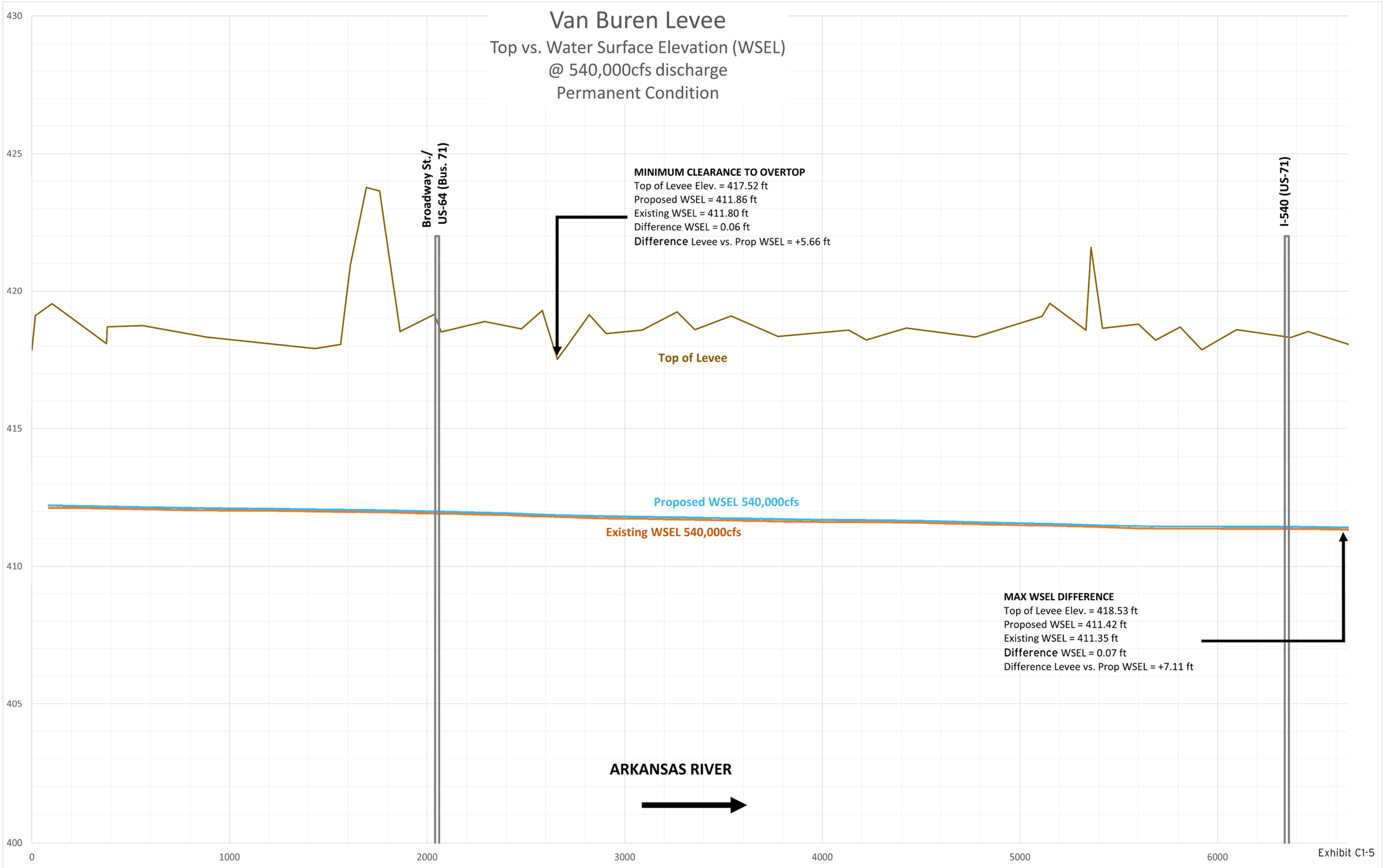

Van Buren Levee
Top vs. Water Surface Elevation (WSEL)
@ 540,000cfs discharge
Permanent Condition
430
425
420
415
410
405
400
0
1000
2000
3000
4000
5000
6000
Broadway St./
US-64 (Bus. 71)
I-540 (US-71)
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 417.52 ft
Proposed WSEL = 411.86 ft
Existing WSEL = 411.80 ft
Difference WSEL = 0.06 ft
Difference Levee vs. Prop WSEL = +5.66 ft
Top of Levee
Proposed WSEL 540,000cfs
Existing WSEL 540,000cfs
MAX WSEL DIFFERENCE
Top of Levee Elev. = 418.53 ft
Proposed WSEL = 411.42 ft
Existing WSEL = 411.35 ft
Difference WSEL = 0.07 ft
Difference Levee vs. Prop WSEL = +7.11 ft
ARKANSAS RIVER

Exhibit C1-5

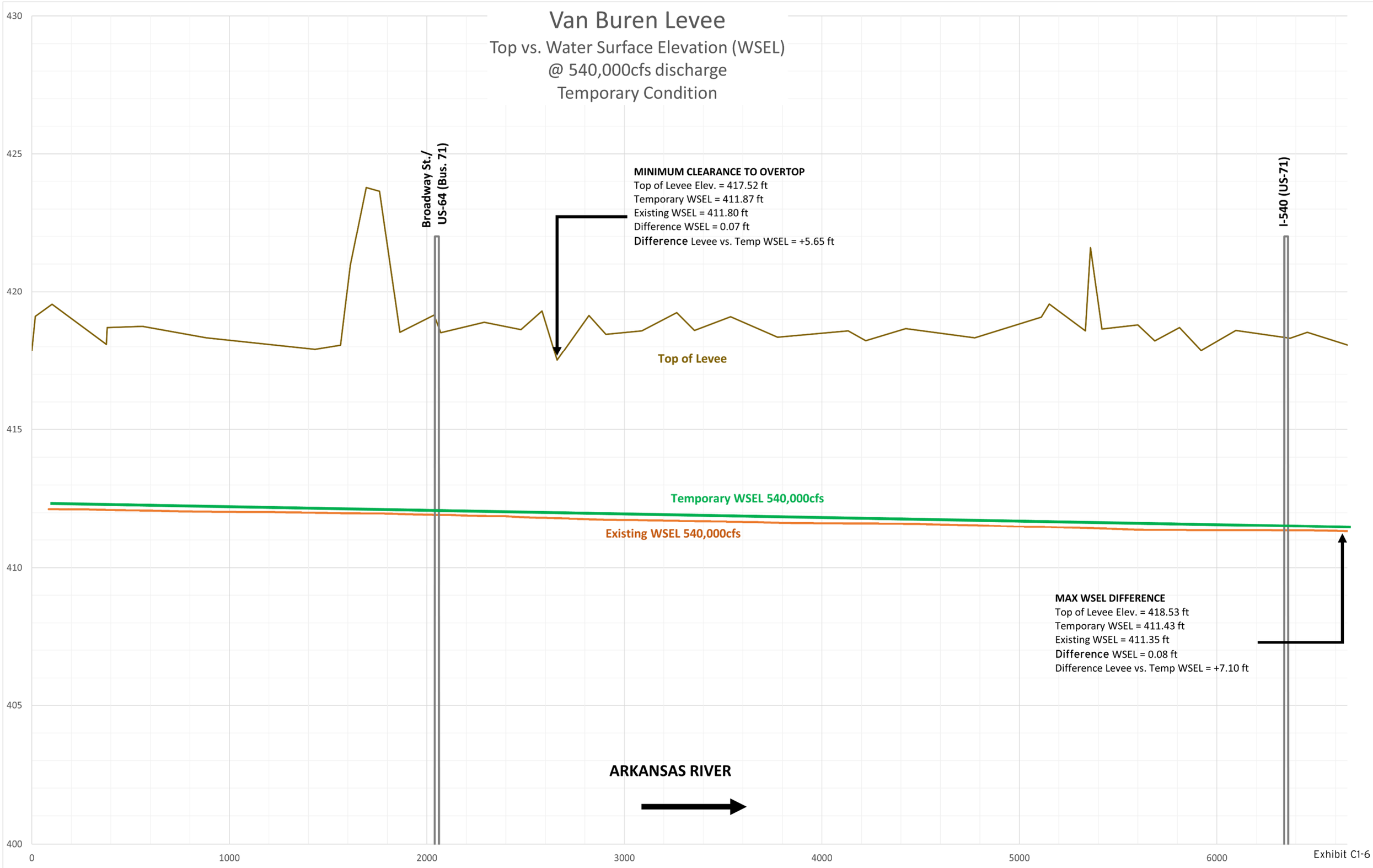
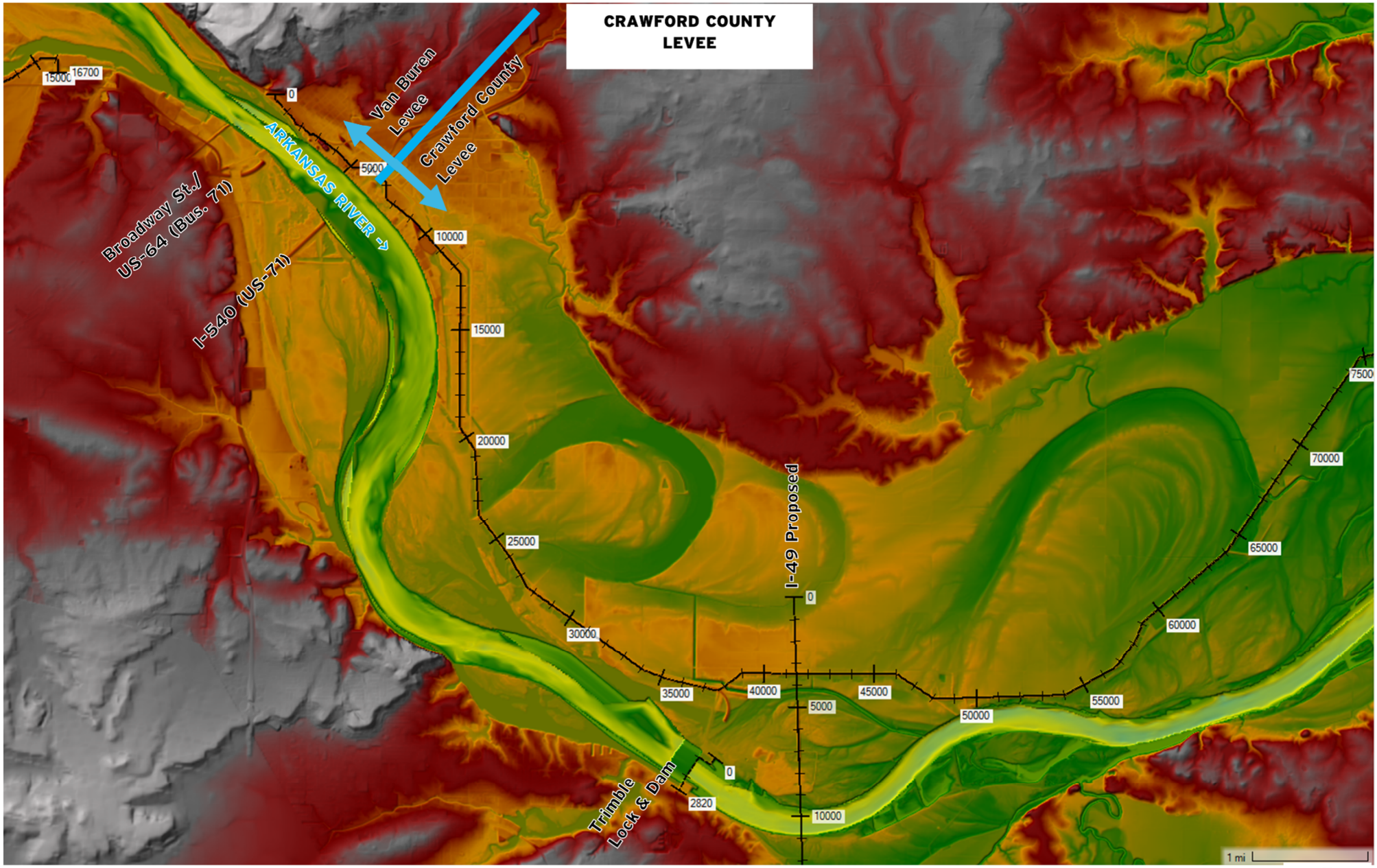

Van Buren Levee
Top vs. Water Surface Elevation (WSEL)
@ 540,000cfs discharge
Temporary Condition
430
425
420
415
410
405
400
0
1000
2000
3000
4000
5000
6000
Broadway St./
US-64 (Bus. 71)
I-540 (US-71)
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 417.52 ft
Temporary WSEL = 411.87 ft
Existing WSEL = 411.80 ft
Difference WSEL = 0.07 ft
Difference Levee vs. Temp WSEL = +5.65 ft
Top of Levee
Temporary WSEL 540,000cfs
Existing WSEL 540,000cfs
MAX WSEL DIFFERENCE
Top of Levee Elev. = 418.53 ft
Temporary WSEL = 411.43 ft
Existing WSEL = 411.35 ft
Difference WSEL = 0.08 ft
Difference Levee vs. Temp WSEL = +7.10 ft
ARKANSAS RIVER

Exhibit C1-6



Map color from RAS model terrain is only for spatial reference.

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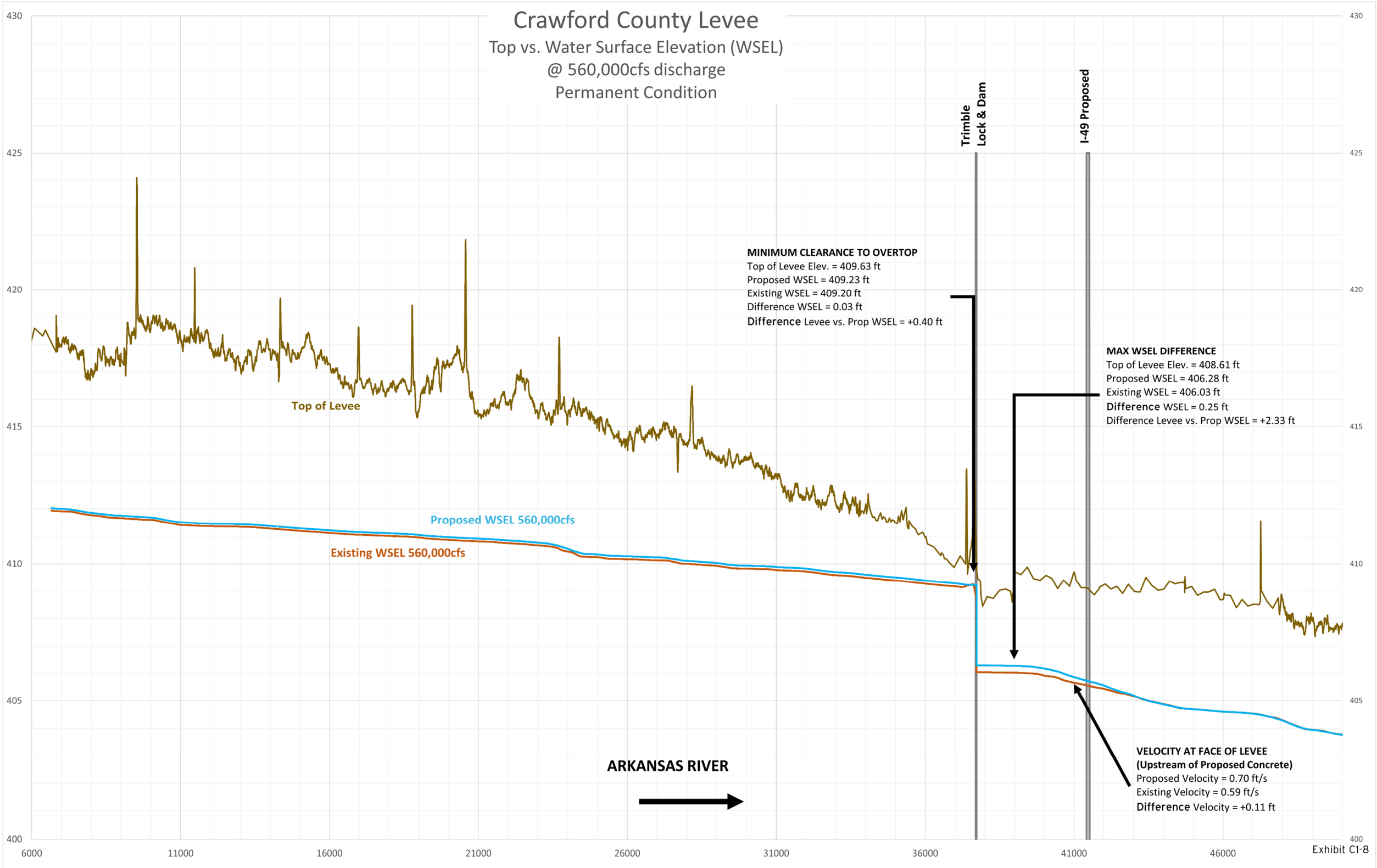

Crawford County Levee
Top vs. Water Surface Elevation (WSEL)
@ 560,000cfs discharge
Permanent Condition
Trimble Lock & Dam
I-49 Proposed
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 409.63 ft
Proposed WSEL = 409.23 ft
Existing WSEL = 409.20 ft
Difference WSEL = 0.03 ft
Difference Levee vs. Prop WSEL = +0.40 ft
MAX WSEL DIFFERENCE
Top of Levee Elev. = 408.61 ft
Proposed WSEL = 406.28 ft
Existing WSEL = 406.03 ft
Difference WSEL = 0.25 ft
Difference Levee vs. Prop WSEL = +2.33 ft
Top of Levee
Proposed WSEL 560,000cfs
Existing WSEL 560,000cfs
ARKANSAS RIVER
VELOCITY AT FACE OF LEVEE
(Upstream of Proposed Concrete)
Proposed Velocity = 0.70 ft/s
Existing Velocity = 0.59 ft/s
Difference Velocity = +0.11 ft
430
425
420
415
410
405
400
6000
11000
16000
21000
26000
31000
36000
41000
46000

Exhibit C1-8

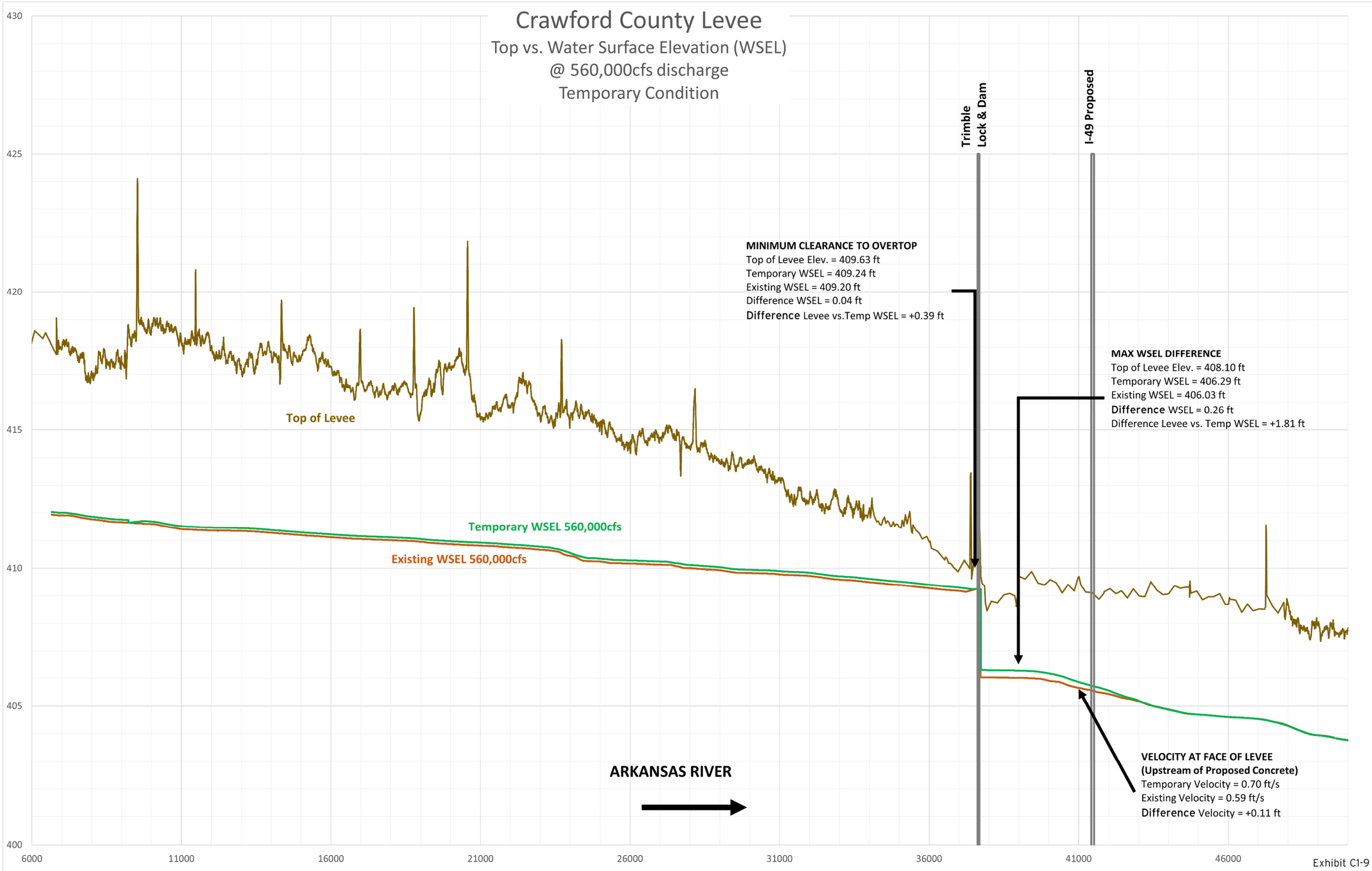
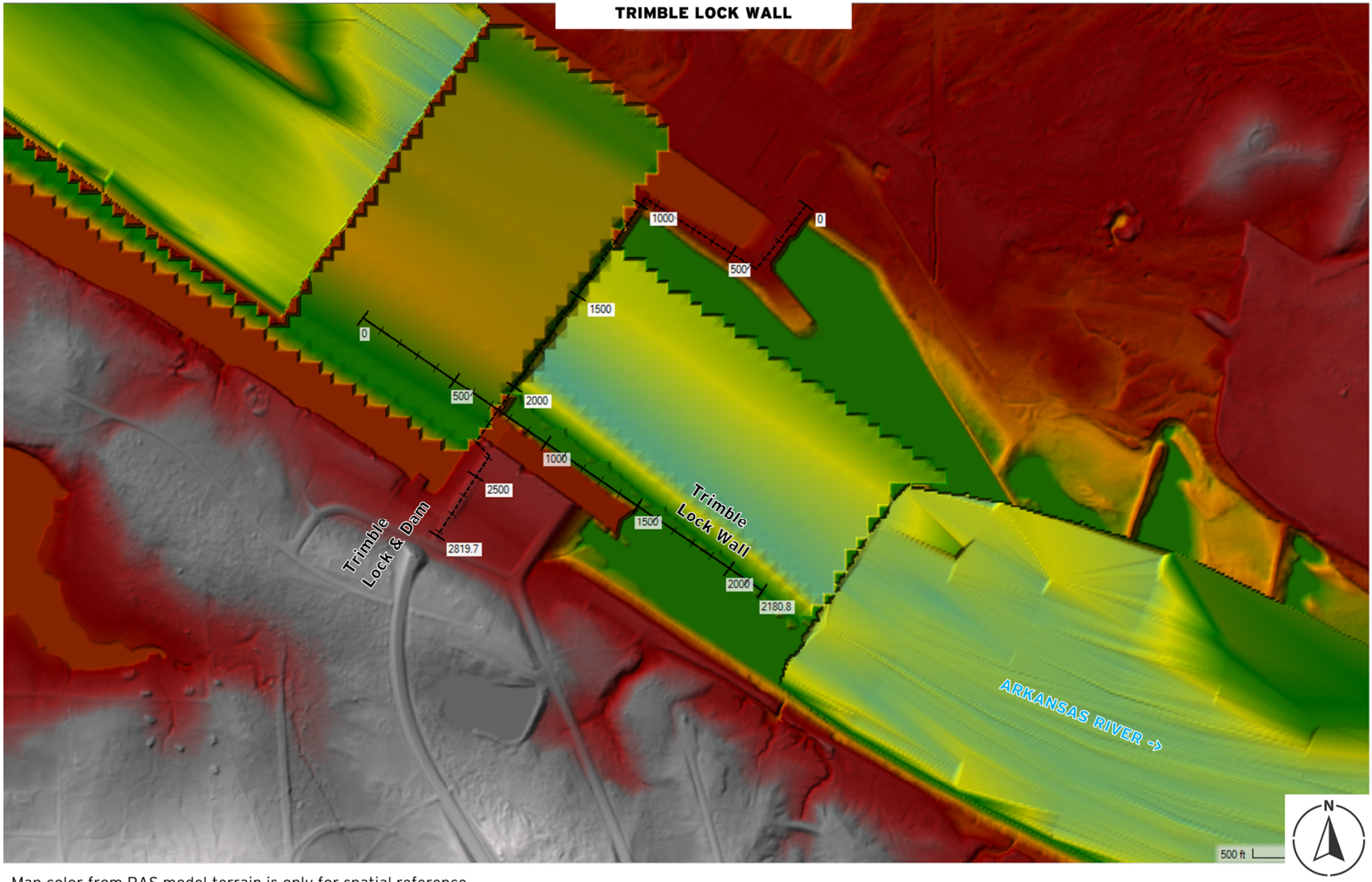

Crawford County Levee
Top vs. Water Surface Elevation (WSEL)
@ 560,000cfs discharge
Temporary Condition
430
425
420
415
410
405
400
6000
11000
16000
21000
26000
31000
36000
41000
46000
Trimble Lock & Dam
I-49 Proposed
MINIMUM CLEARANCE TO OVERTOP
Top of Levee Elev. = 409.63 ft
Temporary WSEL = 409.24 ft
Existing WSEL = 409.20 ft
Difference WSEL = 0.04 ft
Difference Levee vs.Temp WSEL = +0.39 ft
MAX WSEL DIFFERENCE
Top of Levee Elev. = 408.10 ft
Temporary WSEL = 406.29 ft
Existing WSEL = 406.03 ft
Difference WSEL = 0.26 ft
Difference Levee vs. Temp WSEL = +1.81 ft
Top of Levee
Temporary WSEL 560,000cfs
Existing WSEL 560,000cfs
ARKANSAS RIVER
VELOCITY AT FACE OF LEVEE
(Upstream of Proposed Concrete)
Temporary Velocity = 0.70 ft/s
Existing Velocity = 0.59 ft/s
Difference Velocity = +0.11 ft

Exhibit C1-9



Map color from RAS model terrain is only for spatial reference.

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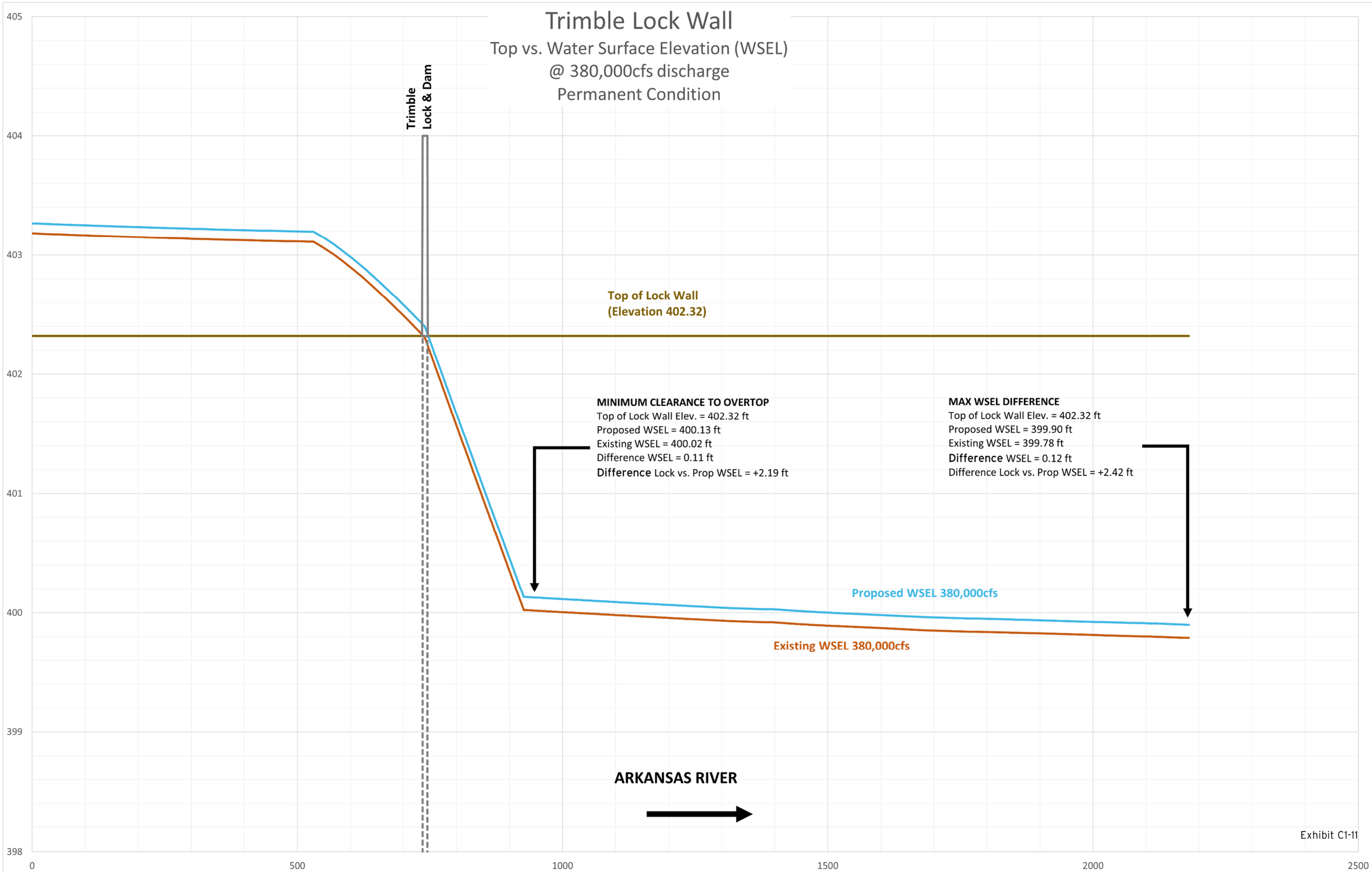
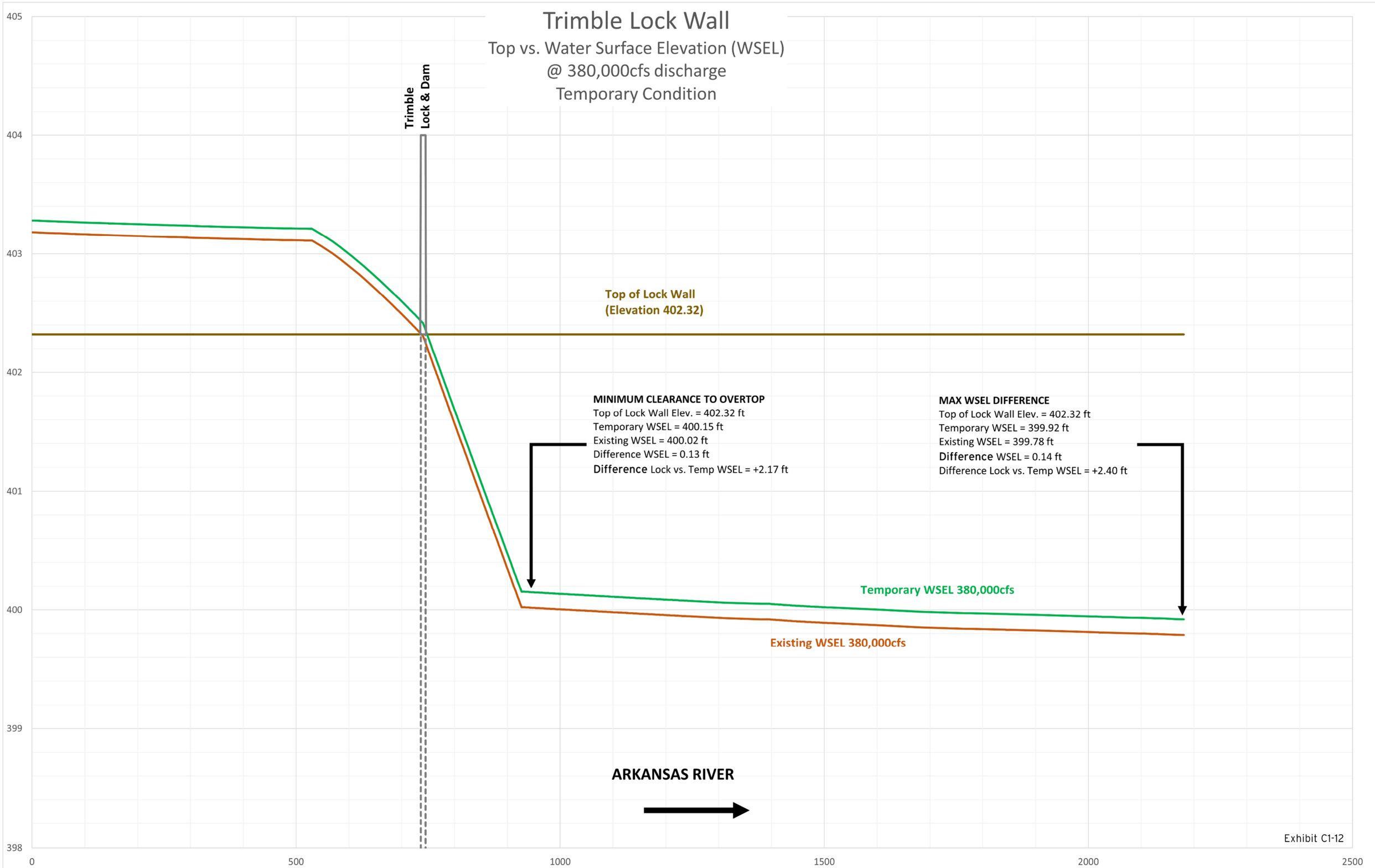
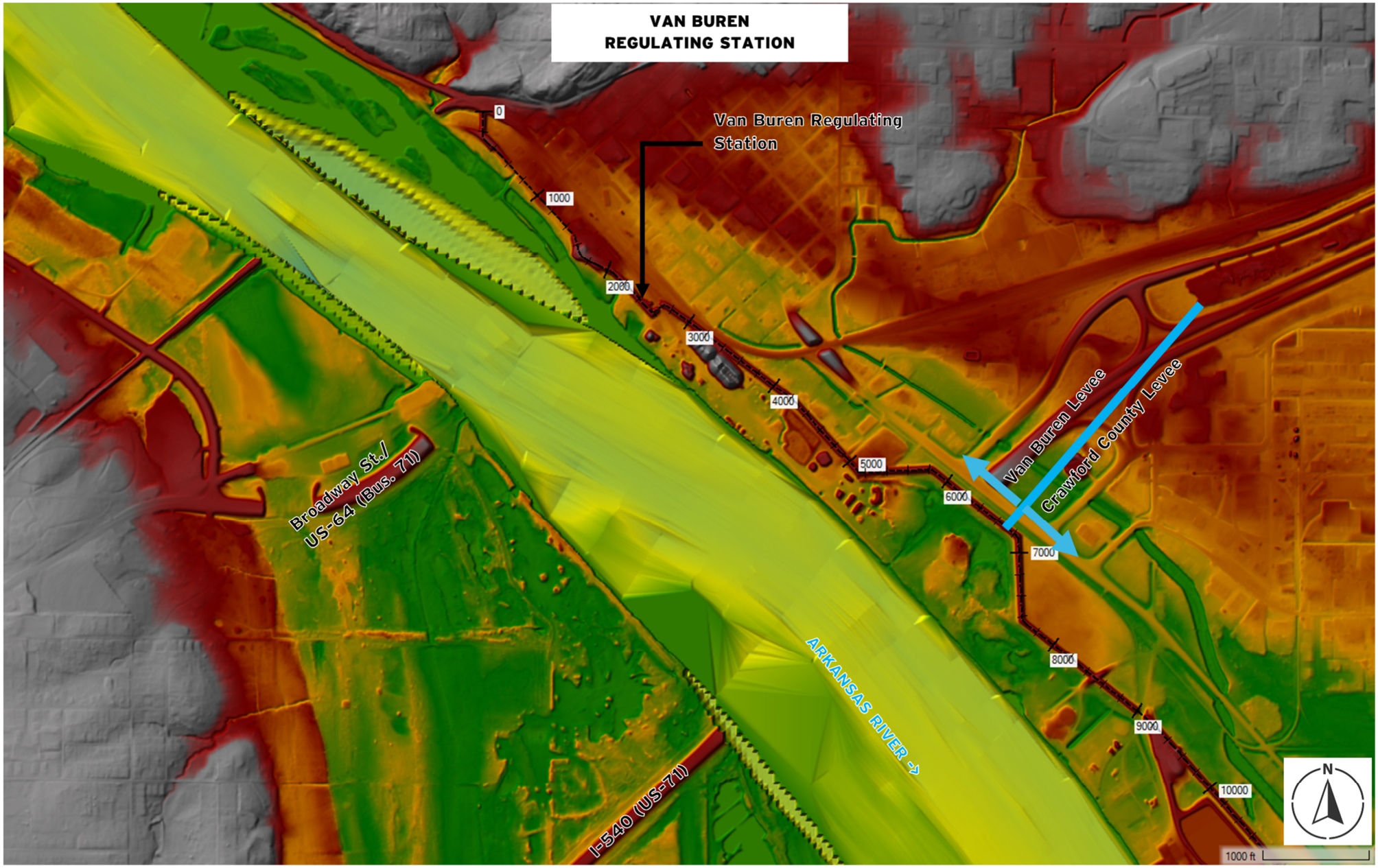
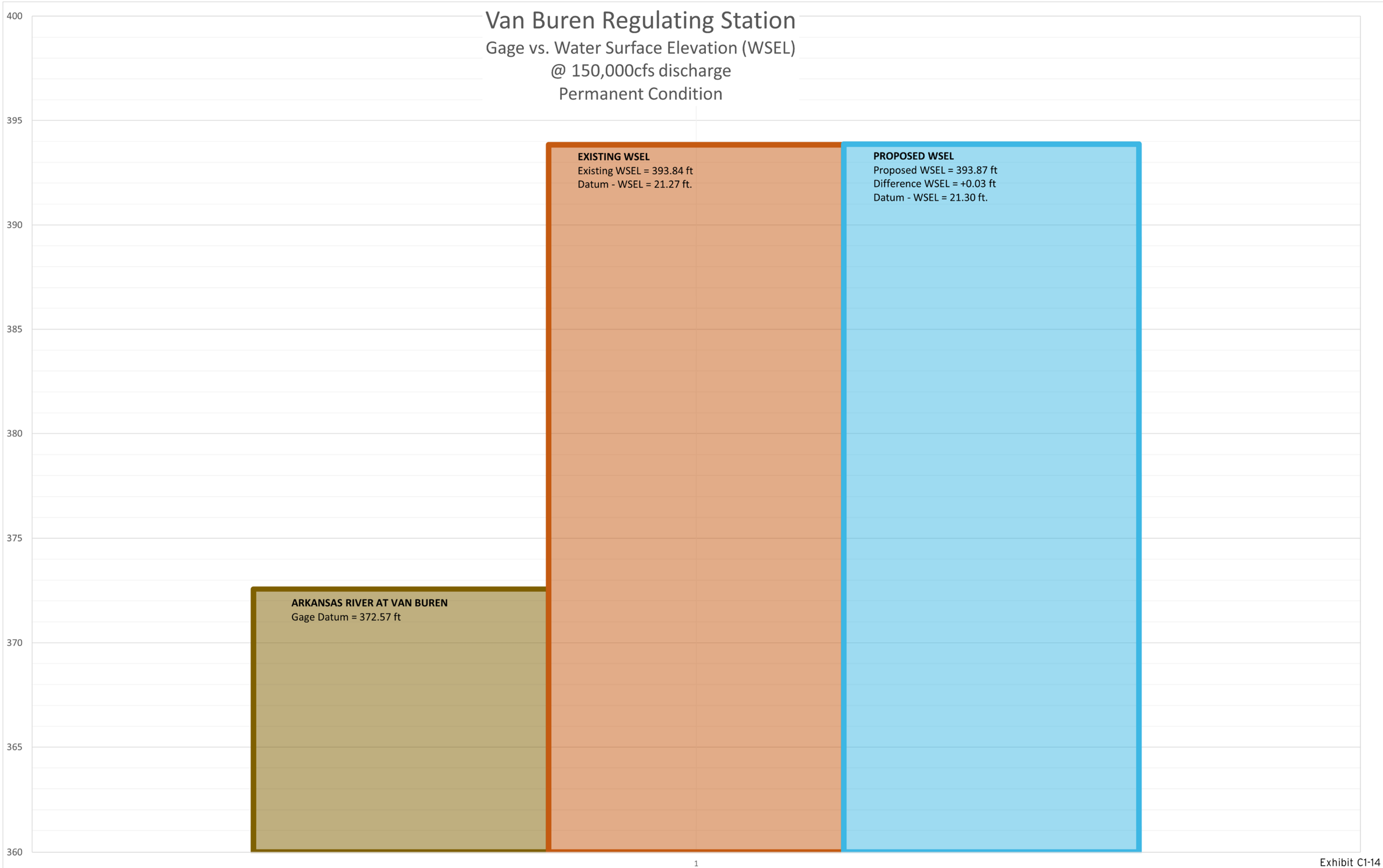

Trimble Lock Wall
Top vs. Water Surface Elevation (WSEL)
@ 380,000cfs discharge
Permanent Condition
Trimble Lock & Dam
Top of Lock Wall
(Elevation 402.32)
MINIMUM CLEARANCE TO OVERTOP
Top of Lock Wall Elev. = 402.32 ft
Proposed WSEL = 400.13 ft
Existing WSEL = 400.02 ft
Difference WSEL = 0.11 ft
Difference Lock vs. Prop WSEL = +2.19 ft
MAX WSEL DIFFERENCE
Top of Lock Wall Elev. = 402.32 ft
Proposed WSEL = 399.90 ft
Existing WSEL = 399.78 ft
Difference WSEL = 0.12 ft
Difference Lock vs. Prop WSEL = +2.42 ft
Proposed WSEL 380,000cfs
Existing WSEL 380,000cfs
ARKANSAS RIVER
Exhibit C1-11
405
404
403
402
401
400
399
398
0
500
1000
1500
2000
2500


Trimble Lock Wall
Top vs. Water Surface Elevation (WSEL)
@ 380,000cfs discharge
Temporary Condition
Trimble Lock & Dam
Top of Lock Wall
(Elevation 402.32)
MINIMUM CLEARANCE TO OVERTOP
Top of Lock Wall Elev. = 402.32 ft
Temporary WSEL = 400.15 ft
Existing WSEL = 400.02 ft
Difference WSEL = 0.13 ft
Difference Lock vs. Temp WSEL = +2.17 ft
MAX WSEL DIFFERENCE
Top of Lock Wall Elev. = 402.32 ft
Temporary WSEL = 399.92 ft
Existing WSEL = 399.78 ft
Difference WSEL = 0.14 ft
Difference Lock vs. Temp WSEL = +2.40 ft
Temporary WSEL 380,000cfs
Existing WSEL 380,000cfs
ARKANSAS RIVER
Exhibit C1-12
405
404
403
402
401
400
399
398
0
500
1000
1500
2000
2500



Map color from RAS model terrain is only for spatial reference.

Exhibit C1-13



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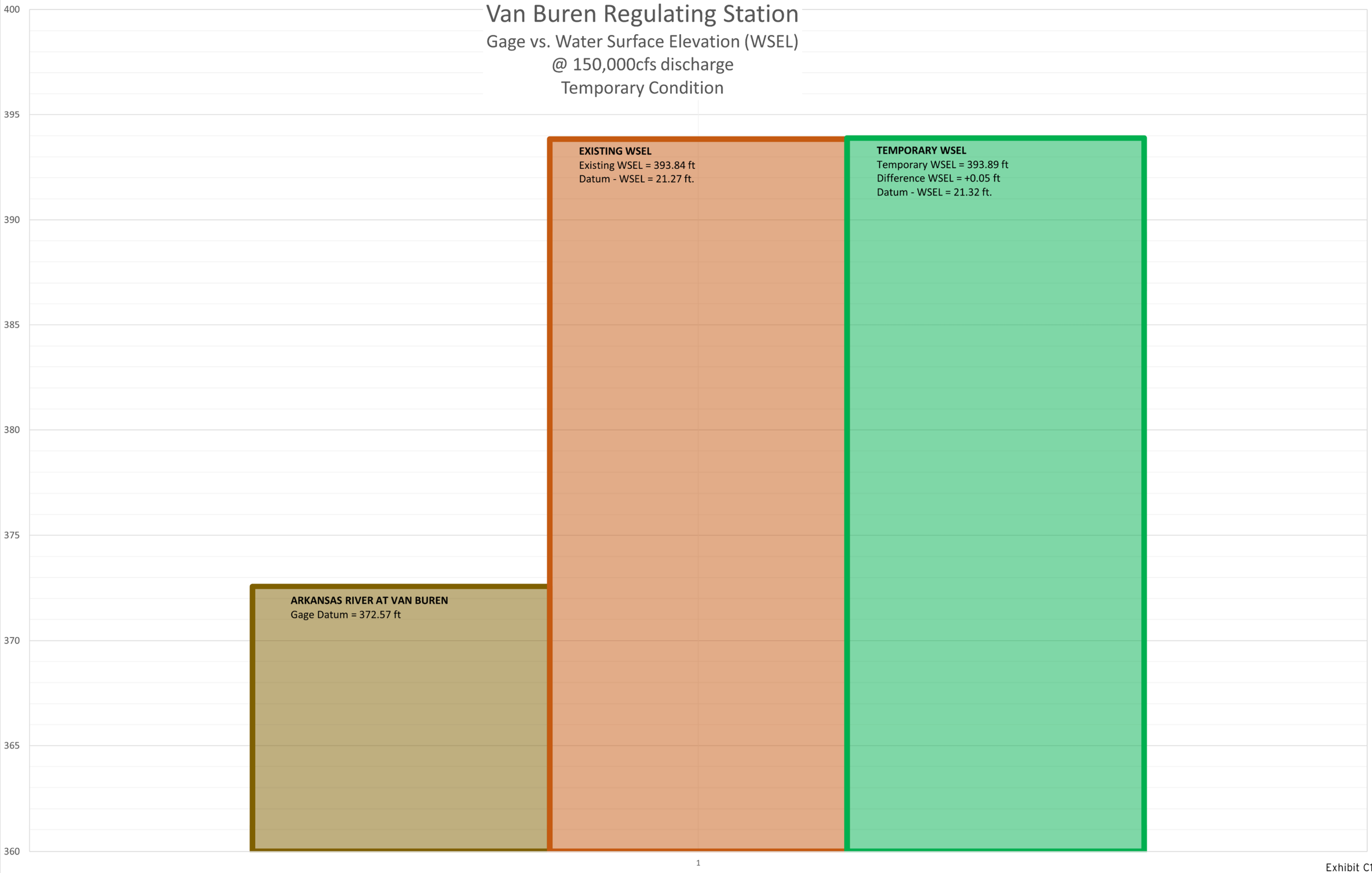

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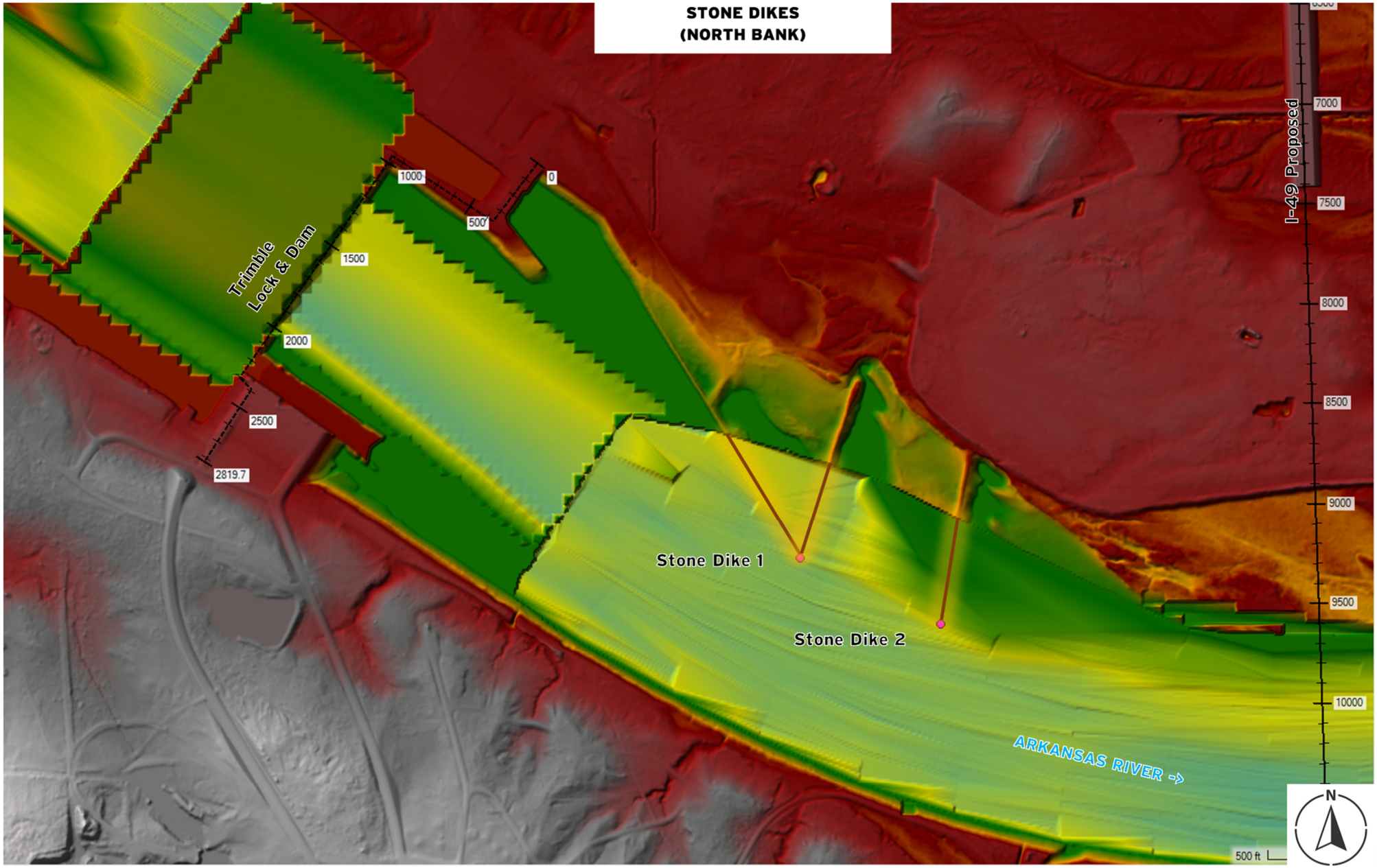


Map color from RAS model terrain is only for spatial reference.

Exhibit C1-16

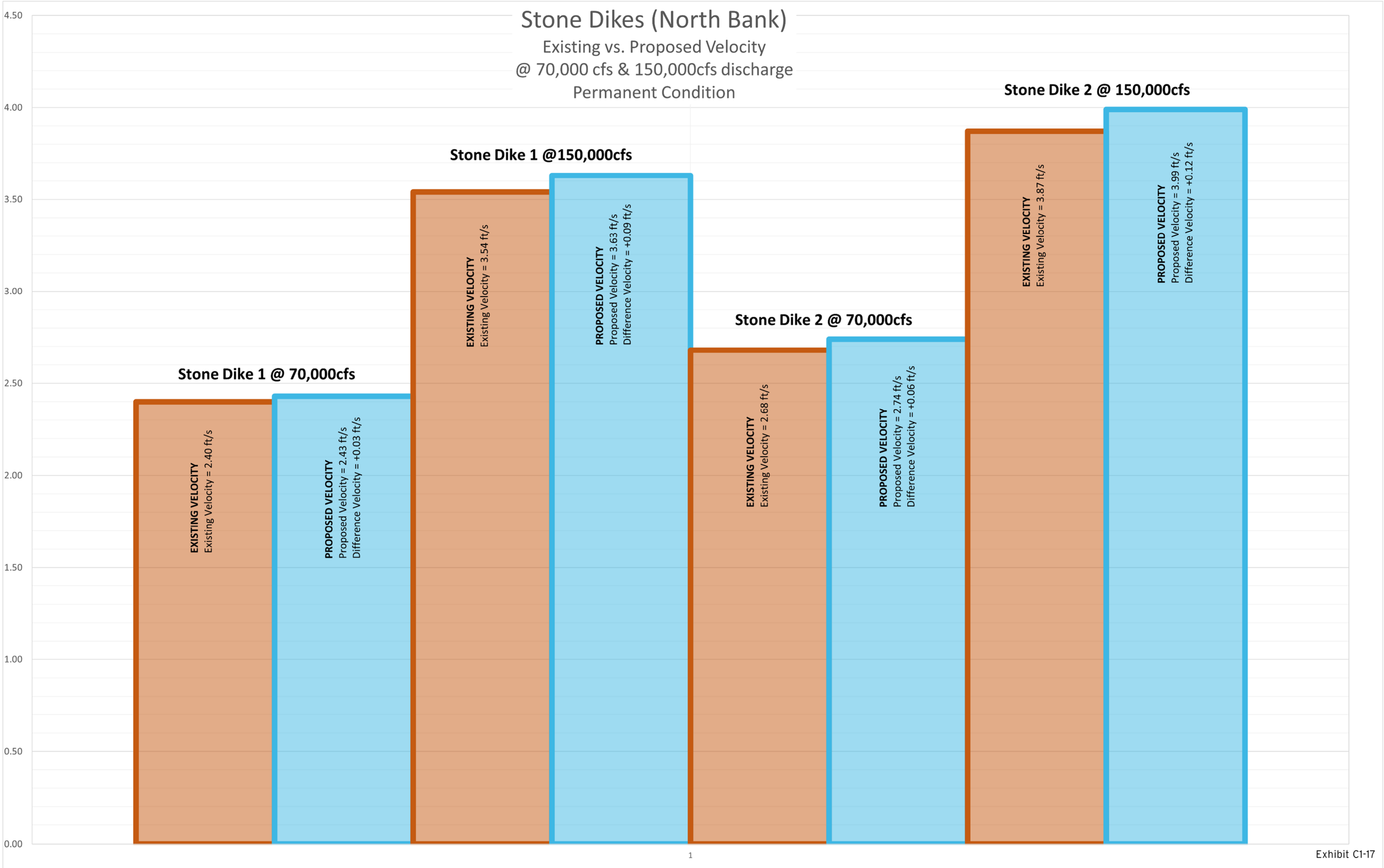


Exhibit C1-17

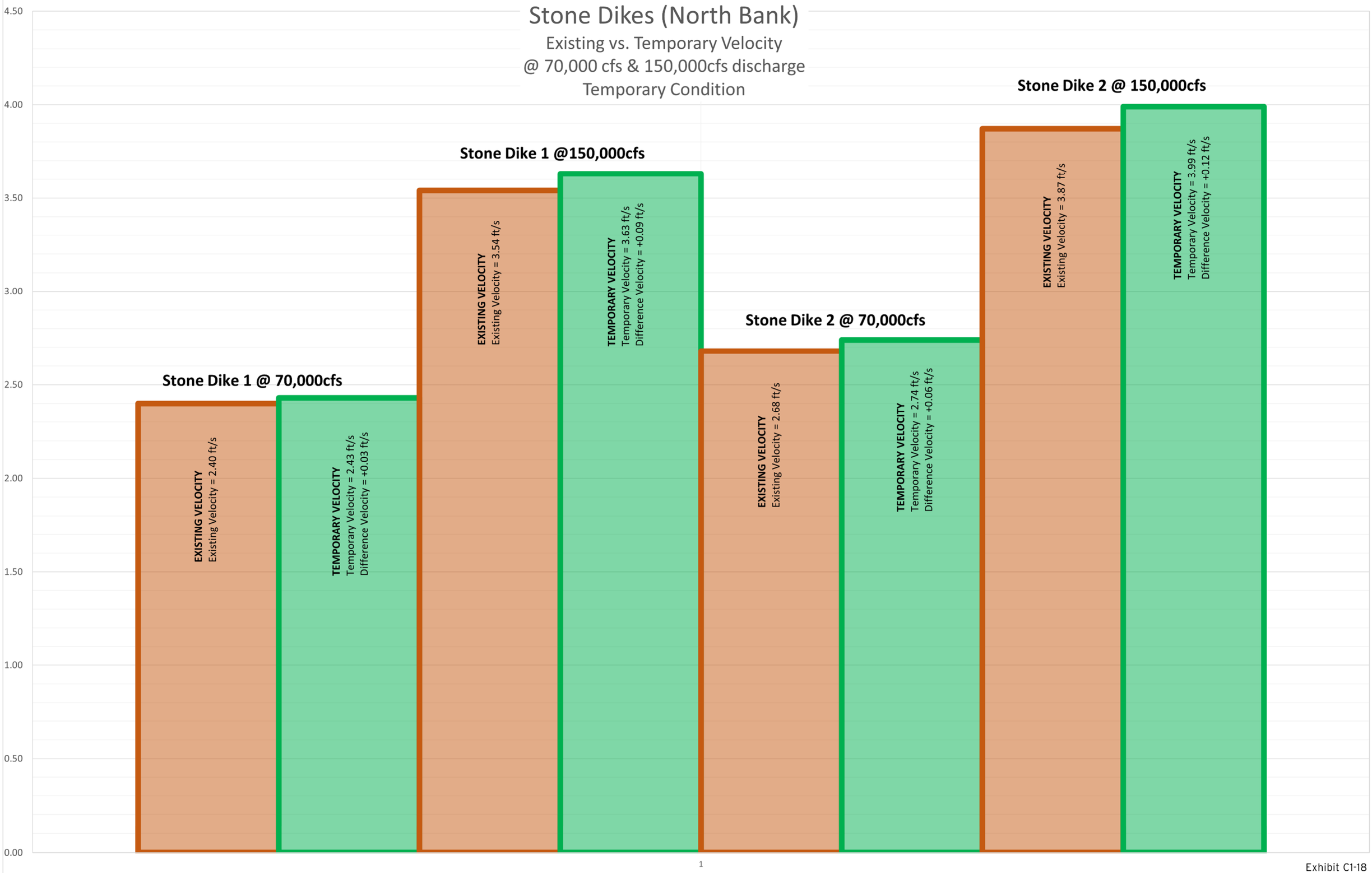
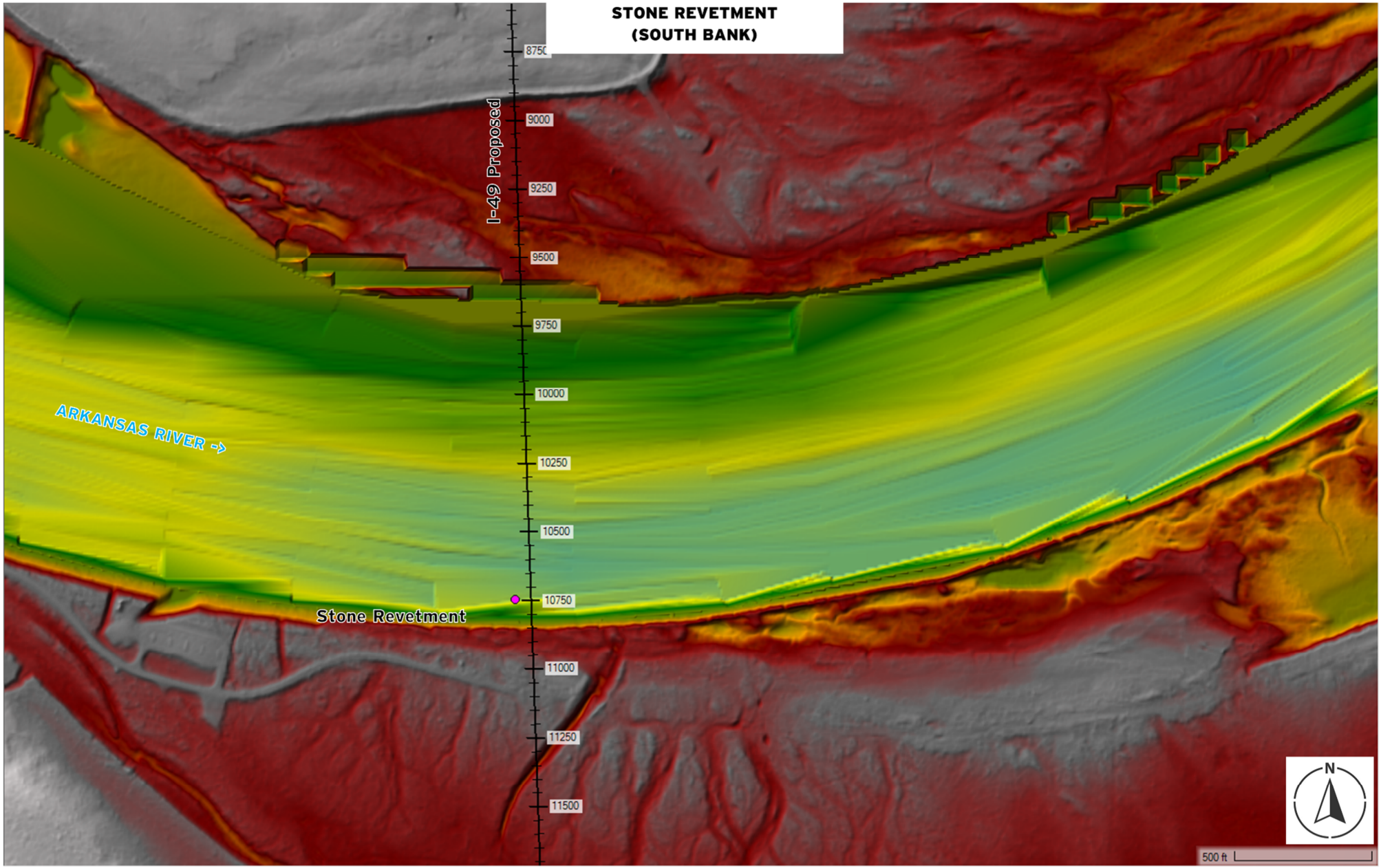
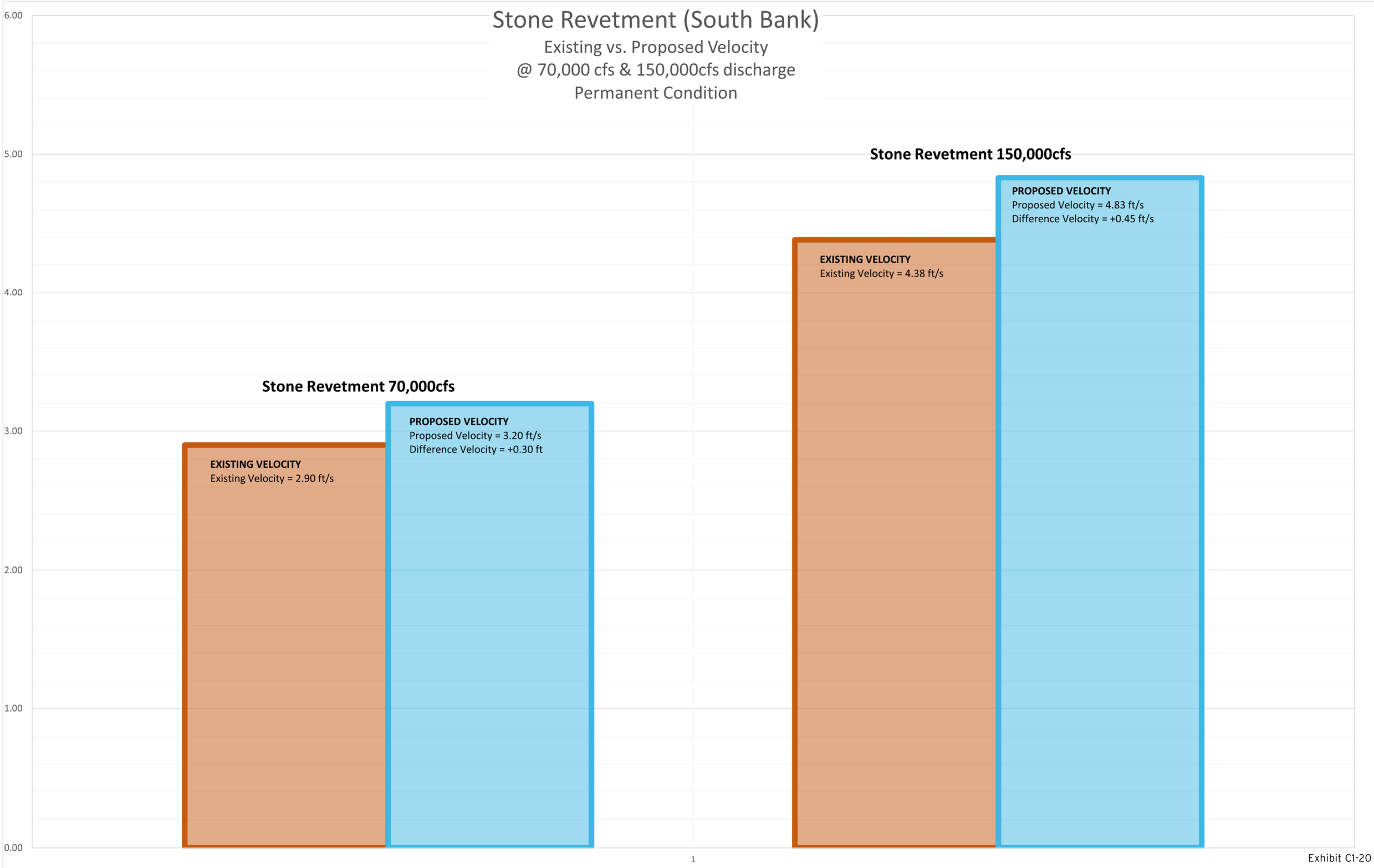


Exhibit C1-18



Map color from RAS model terrain is only for spatial reference.

Exhibit C1-19



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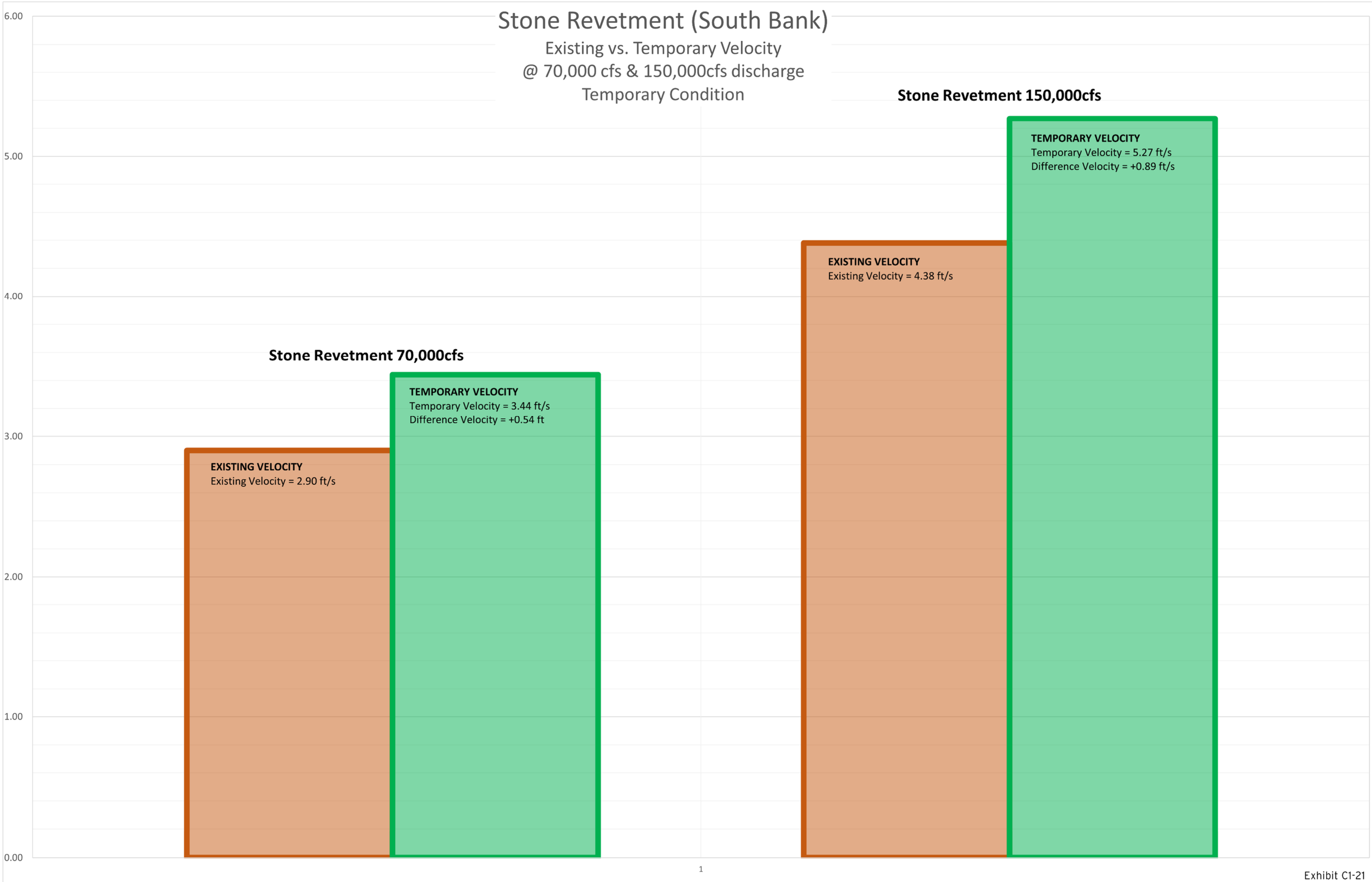


Exhibit C1-21

Proposed I-49 Arkansas River Bridge Pier 12 (Bent 13) in Existing Revetment
Replacement Gradation
using HEC-23 Design Guideline 11.3

	V max (from 2D model) =	4.92	ft/s (local at pier)
	V avg (from 1D model) =	8.85	ft/s (Vavg CH @ 291.69)
	Sg =	2.62	(typical for USACE revetment)
	g =	32.2	ft/s^2
	K1 =	1.6	square strut on round pier
	K2 =	1.1	used only for Vavg method; pier in bank of mild bend
	Vdes = K1 x Vmax =	7.87	ft/s (Vmax is local, because navigable channel is not expected to shift)
USE	Vdes = K1 x K2 x Vavg =	15.58	ft/s (Vavg CH @ 291.69)
	d50 =	1.61	ft
		19.3	inches

Revetment replacement riprap shall have a specific gravity of 2.62,
instead of the typical ArDOT 2.24 minimum, with the following gradation,
verified against the USACE SWL "Isbash" spreadsheet, and EM 1110-2-1601, meeting Gradation A.

Diameter	Governing Criteria	Weight
D100 = 36 inch	*max for ArDOT to maintain by truck*	*W100 = 2300 lbs*
D85 = 30 to 34 inch	*greater than USACE min, less than D100*	*W85 = 1300 to 1900 lbs*
D50 = 19 to 24 inch	*no less than calc min, and near USACE max*	*W50 = 340 to 680 lbs*
D15 = 5 to 10 inch	*between USACE min and max*	*W15 = 6 to 50 lbs*

Created by: JMB 10/30/23
Checked by: JAA 11/15/23

11.3 SIZING ROCK RIPRAP AT BRIDGE PIERS

To determine the required size of stone for riprap at bridge piers, NCHRP Project 24-23 recommends using the rearranged Isbash equation from the Federal Highway Administration's Hydraulic Engineering Circular No. 23 (Second Edition) (Lagasse et al. 2001) to solve for the median stone diameter:

$$d_{50} = \frac{0.692(V_{des})^2}{(S_g - 1)2g} \qquad (11.1)$$

where:
- d_{50} = Particle size for which 50% is finer by weight, ft (m)
- V_{des} = Design velocity for local conditions at the pier, ft/s (m/s)
- S_g = Specific gravity of riprap (usually taken as 2.65)
- g = Acceleration due to gravity, 32.2 ft/s^2 (9.81 m/s^2)

It is important that the velocity used in Equation 11.1 is representative of conditions in the immediate vicinity of the bridge pier including the constriction caused by the bridge. If the cross-section or channel average velocity, V_{avg}, is used, then it must be multiplied by factors that are a function of the shape of the pier and its location in the channel:

$$V_{des} = K_1 K_2 V_{avg} \qquad (11.2)$$

If a velocity is distribution available from stream tube or flow distribution output of a 1-D model or directly from a 2-D model, then only the pier shape coefficient should be used. The maximum velocity in the active channel V_{max} is often used since the channel could shift and the highest velocity could impact any pier.

$$V_{des} = K_1 V_{max} \qquad (11.3)$$

where:
- V_{des} = Local velocity at pier, ft/s (m/s)
- K_1 = Shape factor equal to 1.5 for round-nose piers or 1.7 for square-faced piers
- K_2 = Velocity adjustment factor for location in the channel (ranges from 0.9 for a pier near the bank in a straight reach, to 1.7 for a pier located in the main current of flow around a sharp bend)
- V_{avg} = Channel average velocity at the bridge, ft/s (m/s)
- V_{max} = Maximum velocity in the active channel, ft/s (m/s)

Once a design size is established, a standard gradation class can be selected, if design criteria and economic considerations permit. Using standard sizes the appropriate gradation can be achieved by selecting the next size larger size class, thereby creating a slightly over-designed riprap installation, but economically a less expensive one.

Isbash spreadsheet

from USACE SWL (Edmund Howe) to HNTB (John Blancett) on 10/12/23

Cells with yellow fill and blue text are user inputs. | **User inputs can be varied to compare resultant stone size.**

Selected D50 to be plotted on following gradation sheets	D50 Plotted (inches)	**19**

Unit weight of water	62.4	lbs/ft3
specific gravity	2.62	
unit weight solid stone, pcf	163.5	lbs/ft3
High turbulence c =	0.86	
Low turbulence c =	1.2	

D50 Diameter	volume sphere	volume Cube	Average volume between Sphere and cube	Average Weight Between sphere and cube	Weight: EM 1110-2-1601
inches	ft3	ft3	ft3	lbs	lbs
19.0	2.08	4.0	3.02	**494**	**340**

Use the following to determine the appropriate D50 diameter

INPUT	**Ark49**
unit weight solid stone, pcf	163.49
velocity, fps	**4.92**
turbulence constant	**0.86**
diameter safety factor	**1.20**
angle of sideslope, H:V	**1.25**
riprap angle of repose, deg	**40**
Froude number (calculated or from RAS. Not used in calculations. Just for reference)	over 1
OUTPUT	
unit weight term	1.620
w/o sideslope K1	
D50, ft	0.38
W50, lb	4.6
w/ sideslope K1	
angle of sideslope, rad	0.675
angle of sideslope, deg	38.660
riprap angle of repose, rad	0.698
K1	0.24
D50, ft	**1.60**
W50, lb	349.3
D50, inches	19

$$W_{\%} = \left(\frac{\pi \gamma_s D_{\%}^{\ 3}}{6} \right)$$

$$D_{\%} = \left(\frac{6 W_{\%}}{\pi \gamma_s} \right)^{1/3} \qquad (3\text{-}1)$$

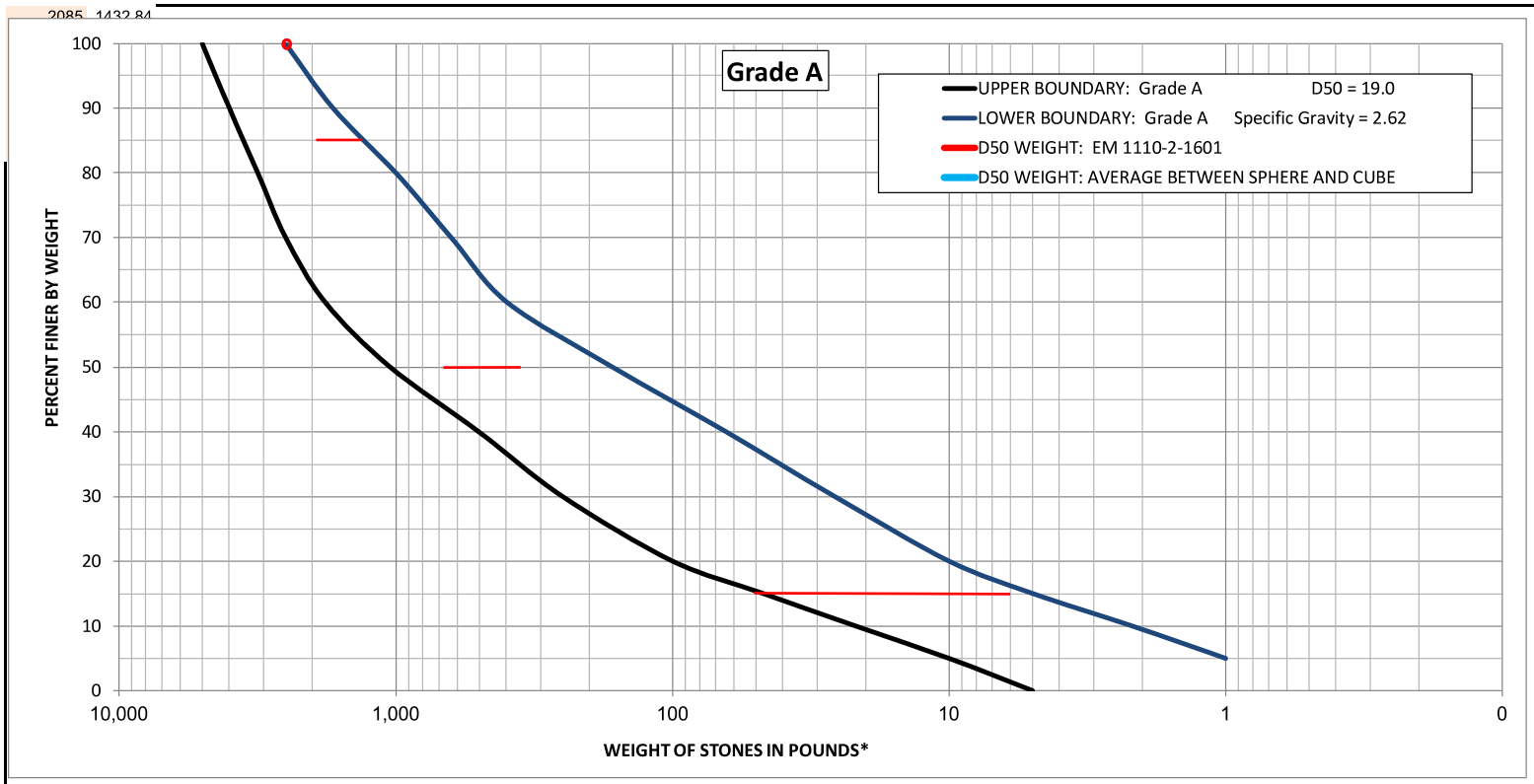
where

$D_{\%}$ = equivalent-volume spherical stone diameter, ft

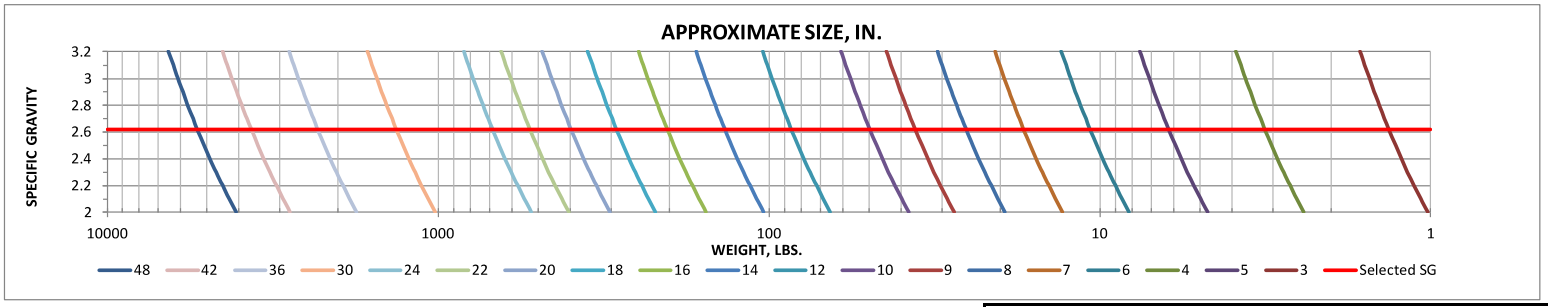
$W_{\%}$ = weight of individual stone having diameter of $D_{\%}$

Created by: JMB 10/25/23

Checked by: JAA 11/15/23



WEIGHT DISTRIBUTION CURVE
SPECIFIC GRAVITY OF ROCK: 2.62



PROJECT: Arkanas R I-49

AREA: DS of Trimble

DATE PERFORMED: October 25, 2023

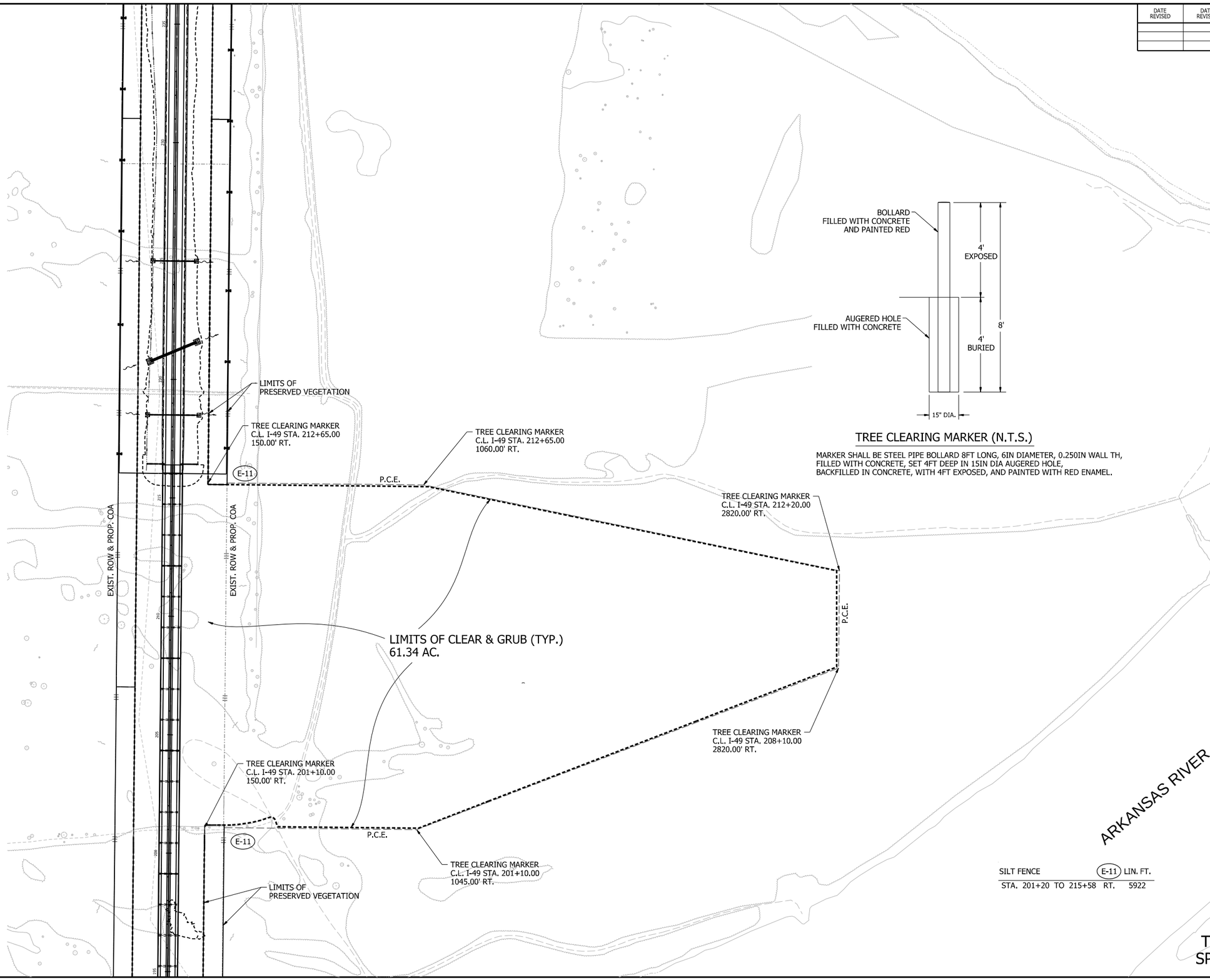
PERFORMED BY: John Blancett, PE (HNTB)

GRADATION CURVE

\\kcow00\Jobs\63136\Design\WaterRes\Dikes-and-Revetments\pier\final-408\[Ark49_riprap_lsbash.xlsx]Iterations

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	56	784
		SPECIAL DETAILS				

PRELIMINARY
SUBJECT TO REVISION



TREE CLEARING MARKER (N.T.S.)

MARKER SHALL BE STEEL PIPE BOLLARD 8FT LONG, 6IN DIAMETER, 0.250IN WALL TH, FILLED WITH CONCRETE, SET 4FT DEEP IN 15IN DIA AUGERED HOLE, BACKFILLED IN CONCRETE, WITH 4FT EXPOSED, AND PAINTED WITH RED ENAMEL.

0 200 400 600 800
HORIZ. SCALE IN FEET: 1"=400'

N

LEGEND

E-11 SILT FENCE

NOTES
1. TREE CLEARING AREA TO BE CLEARED AND GRUBBED FOR THIS PROJECT.
2. TREE CLEARING MARKERS ARE INCIDENTAL AND INCLUDED IN THE CLEARING AND GRUBBING WITHIN THIS AREA.

SILT FENCE	E-11 LIN. FT.
STA. 201+20 TO 215+58 RT.	5922

TREE CLEARING SPECIAL DETAILS

Exhibit C1-25

2/5/2024 2:44:15 PM
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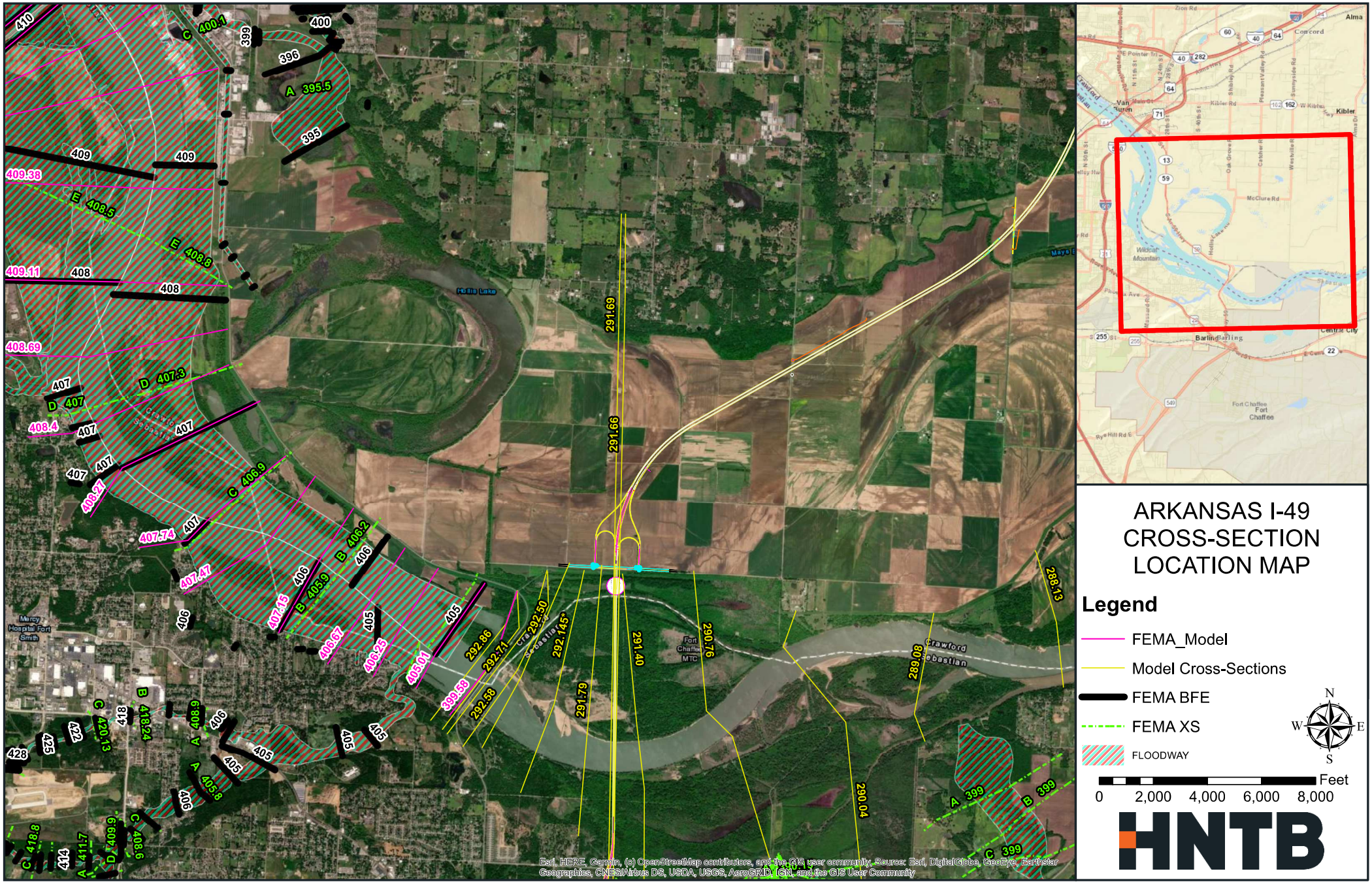

Exhibit C1-26

1D HEC-RAS Water Surface Summary

	HEC-RAS River Station	Existing W.S. Elev	Proposed W.S. Elev	Change in W.S. Elev
	300.5	411.85	411.85	0.00
	300.49	411.51	411.51	0.00
	300.40 BR U	410.76	410.76	0.00
	300.40 BR D	410.82	410.82	0.00
	300.28	410.96	410.96	0.00
	299.74	410.62	410.62	0.00
	299.63 BR U	410.00	410.00	0.00
	299.63 BR D	410.17	410.17	0.00
	299.52	410.28	410.28	0.00
	299.06	410.01	410.00	-0.01
	298.36	409.84	409.83	-0.01
Zone AE (no rise required)	297.22	409.75	409.75	0.00
Zone A	296.18	409.13	409.13	0.00
	295	408.69	408.69	0.00
	294.09	408.01	408.01	0.00
	292.91	406.77	406.76	-0.01
	292.73	TRIMBLE LOCK & DAM		
	292.7	403.71	403.70	-0.01
	292.5	403.58	403.58	0.00
	292.145*	403.37	403.37	0.00
	291.79	402.55	402.54	-0.01
	291.69	402.63	402.66	0.03
	291.67 BR U 291.67 BR D	PROPOSED ARK I-49 BRIDGE		
	291.66	402.60	402.44	-0.16
	291.4	402.31	402.44	0.13
	291.1	402.37	402.36	-0.01
	290.76	402.00	402.00	0.00
	290.04	401.65	401.65	0.00

Section 408 Summary Report

Appendix C2

H&H Interior Drainage

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

Interior Drainage Report

HWY: Route 49 – Gun Club Road to New Town Road
JOB: 040902
County: Crawford

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1.0 Purpose 2
2.0 Design Discharges 4
3.0 Existing Conditions 5
4.0 Proposed Conditions 7
5.0 Valley Storage 9
6.0 Conclusion 10
7.0 References 11

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Purpose

This Section 408 Report has been prepared in order to demonstrate that proposed changes to be implemented within the Interstate-49 project will maintain hydrologic neutrality for the 100-year discharges, which would also result in hydraulic neutrality for the existing culvert that runs underneath the Arkansas River Levee. This is a requirement in order to facilitate accreditation of the Arkansas River Levee, maintained by the United States Army Corps of Engineers (USACE), from the Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP). This requirement was established in 1899 in Section 14 of the Rivers and Harbors Act, codified at 33. U.S.C. 408. This report aims to demonstrate that the culvert will not suffer any adverse impacts due to the development of I-49.

Figure 1: Project Location Map

Design Discharges

A hydrologic analysis for the existing structure underneath the Levee was performed according to National Resources Conservation Service (NRCS) Runoff Curve Number Method. HEC-HMS (Hydraulic Engineering Center Hydrologic Modeling System) Version 4.6 was used to calculate the peak discharges. The Soil Conservation Service (SCS) Curve Number Unit Hydrograph option was used to predict runoff rates and volumes. The subbasins were routed using the Lag routing method. Soil data was acquired from the United States Geological Survey (USGS), the soil type for the area relevant to this report is classified as exclusively Type B soil. The HEC-HMS model and outputs can be found in **Appendix B**.

The drainage areas for the hydrologic analysis were delineated in ArcMap version 10.8.2 using 2018 United States Geological Survey (USGS) LIDAR data. The drainage area maps can be found in **Appendix A.**

Precipitation data was obtained from the National Oceanic and Atmospheric Administration's (NOAA) Atlas 14. A copy of the rainfall data is provided in **Appendix A.**

The time of concentration computations follow the methodology described in TR-55 by the NRCS. The path with the longest time of concentration was used to calculate the rainfall intensity. The time of concentration was used to determine the lag time for each subbasin using the standard that the lag time is 60% of the calculated time of concentration. Time of concentration calculations can be found in **Appendix A.**

Existing Conditions

There is an existing 24” reinforced concrete pipe (RCP) that runs underneath the Crawford County Levee, flowing from north to south (35˚21’43.97” N 94˚16’42.68” W). The purpose of this report is not to analyze the existing culvert hydraulically, but to show that the proposed I-49 project alignment will not result in any adverse hydrologic impact. There are no changes being proposed to the existing culvert. Figure 2 shows the existing drainage area map, which also provides the location of the existing levee culvert.

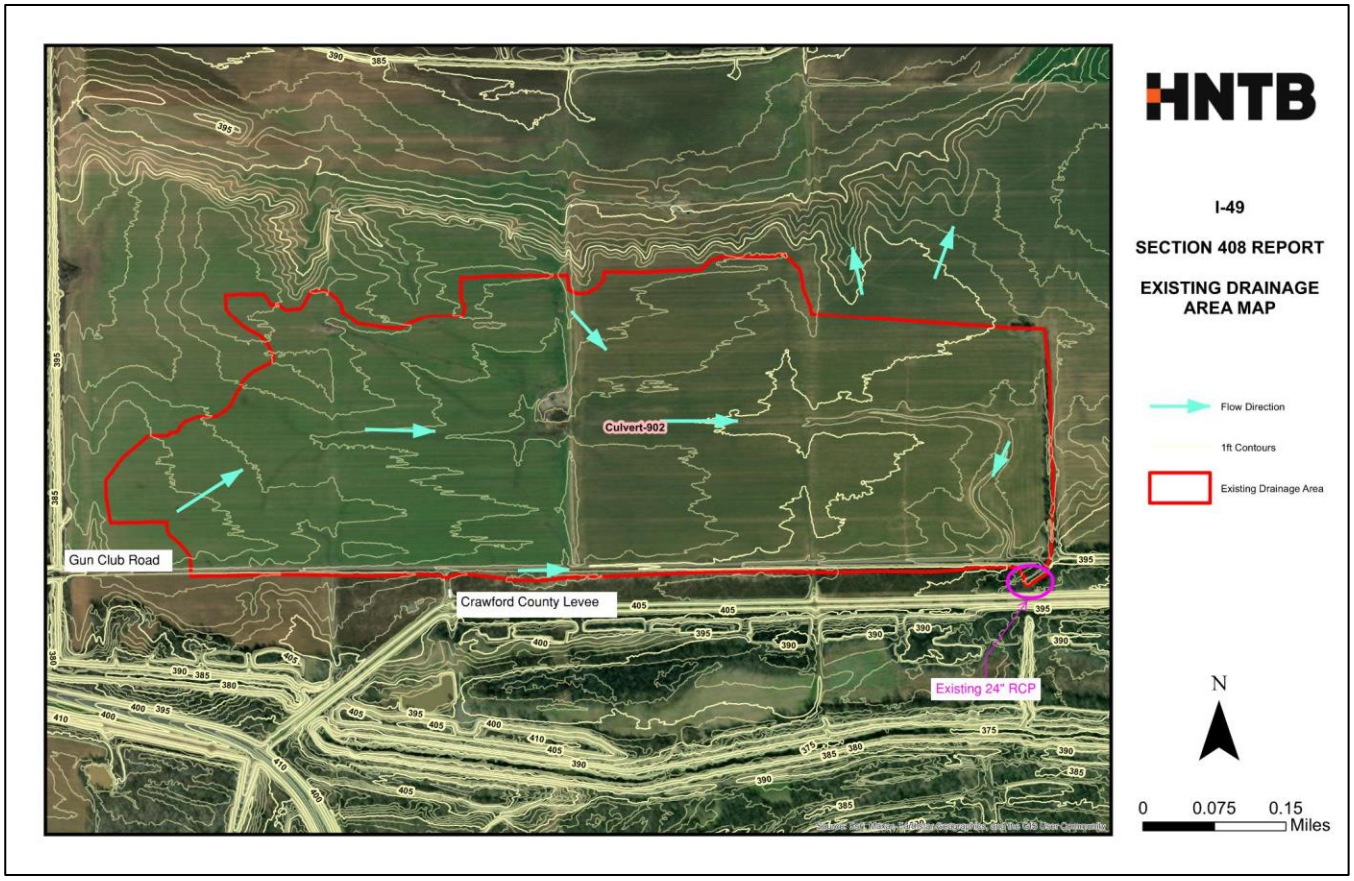


Figure 2: Existing Drainage Area Map

Proposed Conditions

The drainage patterns and structures for the I-49 project were designed to recreate the existing drainage patterns. This was done to limit the possibility of any adverse impacts to any of the surrounding structures and/or landowners. Figure 3 shows the proposed drainage area map. Table 1 shows a comparison between the existing and proposed hydrologic parameters. Table 2 shows a comparison between the existing and proposed peak discharges for all storm events.

Table 1: Existing vs Proposed Hydrologic Parameters

Element	Drainage Area (ac)		Curve Number		Lag Time (min)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Subbasin-1		109.18		61.6		47.09
Subbasin-2		41.86		65.4		10.66
Subbasin-3		4.55		74.4		6
Subbasin-4		4.35		69.4		6
Subbasin-5		8.19		69.8		6
Culvert-902	168.13		61.0		35.16	
Weighted Total	168.13	168.13	61.0	63.5	35.16	50.81

Table 2: Existing vs Proposed Peak Discharges

Storm Event	Peak Discharge (cfs)		
	Existing	Proposed	Difference
5-Year	90.4	88.1	-2.3
10-year	125.6	117.0	-8.6
25-year	181.8	164.7	-17.1
50-year	229.2	204.7	-24.5
100-year	281.1	248.8	-32.3

As previously mentioned, the drainage for this project has been designed to replicate the existing drainage patterns to not adversely impact any structures or landowners. The above tables demonstrate that the total drainage area contributing to the Levee culvert does not change at all from existing to proposed. Although the cumulative curve number has increased, the cumulative lag time has also increased resulting in a decrease in the peak flows. Note that Subbasins 3, 4, and 5 applied the minimum allowable lag time. The results show that the peak flow to the existing culvert will decrease in the proposed conditions as compared to the existing conditions.

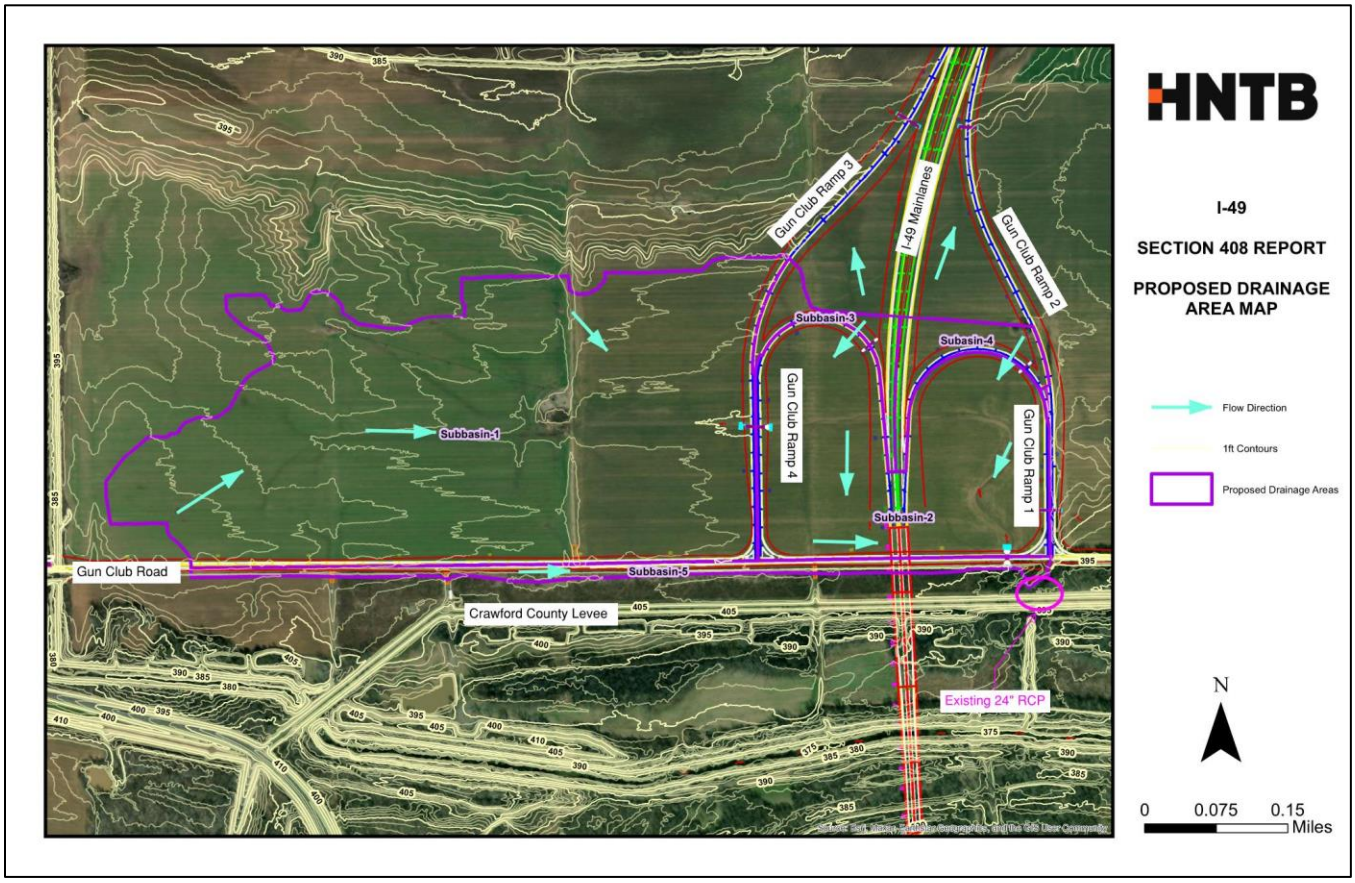


Figure 3: Proposed Drainage Area Map

Valley Storage

The development of the proposed I-49 project will not have any impact on any Floodplain Storage relevant to this report.

Conclusion

Based on the data that has been presented in this report, it can be concluded that the proposed I-49 project alignment and drainage patterns will not adversely impact the conditions at the levee culvert. This Section 408 Report has demonstrated that this project will not be injurious to the public interest and will not impair the usefulness of the levee nor the culvert.

References

Atlas 14, Volume 11: Precipitation-Frequency Atlas of the United States, December 2018, National Oceanic and Atmospheric Administration.

Drainage Manual, July 1982, Arkansas State Highway and Transportation Department.

Urban Hydrology for Small Watersheds, Natural Resources Conservation Service Technical Release 55, June 1986, U.S. Department of Agriculture, Washington, D.C.

APPENDIX A

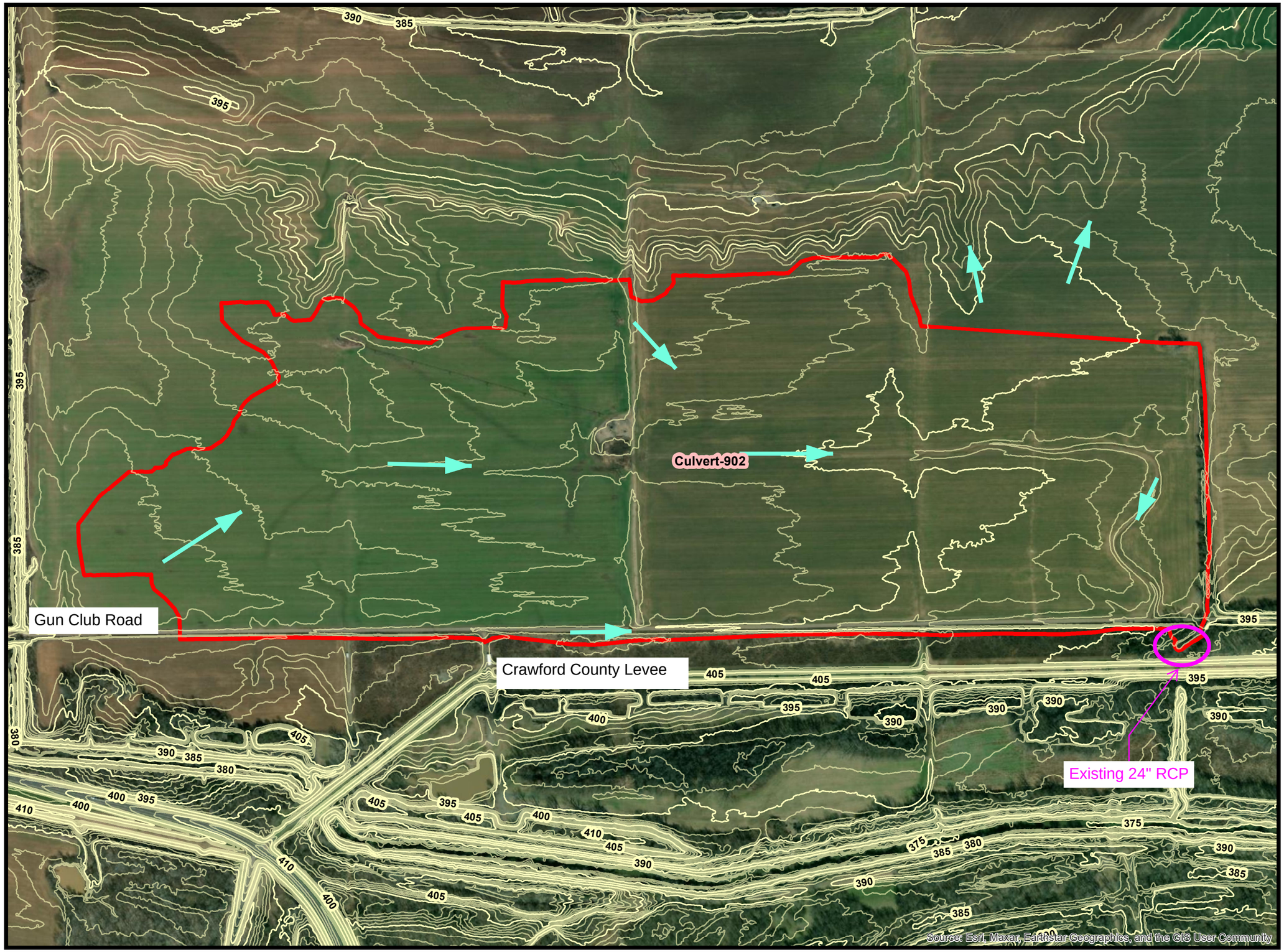
DRAINAGE AREA MAPS

HNTB

I-49

SECTION 408 REPORT

EXISTING DRAINAGE AREA MAP



Flow Direction

1ft Contours

Existing Drainage Area

N

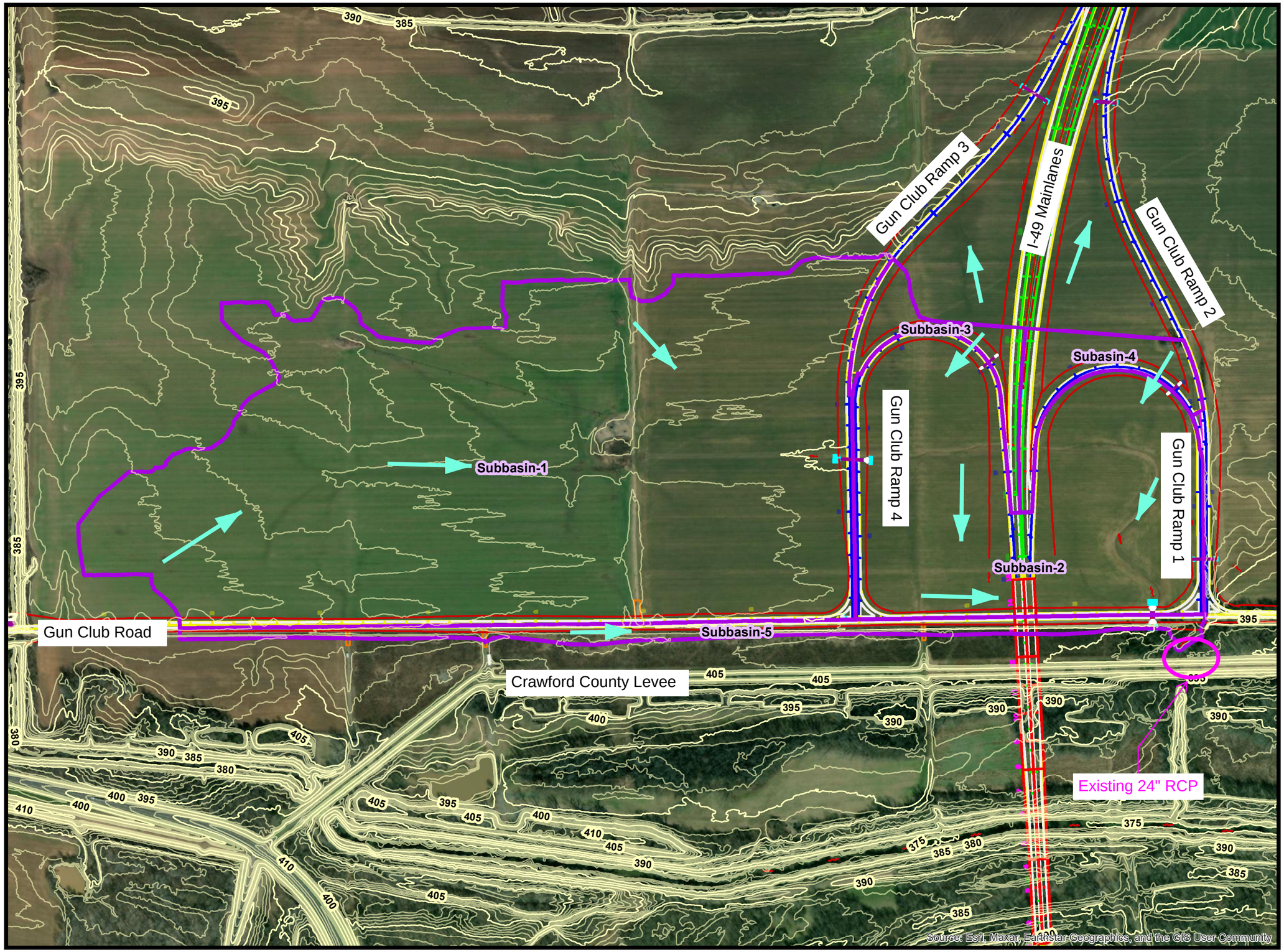
0 0.075 0.15 Miles

HNTB

I-49

SECTION 408 REPORT

PROPOSED DRAINAGE AREA MAP



Flow Direction

1ft Contours

Proposed Drainage Areas

N

0 0.075 0.15 Miles

APPENDIX B

NOAA RAINFALL DATA

NOAA Atlas 14, Volume 9, Version 2
Location name: Alma, Arkansas, USA*
Latitude: 35.4041°, Longitude: -94.2333°
Elevation: 426.21 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Michael Yekta, Geoffery Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.414 (0.346-0.494)	0.468 (0.391-0.558)	0.554 (0.462-0.662)	0.623 (0.518-0.747)	0.716 (0.578-0.871)	0.786 (0.624-0.965)	0.854 (0.661-1.07)	0.921 (0.690-1.17)	1.01 (0.732-1.30)	1.07 (0.764-1.40)
10-min	0.606 (0.507-0.723)	0.685 (0.573-0.817)	0.811 (0.676-0.969)	0.913 (0.758-1.09)	1.05 (0.847-1.28)	1.15 (0.914-1.41)	1.25 (0.968-1.56)	1.35 (1.01-1.71)	1.47 (1.07-1.90)	1.57 (1.12-2.05)
15-min	0.739 (0.619-0.882)	0.835 (0.699-0.997)	0.989 (0.825-1.18)	1.11 (0.925-1.33)	1.28 (1.03-1.56)	1.40 (1.12-1.72)	1.53 (1.18-1.90)	1.64 (1.23-2.09)	1.80 (1.31-2.32)	1.91 (1.37-2.50)
30-min	1.09 (0.910-1.30)	1.23 (1.03-1.47)	1.47 (1.22-1.76)	1.66 (1.37-1.98)	1.90 (1.53-2.31)	2.09 (1.65-2.56)	2.26 (1.75-2.82)	2.43 (1.82-3.09)	2.65 (1.93-3.42)	2.81 (2.01-3.68)
60-min	1.43 (1.20-1.71)	1.64 (1.38-1.96)	1.99 (1.66-2.38)	2.27 (1.89-2.72)	2.66 (2.15-3.24)	2.95 (2.35-3.63)	3.25 (2.51-4.06)	3.54 (2.66-4.50)	3.93 (2.86-5.09)	4.22 (3.02-5.53)
2-hr	1.78 (1.50-2.11)	2.06 (1.73-2.43)	2.51 (2.11-2.97)	2.89 (2.42-3.43)	3.41 (2.78-4.14)	3.82 (3.06-4.67)	4.23 (3.31-5.26)	4.65 (3.52-5.88)	5.21 (3.83-6.70)	5.64 (4.06-7.33)
3-hr	2.00 (1.70-2.36)	2.32 (1.96-2.73)	2.84 (2.40-3.35)	3.29 (2.77-3.89)	3.93 (3.23-4.76)	4.43 (3.58-5.42)	4.95 (3.90-6.15)	5.50 (4.19-6.94)	6.23 (4.61-8.01)	6.81 (4.93-8.82)
6-hr	2.45 (2.09-2.86)	2.80 (2.38-3.27)	3.40 (2.89-3.98)	3.93 (3.33-4.61)	4.71 (3.92-5.69)	5.35 (4.37-6.51)	6.02 (4.79-7.44)	6.74 (5.20-8.47)	7.75 (5.79-9.90)	8.54 (6.24-11.0)
12-hr	2.99 (2.57-3.46)	3.33 (2.86-3.86)	3.94 (3.38-4.58)	4.50 (3.85-5.24)	5.35 (4.50-6.43)	6.06 (4.99-7.33)	6.82 (5.48-8.37)	7.64 (5.95-9.55)	8.81 (6.66-11.2)	9.76 (7.19-12.5)
24-hr	3.53 (3.07-4.06)	3.93 (3.41-4.52)	4.64 (4.01-5.34)	5.28 (4.55-6.10)	6.24 (5.29-7.43)	7.04 (5.85-8.44)	7.90 (6.40-9.62)	8.82 (6.92-10.9)	10.1 (7.71-12.8)	11.2 (8.31-14.2)
2-day	4.04 (3.54-4.61)	4.61 (4.03-5.25)	5.57 (4.86-6.37)	6.42 (5.57-7.35)	7.63 (6.50-8.98)	8.62 (7.20-10.2)	9.65 (7.86-11.6)	10.7 (8.47-13.2)	12.2 (9.37-15.3)	13.4 (10.1-16.9)
3-day	4.38 (3.85-4.97)	5.02 (4.41-5.70)	6.12 (5.36-6.95)	7.06 (6.16-8.05)	8.42 (7.20-9.85)	9.51 (7.98-11.2)	10.6 (8.71-12.8)	11.8 (9.39-14.4)	13.5 (10.4-16.7)	14.8 (11.1-18.5)
4-day	4.67 (4.12-5.27)	5.35 (4.72-6.05)	6.50 (5.72-7.37)	7.50 (6.57-8.52)	8.94 (7.67-10.4)	10.1 (8.50-11.9)	11.3 (9.27-13.5)	12.5 (9.99-15.2)	14.3 (11.0-17.7)	15.6 (11.8-19.5)
7-day	5.42 (4.82-6.08)	6.16 (5.46-6.91)	7.39 (6.55-8.32)	8.46 (7.46-9.55)	9.99 (8.63-11.6)	11.2 (9.51-13.1)	12.5 (10.3-14.8)	13.8 (11.1-16.7)	15.6 (12.2-19.2)	17.1 (13.0-21.2)
10-day	6.13 (5.47-6.85)	6.90 (6.15-7.71)	8.18 (7.28-9.16)	9.29 (8.23-10.4)	10.9 (9.41-12.5)	12.1 (10.3-14.1)	13.4 (11.1-15.8)	14.7 (11.9-17.7)	16.6 (13.0-20.3)	18.0 (13.8-22.3)
20-day	8.20 (7.38-9.08)	9.09 (8.17-10.1)	10.6 (9.47-11.7)	11.8 (10.5-13.1)	13.5 (11.8-15.4)	14.9 (12.7-17.0)	16.2 (13.6-18.9)	17.6 (14.3-20.9)	19.5 (15.3-23.6)	20.9 (16.1-25.6)
30-day	9.82 (8.88-10.8)	10.9 (9.83-12.0)	12.6 (11.3-13.9)	14.0 (12.6-15.5)	16.0 (14.0-18.0)	17.5 (15.0-19.9)	19.0 (15.9-22.0)	20.5 (16.7-24.2)	22.5 (17.8-27.1)	24.0 (18.6-29.3)
45-day	11.7 (10.7-12.9)	13.0 (11.8-14.3)	15.2 (13.7-16.7)	16.9 (15.3-18.7)	19.3 (17.0-21.7)	21.1 (18.3-23.9)	22.9 (19.3-26.4)	24.7 (20.2-29.0)	27.0 (21.5-32.4)	28.7 (22.4-34.9)
60-day	13.2 (12.1-14.5)	14.8 (13.5-16.2)	17.4 (15.8-19.0)	19.5 (17.6-21.4)	22.3 (19.7-24.9)	24.5 (21.2-27.6)	26.6 (22.5-30.5)	28.7 (23.5-33.6)	31.4 (25.0-37.5)	33.4 (26.2-40.4)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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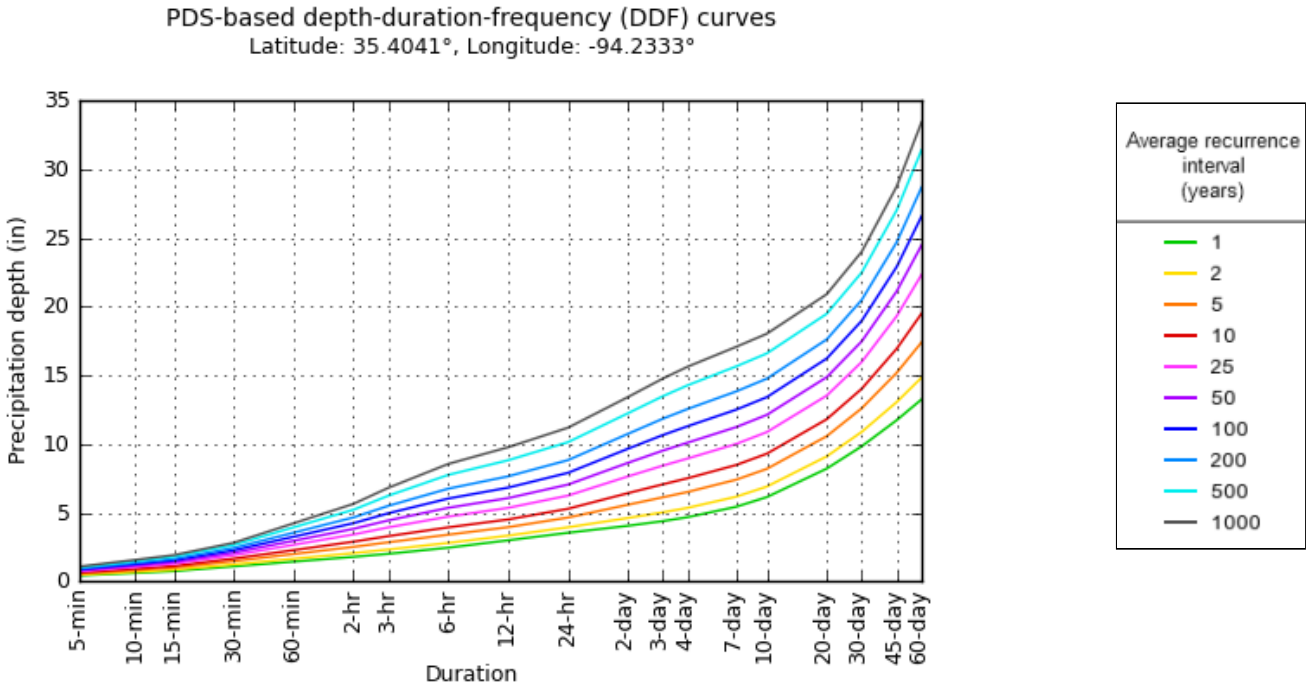
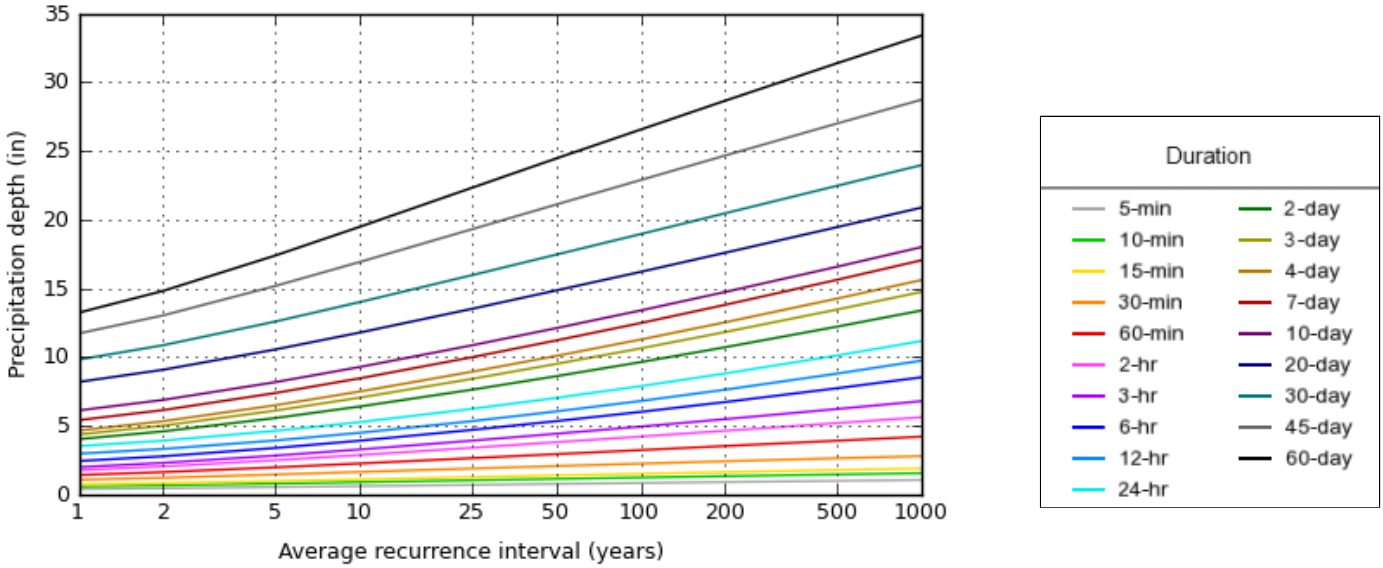
PF graphical





NOAA Atlas 14, Volume 9, Version 2

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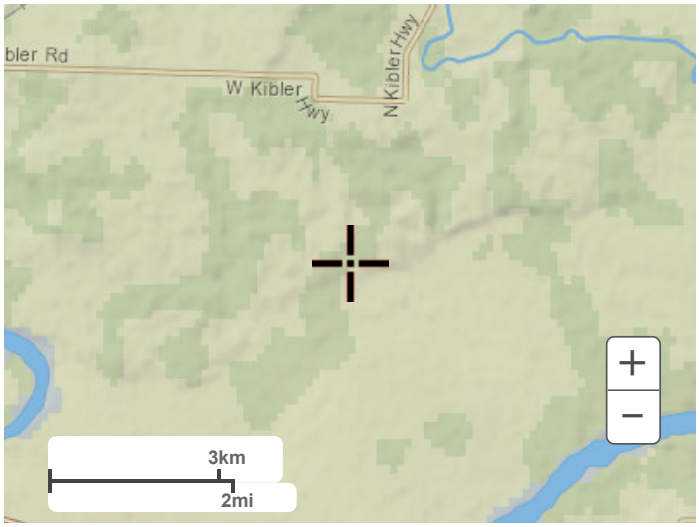
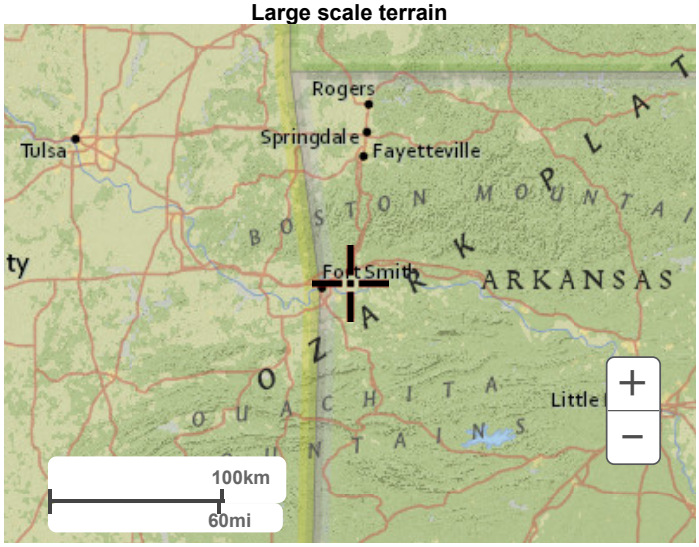
Maps & aerials

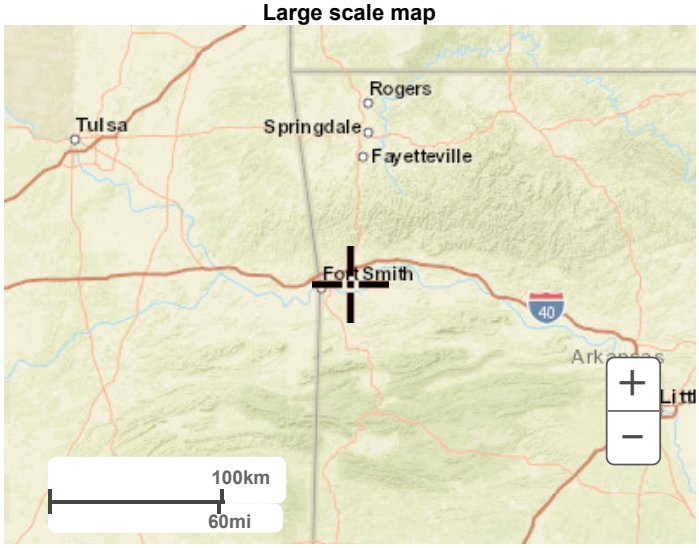
Small scale terrain



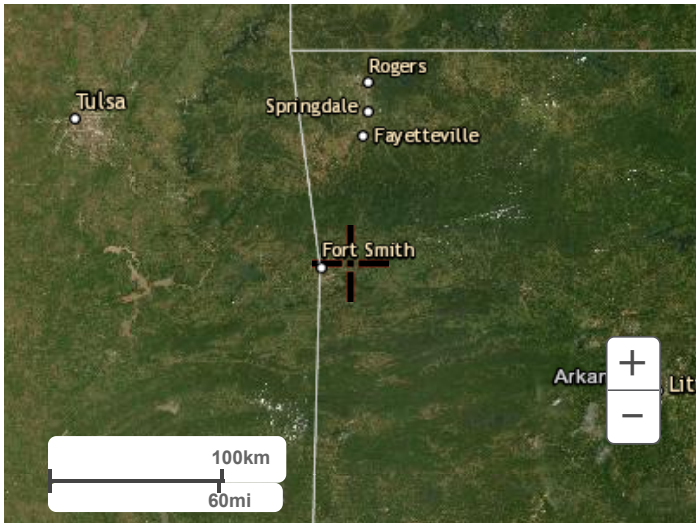
Large scale terrain



Large scale map



Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

APPENDIX C

LAG TIME AND CURVE NUMBER CALCULATIONS

COUNTY:	Crawford
Subbasin-1	

	Elev 1	404.00		
	Elev 2	403.50		
Sheet Flow	**SHEET FLOW**	**1**		
	Surface description (Table 4-6)	Dense grasses		
	Manning's roughness coefficient, n (Ta	0.24		
	Flow length, L (total L ≤ 300 ft) (ft)	100		
	2-year 24-hour rainfall depth (in.)	3.93		
	Sheet flow slope, S (ft/ft)	0.005		
	Tt (hrs) =	0.3737	**Tsheet**	**0.3737**

		Grass V-Ditch		
	Elev 1	403.50		
	Elev 2	402.00		
Shallow Concentrated Flow	**SHALLOW CONCENTRATED FLOW**	**2**		
	Surface Description (paved, unpaved)	Unpaved		
	Flow Length, L (ft)	1157.7		
	Shallow flow slope, S (ft/ft)	0.00		
	K x $S^{0.5}$ (K=16.13(unpaved), 20.32(pav	0.58		
	Tt (hrs) =	0.55	**Tshallow**	**0.5537**

		Natural Channel, V-Ditch		
	Elev 1	402.00		
	Elev 2	397.97		
Channelized Flow	**CHANNELIZED FLOW**	**3**		
	Bottom Width (ft)	50		
	Side slope 1 (H:1)	150		
	Side slope 2 (H:1)	150		
	Depth of Channel (ft)	1		
	Channel Slope, S (ft/ft)	0.002		
	Channel Description	Natural Channel, good condition		
	Cross Sectional Flow Area (ft^2)	200.00		
	Wetted Perimeter (ft)	350.01		
	Hydraulic Radius (ft)	0.57		
	Manning Roughness Coefficient, n	0.025		
	Flow Rate (ft^3/s)	340.94		
	Velocity (ft/s)	1.70		
	Flow Length (ft)	2335.8		
	Tt (hrs) =	0.3806	**Tchannel**	**0.3806**

Tc (hours)	**1.3080**
Tc (min)	**78.48**
Lag (min)	**47.09**

COUNTY:	Crawford
Subbasin-2	

	Elev 1	405.50			
	Elev 2	398.00			
Sheet Flow	**SHEET FLOW**	**1**			
	Surface description (Table 4-6)	Dense grasses			
	Manning's roughness coefficient, n (Ta	0.24			
	Flow length, L (total L ≤ 300 ft) (ft)	50.18			
	2-year 24-hour rainfall depth (in.)	3.93			
	Sheet flow slope, S (ft/ft)	0.149461937			
	Tt (hrs) =	0.0553		**Tsheet**	**0.0553**

		Grass V-Ditch			
	Elev 1	398.00	This basin has no shallow flow, this is a placeholder		
	Elev 2	1.00			
Shallow Concentrated Flow	**Shallow flow**	**2**			
	Surface Description (paved, unpaved)	Unpaved			
	Flow Length, L (ft)	0.1			
	Shallow flow slope, S (ft/ft)	3970.00			
	K x $S^{0.5}$ (K=16.13(unpaved), 20.32(pav	1016.60			
	Tt (hrs) =	0.00		**Tshallow**	**0.0000**

		Natural Channel, V-Ditch			
	Elev 1	398.00			
	Elev 2	393.45			
Channelized Flow	**CHANNELIZED FLOW**	**3**			
	Bottom Width (ft)	5			
	Side slope 1 (H:1)	3			
	Side slope 2 (H:1)	3			
	Depth of Channel (ft)	2			
	Channel Slope, S (ft/ft)	0.002			
	Channel Description	Natural Channel, good condition			
	Cross Sectional Flow Area (ft^2)	22.00			
	Wetted Perimeter (ft)	17.65			
	Hydraulic Radius (ft)	1.25			
	Manning Roughness Coefficient, n	0.025			
	Flow Rate (ft^3/s)	64.34			
	Velocity (ft/s)	2.92			
	Flow Length (ft)	2535.37			
	Tt (hrs) =	0.2408		**Tchannel**	**0.2408**

Tc (hours)	**0.2961**
Tc (min)	**17.77**
Lag (min)	**10.66**

Curve Number Calculations						
Basin Name	Total DA (mi^2)	Incremental DA (mi^2)	Landuse	Soil	CN	Weighted CN
Subbasin-1	0.17059	0.00286	Paved - Roads	B	98	1.643003693
Subbasin-1	0.17059	0.16773	Open Space - Good	B	61	59.97731403
Subbasin-2	0.06543571	0.00777611	Paved - Roads	B	98	11.6
Subbasin-2	0.06543571	0.0576596	Open Space - Good	B	61	53.75101149
Subbasin-3	0.00714	0.00258	Paved - Roads	B	98	35.41176471
Subbasin-3	0.00714	0.00456	Open Space - Good	B	61	38.95798319
Subbasin-4	0.00677	0.00154	Paved - Roads	B	98	22.29246677
Subbasin-4	0.00677	0.00523	Open Space - Good	B	61	47.12407681
Subbasin-5	0.01275	0.00302	Paved - Roads	B	98	23.21254902
Subbasin-5	0.01275	0.00973	Open Space - Good	B	61	46.55137255
Culvert-902 EX	0.2627	0	Paved - Roads	B	98	0
Culvert-902 EX	0.2627	0.2627	Open Space - Good	B	61	61

Total		
Basin Name	Area (mi2)	CN
Subbasin-1	0.1706	61.6
Subbasin-2	0.06543571	65.4
Subbasin-3	0.0071	74.4
Subbasin-4	0.0068	69.4
Subbasin-5	0.0128	69.8
Culvert-902 EX	0.2627	61.0

APPENDIX D

HEC-HMS RESULTS

Project: Culvert 902 Simulation Run: Existing-005yr

Start of Run: 23Dec2020, 00:00 Basin Model: Existing
End of Run: 24Dec2020, 00:00 Meteorologic Model: 005YR
Compute Time: 17May2023, 13:12:56 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Culvert-902	0.2627	90.4	23Dec2020, 12:45	1.14
Junction-1	0.2627	90.4	23Dec2020, 12:45	1.14

Project: Culvert 902 Simulation Run: Existing-010yr

Start of Run: 23Dec2020, 00:00 Basin Model: Existing
End of Run: 24Dec2020, 00:00 Meteorologic Model: 010YR
Compute Time: 17May2023, 13:12:57 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Culvert-902	0.2627	125.6	23Dec2020, 12:44	1.52
Junction-1	0.2627	125.6	23Dec2020, 12:44	1.52

Project: Culvert 902 Simulation Run: Existing-025yr

Start of Run: 23Dec2020, 00:00 Basin Model: Existing
End of Run: 24Dec2020, 00:00 Meteorologic Model: 025YR
Compute Time: 17May2023, 13:12:57 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Culvert-902	0.2627	181.8	23Dec2020, 12:42	2.14
Junction-1	0.2627	181.8	23Dec2020, 12:42	2.14

Project: Culvert 902 Simulation Run: Existing-050yr

Start of Run: 23Dec2020, 00:00 Basin Model: Existing
End of Run: 24Dec2020, 00:00 Meteorologic Model: 050YR
Compute Time: 17May2023, 13:12:58 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Culvert-902	0.2627	229.2	23Dec2020, 12:42	2.69
Junction-1	0.2627	229.2	23Dec2020, 12:42	2.69

Project: Culvert 902 Simulation Run: Existing-100yr

Start of Run: 23Dec2020, 00:00 Basin Model: Existing
End of Run: 24Dec2020, 00:00 Meteorologic Model: 100YR
Compute Time: 17May2023, 13:12:58 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Culvert-902	0.2627	281.1	23Dec2020, 12:41	3.33
Junction-1	0.2627	281.1	23Dec2020, 12:41	3.33

Project: Culvert 902 Simulation Run: Proposed-005yr

Start of Run: 23Dec2020, 00:00 Basin Model: Proposed
End of Run: 24Dec2020, 00:00 Meteorologic Model: 005YR
Compute Time: 17May2023, 13:12:59 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin-1	0.1706	51.2	23Dec2020, 12:59	1.17
Reach-1	0.1706	51.1	23Dec2020, 13:04	1.16
Subbasin-2	0.0654	54.4	23Dec2020, 12:13	1.44
Subbasin-4	0.0068	9.0	23Dec2020, 12:07	1.73
Subbasin-5	0.0128	17.2	23Dec2020, 12:07	1.75
Subbasin-3	0.0071	11.8	23Dec2020, 12:07	2.11
Reach-2	0.0071	10.9	23Dec2020, 12:15	2.10
Reach-3	0.0068	9.0	23Dec2020, 12:13	1.72
Junction-1	0.2627	88.1	23Dec2020, 12:14	1.30

Project: Culvert 902 Simulation Run: Proposed-010yr

Start of Run: 23Dec2020, 00:00 Basin Model: Proposed
End of Run: 24Dec2020, 00:00 Meteorologic Model: 010YR
Compute Time: 17May2023, 13:13:00 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin-1	0.1706	70.8	23Dec2020, 12:58	1.55
Reach-1	0.1706	70.6	23Dec2020, 13:03	1.54
Subbasin-2	0.0654	71.7	23Dec2020, 12:13	1.87
Subbasin-4	0.0068	11.5	23Dec2020, 12:07	2.19
Subbasin-5	0.0128	22.0	23Dec2020, 12:07	2.22
Subbasin-3	0.0071	14.6	23Dec2020, 12:07	2.62
Reach-2	0.0071	13.4	23Dec2020, 12:15	2.61
Reach-3	0.0068	11.5	23Dec2020, 12:13	2.19
Junction-1	0.2627	117.0	23Dec2020, 12:13	1.70

Project: Culvert 902 Simulation Run: Proposed-025yr

Start of Run: 23Dec2020, 00:00 Basin Model: Proposed
End of Run: 24Dec2020, 00:00 Meteorologic Model: 025YR
Compute Time: 17May2023, 13:13:02 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin-1	0.1706	101.9	23Dec2020, 12:56	2.18
Reach-1	0.1706	101.8	23Dec2020, 13:01	2.17
Subbasin-2	0.0654	98.2	23Dec2020, 12:13	2.55
Subbasin-4	0.0068	15.2	23Dec2020, 12:07	2.93
Subbasin-5	0.0128	29.0	23Dec2020, 12:07	2.97
Subbasin-3	0.0071	18.6	23Dec2020, 12:07	3.42
Reach-2	0.0071	17.2	23Dec2020, 12:14	3.41
Reach-3	0.0068	15.2	23Dec2020, 12:13	2.93
Junction-1	0.2627	164.7	23Dec2020, 12:13	2.36

Project: Culvert 902 Simulation Run: Proposed-050yr

Start of Run: 23Dec2020, 00:00 Basin Model: Proposed
End of Run: 24Dec2020, 00:00 Meteorologic Model: 050YR
Compute Time: 17May2023, 13:13:03 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin-1	0.1706	128.4	23Dec2020, 12:55	2.74
Reach-1	0.1706	128.2	23Dec2020, 13:00	2.73
Subbasin-2	0.0654	119.6	23Dec2020, 12:12	3.16
Subbasin-4	0.0068	18.1	23Dec2020, 12:07	3.58
Subbasin-5	0.0128	34.5	23Dec2020, 12:07	3.62
Subbasin-3	0.0071	21.7	23Dec2020, 12:07	4.11
Reach-2	0.0071	20.1	23Dec2020, 12:14	4.10
Reach-3	0.0068	18.1	23Dec2020, 12:13	3.58
Junction-1	0.2627	204.7	23Dec2020, 12:13	2.94

Project: Culvert 902 Simulation Run: Proposed-100yr

Start of Run: 23Dec2020, 00:00 Basin Model: Proposed
End of Run: 24Dec2020, 00:00 Meteorologic Model: 100YR
Compute Time: 17May2023, 13:13:05 Control Specifications:Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin-1	0.1706	157.4	23Dec2020, 12:55	3.38
Reach-1	0.1706	157.1	23Dec2020, 12:59	3.37
Subbasin-2	0.0654	142.8	23Dec2020, 12:12	3.85
Subbasin-4	0.0068	21.2	23Dec2020, 12:07	4.30
Subbasin-5	0.0128	40.3	23Dec2020, 12:07	4.35
Subbasin-3	0.0071	25.0	23Dec2020, 12:07	4.87
Reach-2	0.0071	23.1	23Dec2020, 12:13	4.86
Reach-3	0.0068	21.2	23Dec2020, 12:13	4.30
Junction-1	0.2627	248.8	23Dec2020, 12:13	3.60

Section 408 Summary Report

Appendix C3

H&H Flowage Easements

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

Flowage Easement Report

HWY: Route 49 – Hwy 22 to Interstate 40
JOB: 040748
County: Crawford

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1.0 Purpose 2
2.0 Design 4
3.0 Conclusion 4

Appendix – Flowage Easement Exhibits

Arkansas River Flowage Easements
Gun Club Road Flowage Easement
Mays Branch Flowage Easement
Frog Bayou Flowage Easement

Purpose

This FEMA 6510 report presents an analysis of the flowage easements within the specified project area shown in Figure 1, in accordance with the requirements of the United States Army Corp of Engineers (USACE). The purpose of this report is to evaluate the effectiveness, compliance, and floodplain management aspects associated with the flowage easements of the Arkansas River, Gun Club Road, Mays Branch and Frog Bayou, as part of the broader floodplain management efforts. This report focuses on the flowage easements as a critical component of floodplain management and flood risk reduction measures. The flowage easement is intended to accommodate floodwaters and mitigate potential damages within the designated area, providing valuable protection to adjacent properties and promoting resilient development practices. The analysis presented herein demonstrates that the impacts to the volume of the existing flowage easements are being mitigated by excavating approximately the same volume in an adjacent area resulting in no impacts to the total volume of the flowage easements.

Figure 1: Project Location Map

Design

This section of the report outlines the design considerations for the I-49 project, specifically focusing on the integration of the interstate within the flowage easements for the Arkansas River, Gun Club Road, Mays Branch and Frog Bayou. The design has been carefully developed to ensure the preservation and functionality of the flowage easements while accommodating the construction and operation of the interstate. This section provides a detailed description of the design features and strategies that demonstrate how the project will be implemented without reducing the volume of the flowage easements.

There are three locations in the proximity of the Arkansas river where the existing flowage easement is being filled. The volume of fill being placed in the flowage easement is being offset by mitigation efforts in the form of excavation to not have any effect on the volume of existing flowage easements. In most cases the mitigation is a little more than what is required. Figures Arkansas River - 1, Arkansas River – 2, and Arkansas River – 3 in the Appendix show the flowage easement fill, mitigation quantity and design for the Arkansas River Areas.

Some portion of the flowage easement storage volume for Gun Club Road would be reduced due to widening and realignment of the Gun Club Road. This will be offset through mitigation efforts in the project design, by excavating an equal or greater volume below the flowage easement elevation. Figure Gun Club Road in the Appendix shows the flowage easement fill, mitigation quantity and design for the Gun Club Road area.

Some portion of the flowage easement storage volume for Mays Branch (I-49 STA 449+00 to STA 460+00) would be reduced due to construction of I-49. This will be offset through mitigation efforts in the project design, by excavating an equal or greater volume below the flowage easement elevation. An equalizer pipe is being added just west of Thornhill Road where the interstate will cross over a portion of the flowage easement. This will allow water to backfill through the equalizer pipe such that the portion of the flowage easement can remain. Figure Mays Branch in the Appendix shows the flowage easement fill, mitigation quantity and design for the Mays Branch area.

Some portions of the flowage easement storage volume for Frog Bayou (I-49 STA 614+00 to 641+00) would be reduced due to construction of I-49. This will be offset through mitigation efforts in the project design, by excavating an equal or greater volume below the flowage easement elevation. Channel widening adjacent to the existing flowage easement is being proposed to increase the volume, and culverts have been added to mimic the existing drainage patterns. Figure Frog Bayou in the Appendix shows the flowage easement fill, mitigation quantity and design for the Frog Bayou area.

Conclusion

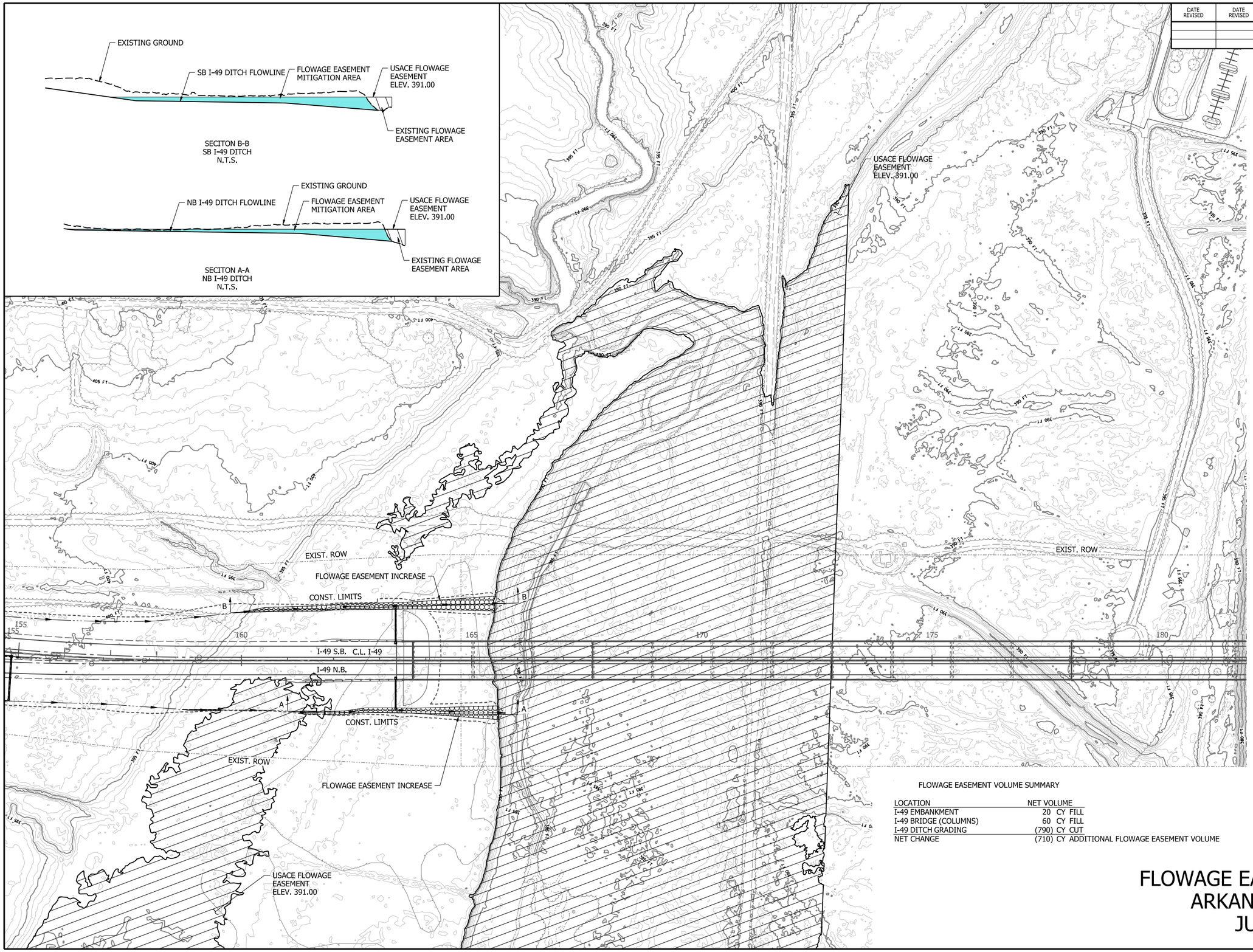
Based on the data that has been presented in this report, it can be concluded that the proposed I-49 project alignment and drainage patterns will not adversely impact the conditions of the flowage easements at the Arkansas River, Gun Club Road, Mays Branch and Frog Bayou. This repot has

demonstrated that the project will increase the volume provided in all flowage easements, and will not impair the usefulness of the easements.

APPENDIX

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	1	3
		RIVER VALLEY BRIDGE MITIGATION - EASEMENT 1				

PRELIMINARY
SUBJECT TO REVISION



0 100 200 300 400

HORIZ. SCALE IN FEET: 1"=200'

LEGEND

- EXISTING FLOWAGE EASEMENT (ELEV 391.0)
- FLOWAGE EASEMENT AREA LIMIT INCREASE
- FLOWAGE MITIGATION AREA

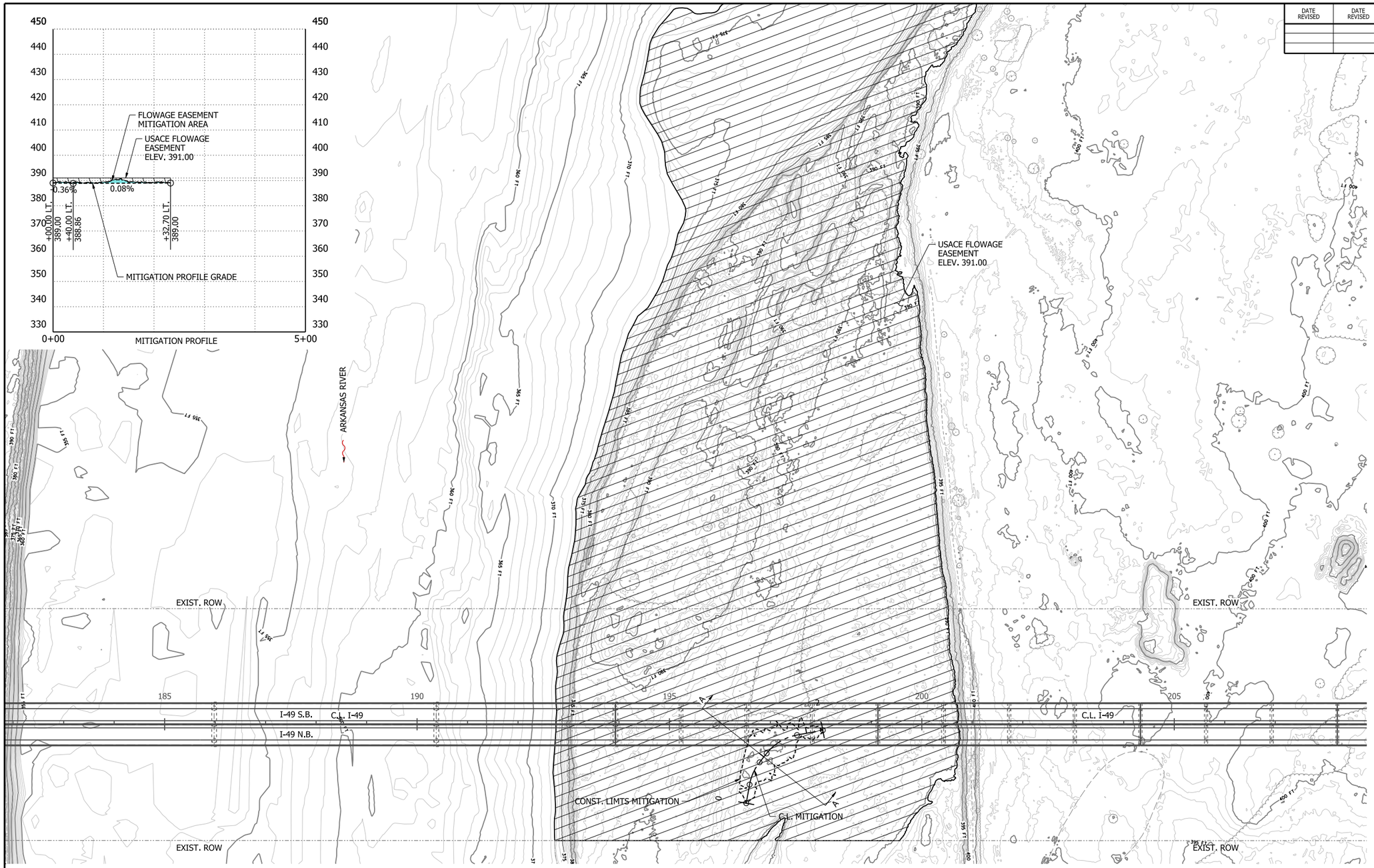
FLOWAGE EASEMENT VOLUME SUMMARY

LOCATION	NET VOLUME
I-49 EMBANKMENT	20 CY FILL
I-49 BRIDGE (COLUMNS)	60 CY FILL
I-49 DITCH GRADING	(790) CY CUT
NET CHANGE	(710) CY ADDITIONAL FLOWAGE EASEMENT VOLUME

FLOWAGE EASEMENT IMPACTS
ARKANSAS RIVER -1
JUNE 2023

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	2	3
		RIVER VALLEY BRIDGE MITIGATION - EASEMENT 2				

PRELIMINARY
SUBJECT TO REVISION



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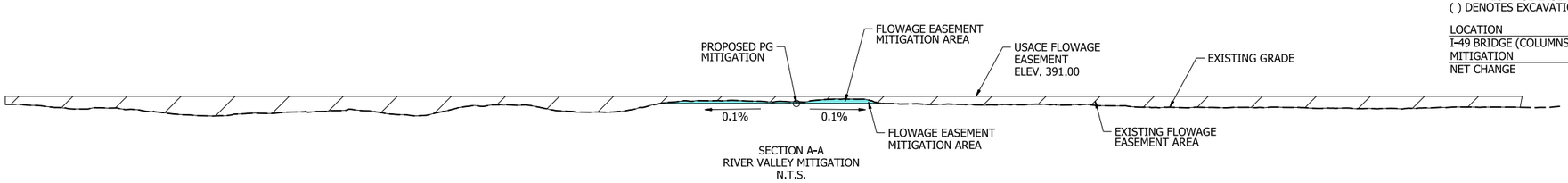
HORIZ. SCALE IN FEET: 1"=200'

LEGEND

- EXISTING FLOWAGE EASEMENT (ELEV 391.0)
- FLOWAGE MITIGATION AREA



SECTION A-A
RIVER VALLEY MITIGATION
N.T.S.

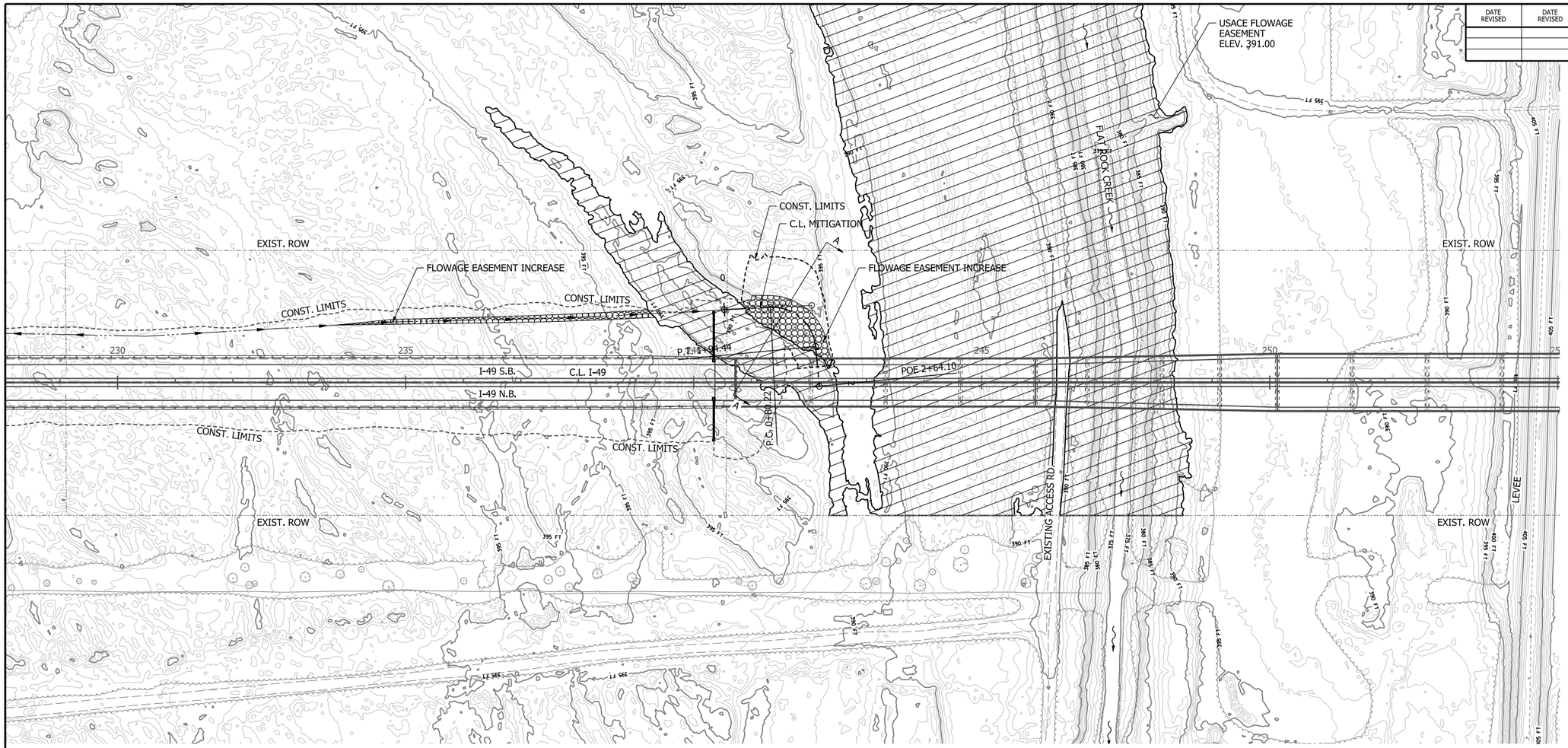
FLOWAGE EASEMENT VOLUME SUMMARY
( ) DENOTES EXCAVATION QUANTITY FOR MITIGATION

LOCATION	NET VOLUME
I-49 BRIDGE (COLUMNS)	100 CY FILL
MITIGATION	(230) CY CUT
NET CHANGE	(130) CY ADDITIONAL FLOWAGE EASEMENT VOLUME

FLOWAGE EASEMENT IMPACTS
ARKANSAS RIVER - 2
JUNE 2023

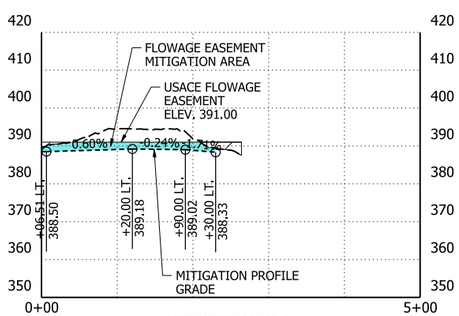
DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040901	3	3
		RIVER VALLEY BRIDGE MITIGATION - EASEMENT 3				

PRELIMINARY
SUBJECT TO REVISION



LEGEND

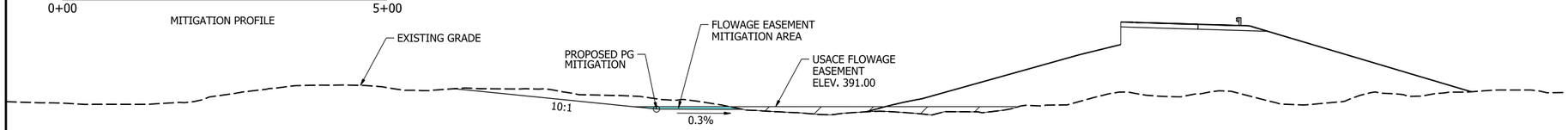
- EXISTING FLOWAGE EASEMENT (ELEV 391.0)
- FLOWAGE EASEMENT AREA LIMIT INCREASE
- FLOWAGE MITIGATION AREA



MITIGATION PROFILE

FLOWAGE EASEMENT VOLUME SUMMARY
( ) DENOTES EXCAVATION QUANTITY FOR MITIGATION

LOCATION	NET VOLUME
I-49 EMBANKMENT	570.00 CY FILL
I-49 BRIDGE (COLUMNS)	60.00 CY FILL
MITIGATION	(690.00) CY CUT
NET CHANGE	(60.00) CY ADDITIONAL FLOWAGE EASEMENT VOLUME



SECTION A-A
RIVER VALLEY MITIGATION
N.T.S.

FLOWAGE EASEMENT IMPACTS
ARKANSAS RIVER - 3
JUNE 2023

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902	1	1
		GUN CLUB FLOWAGE EASEMENT				

PRELIMINARY
SUBJECT TO REVISION

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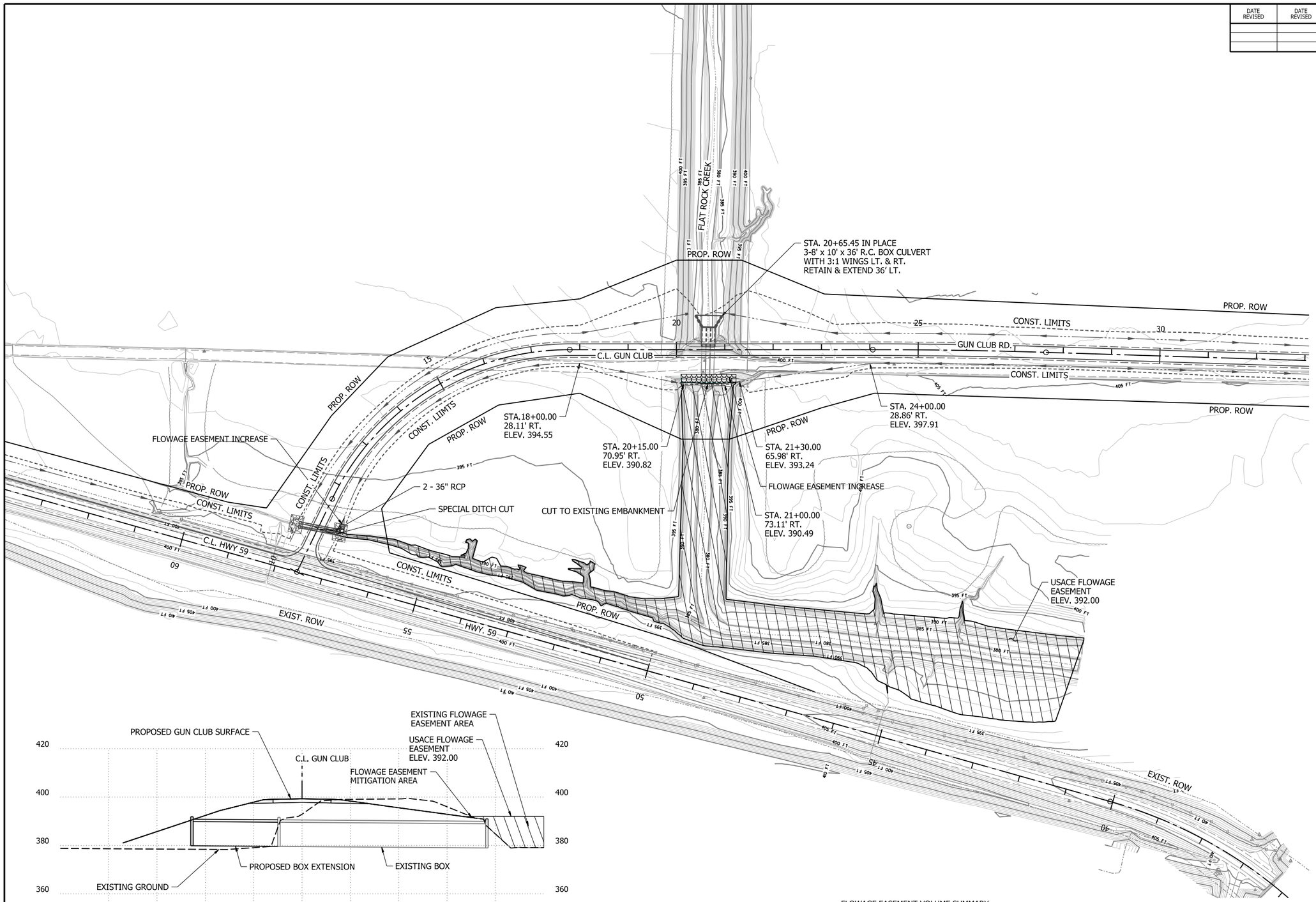
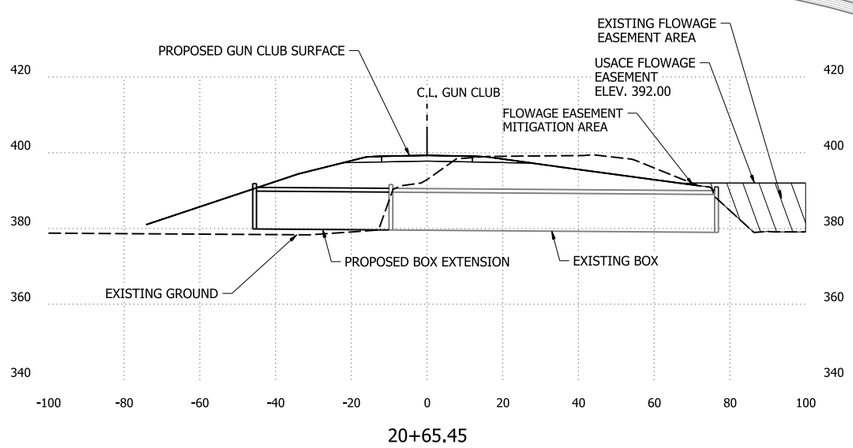
HORIZ. SCALE IN FEET: 1"=200'



LEGEND

- EXISTING FLOWAGE EASEMENT (ELEV 392.0)
- FLOWAGE EASEMENT AREA LIMIT INCREASE
- FLOWAGE MITIGATION AREA



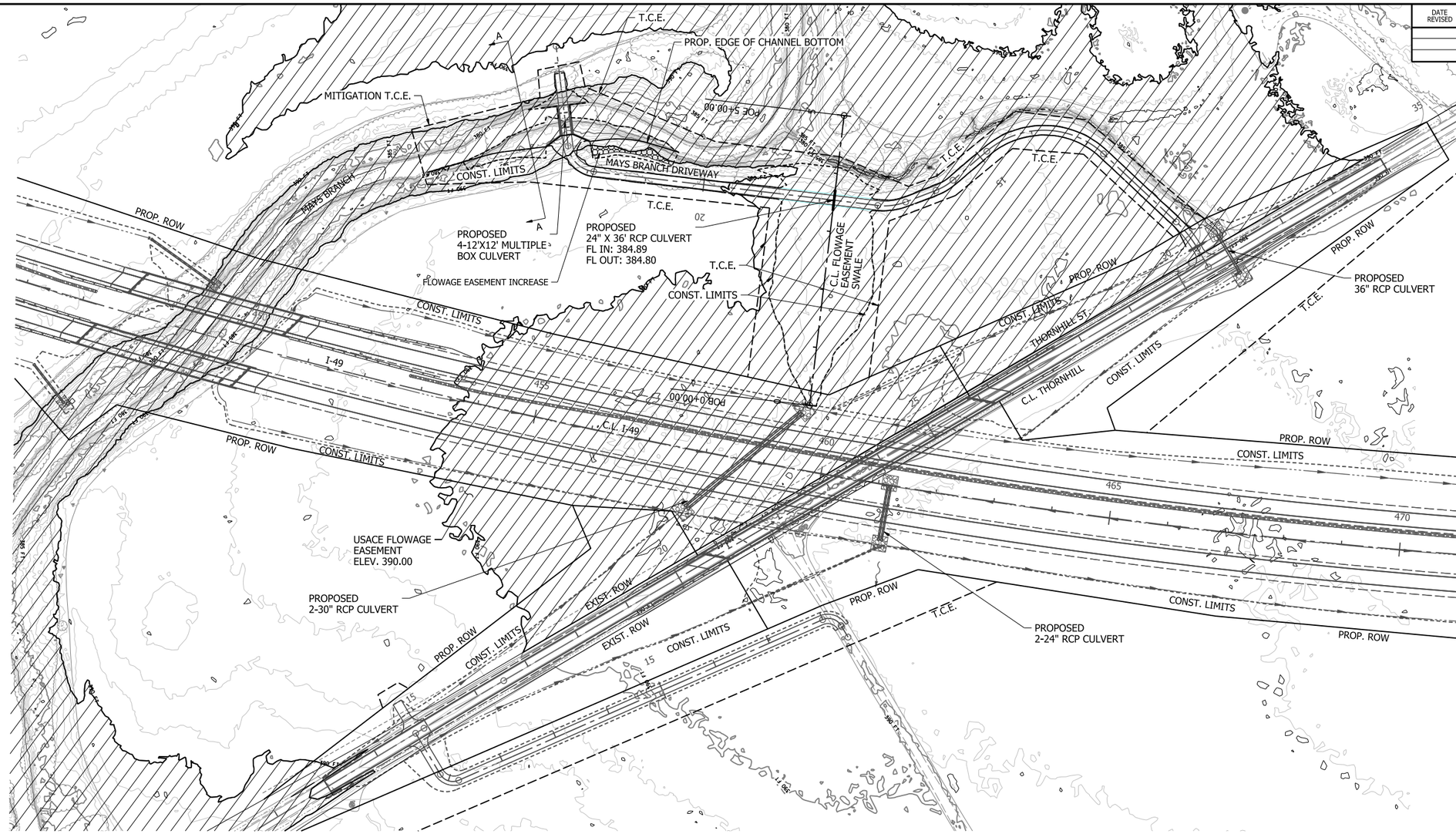
FLOWAGE EASEMENT VOLUME SUMMARY
( ) DENOTES EXCAVATION QUANTITY FOR MITIGATION

LOCATION	NET VOLUME
GUN CLUB ROAD CUT	(5,00) CY CUT
GUN CLUB ROAD FILL	2,00 CY FILL
NET CHANGE	(3.00) CY ADDITIONAL FLOWAGE EASEMENT VOLUME

FLOWAGE EASEMENT IMPACTS
GUN CLUB ROAD
JUNE 2023

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040902		

PRELIMINARY
SUBJECT TO REVISION



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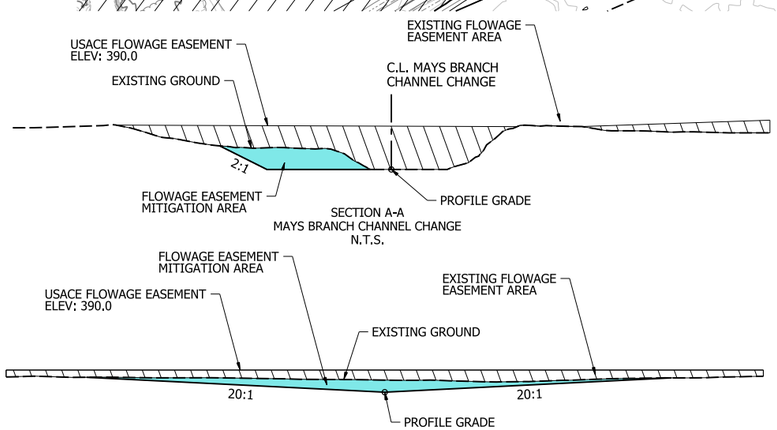
HORIZ. SCALE IN FEET: 1"=200'

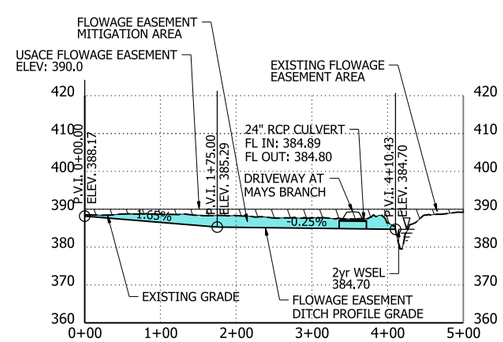
0 20 40 60 80
VERT. SCALE IN FEET: 1"=40'

LEGEND

- EXISTING FLOWAGE EASEMENT (ELEV 390.0)
- FLOWAGE EASEMENT AREA LIMIT INCREASE
- FLOWAGE MITIGATION AREA



TYPICAL SECTION
FLOWAGE EASEMENT SWALE



FLOWAGE EASEMENT DITCH AT MAYS BRANCH

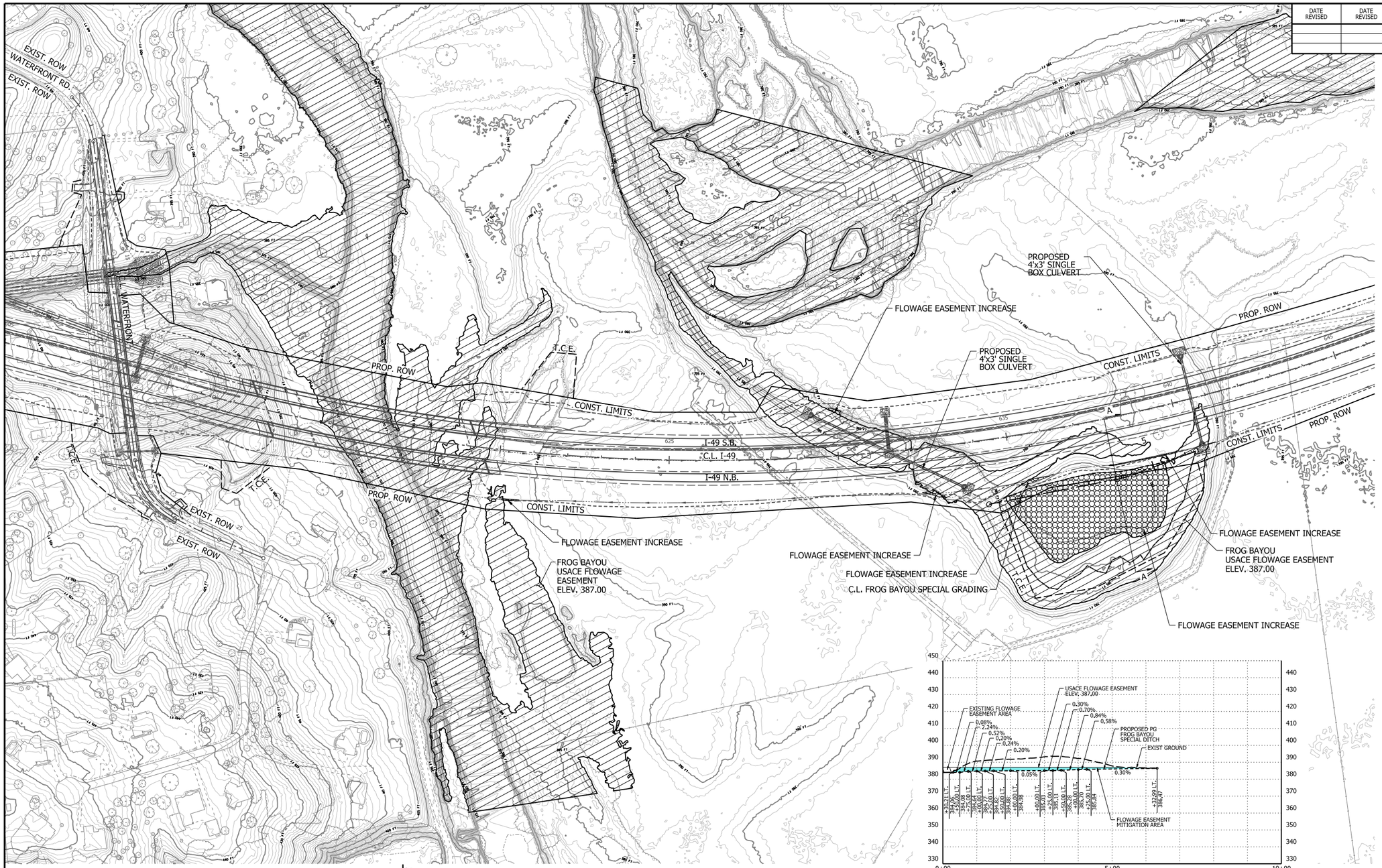
FLOWAGE EASEMENT VOLUME SUMMARY
( ) DENOTES EXCAVATION QUANTITY FOR MITIGATION

LOCATION	NET VOLUME
I-49	3,740 CY FILL
THORNHILL - SOUTH OF BRIDGE	390 CY FILL
THORNHILL - NORTH OF BRIDGE	(50) CY CUT
MAYS BRANCH DRIVEWAY	160 CY FILL
MAYS BRANCH CHANNEL CHANGE	(1,960) CY CUT
I-49 BRIDGE OVER MAYS BRANCH	10 CY FILL
FLOWAGE EASEMENT SWALE	(2,500) CY CUT
NET CHANGE	(210) CY ADDITIONAL FLOWAGE EASEMENT VOLUME

FLOWAGE EASEMENT IMPACTS
MAYS BRANCH
JUNE 2023

DATE REVISED	DATE REVISED	FED.RD. DIST.NO.	STATE	JOB NO.	SHEET NO.	TOTAL SHEETS
		6	ARK.	040903	1	1
		FROG BAYOU FLOWAGE EASEMENT				

PRELIMINARY
SUBJECT TO REVISION



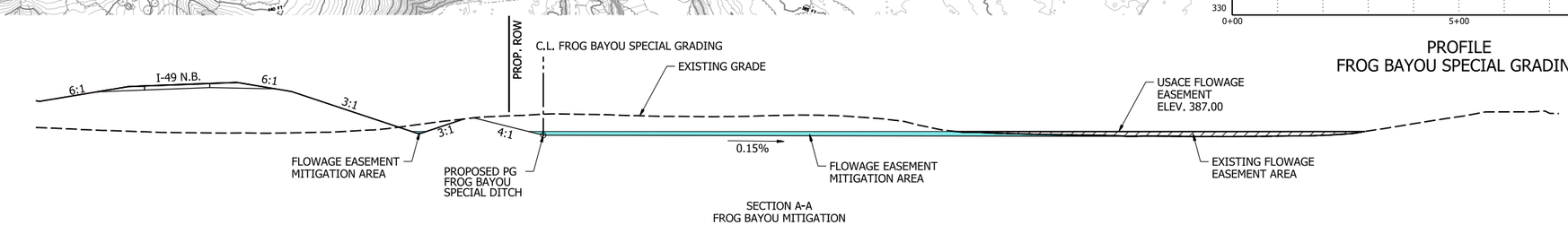
0 150 300 450 600

HORIZ. SCALE IN FEET: 1"=300'

LEGEND

- EXISTING FLOWAGE EASEMENT (ELEV 387.0)
- FLOWAGE EASEMENT AREA LIMIT INCREASE
- FLOWAGE EASEMENT MITIGATION AREA

PROFILE
FROG BAYOU SPECIAL GRADING



SECTION A-A
FROG BAYOU MITIGATION
N.T.S.

FLOWAGE EASEMENT VOLUME SUMMARY
( ) DENOTES EXCAVATION QUANTITY FOR MITIGATION

LOCATION	NET VOLUME
I-49	5,810 CY FILL
WATERFRONT	50 CY FILL
I-49 BRIDGE OVER FROG BAYOU	80 CY FILL
FROG BAYOU SPECIAL GRADING	(6,180) CY CUT
NET CHANGE	(240) CY ADDITIONAL FLOWAGE EASEMENT VOLUME

FLOWAGE EASEMENT IMPACTS
FROG BAYOU
JUNE 2023

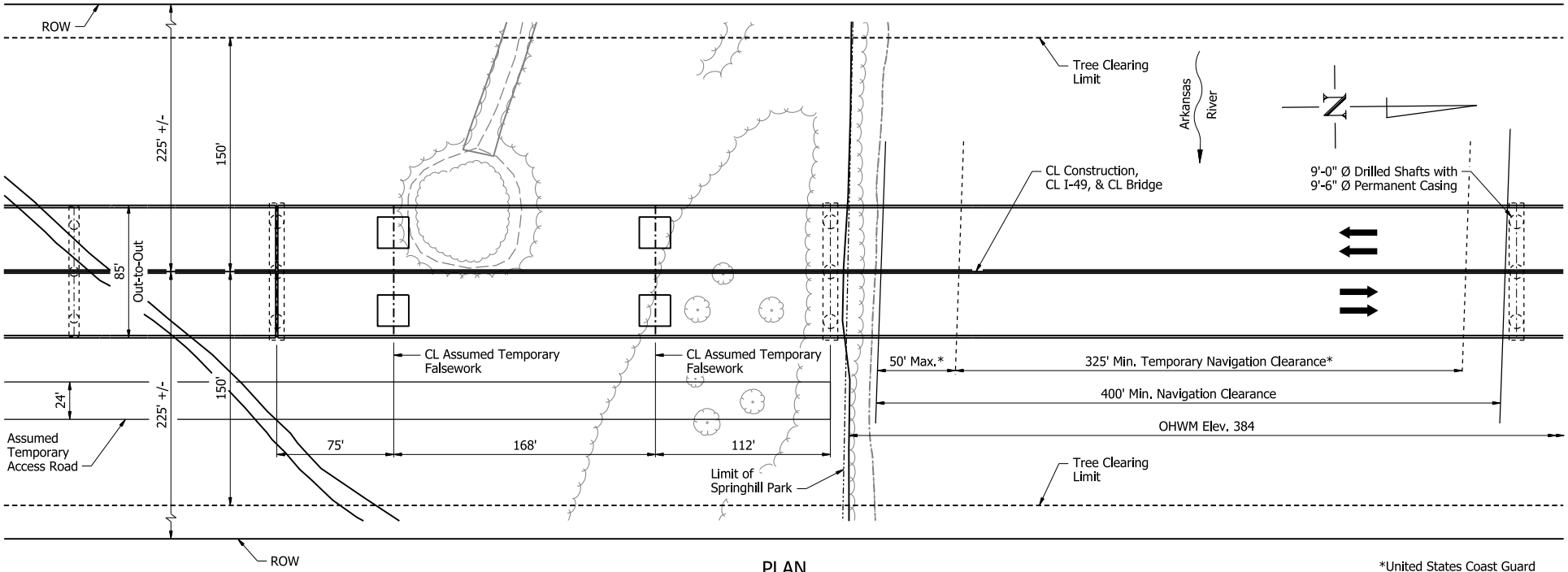
Section 408 Summary Report

Appendix D

Potential Temporary Construction Details

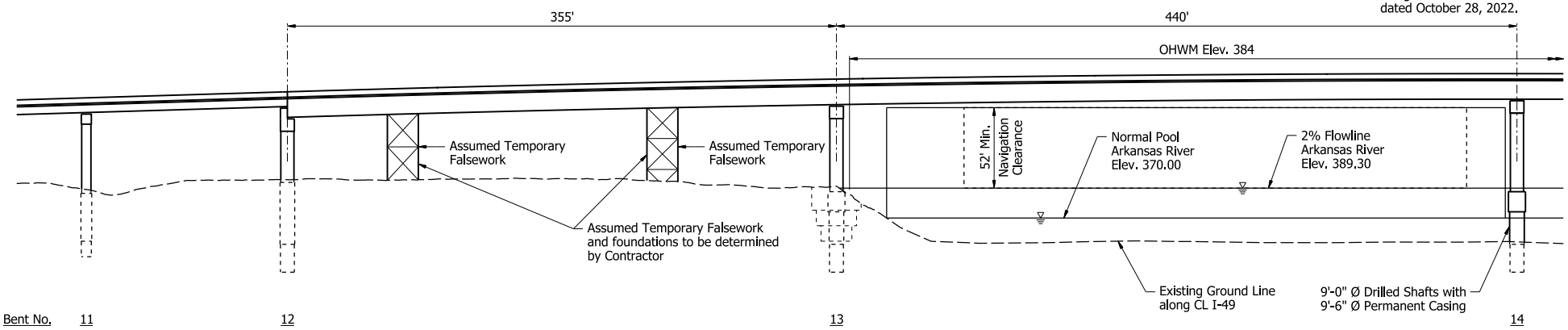
ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB



PLAN

*United States Coast Guard has provided reduced temporary navigation clearances. See letter dated October 28, 2022.



ELEVATION

100 50 0 100
SCALE IN FEET

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

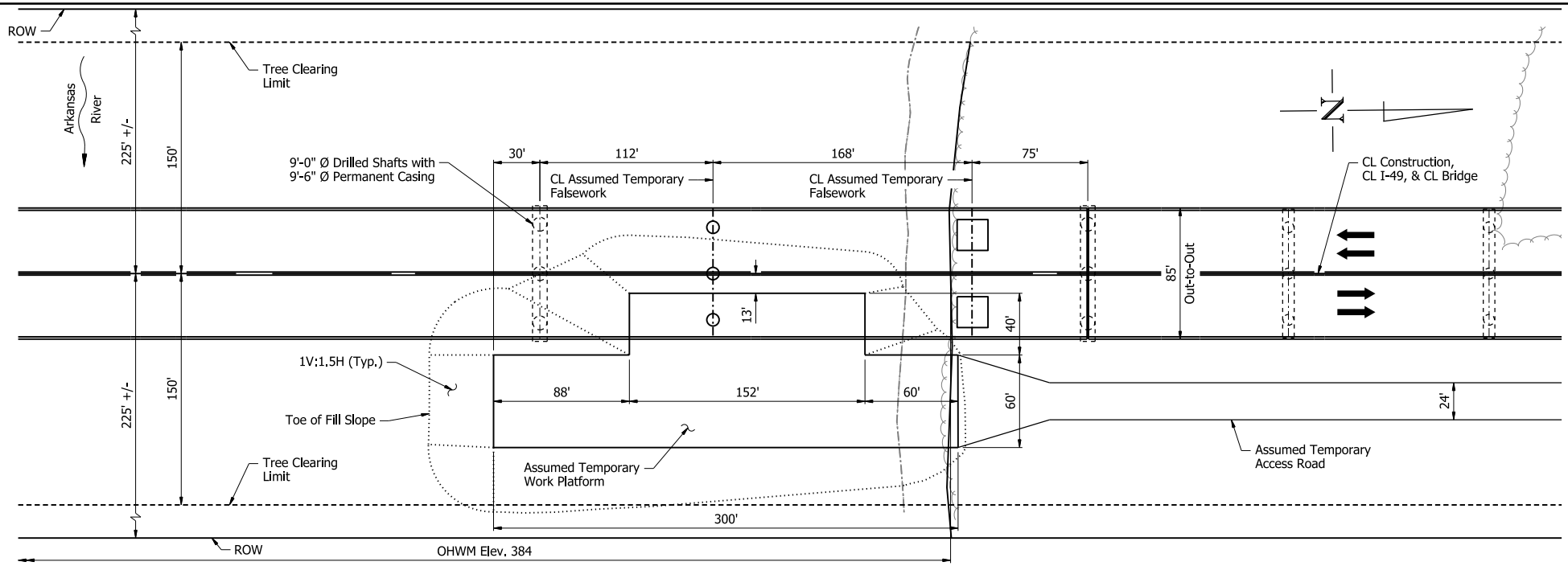
HNTB

PROPOSED BRIDGE 1
INTERSTATE 49 OVER ARKANSAS RIVER,
NEAR BARLING, ARKANSAS (CRAWFORD & SEBASTIAN COUNTIES)
ARKANSAS DEPARTMENT OF TRANSPORTATION

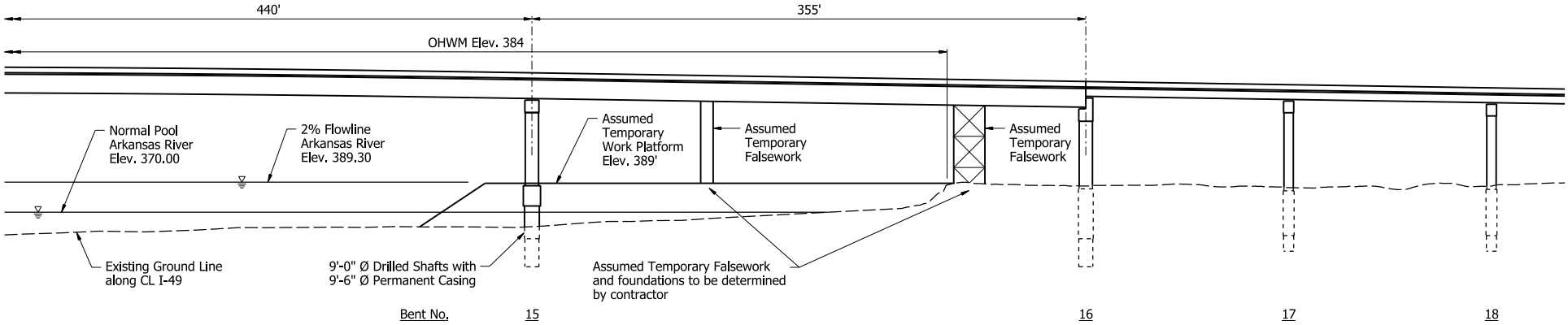
SHEET 1 OF 2

JUNE 2023

PRINT DATE: 7/10/2023



PLAN



ELEVATION

100 50 0 100
SCALE IN FEET

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

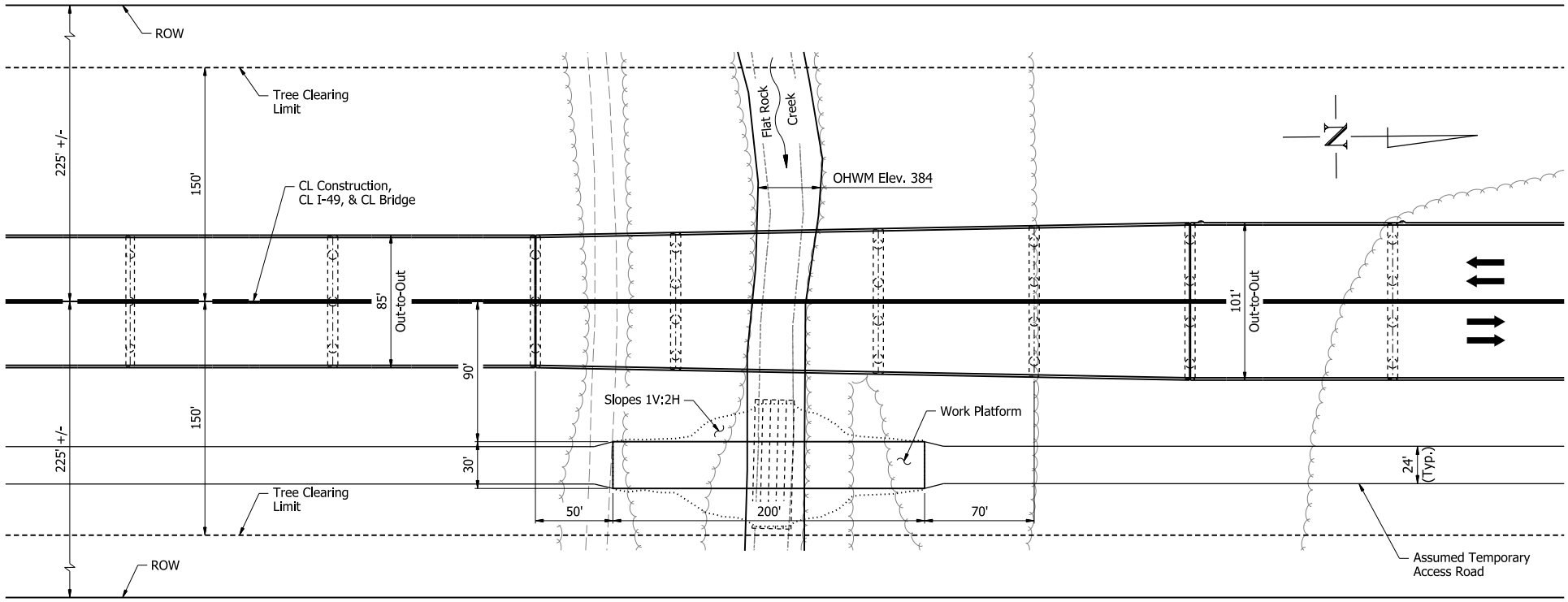
HNTB

PROPOSED BRIDGE 1
INTERSTATE 49 OVER ARKANSAS RIVER,
NEAR BARLING, ARKANSAS (CRAWFORD & SEBASTIAN COUNTIES)
ARKANSAS DEPARTMENT OF TRANSPORTATION

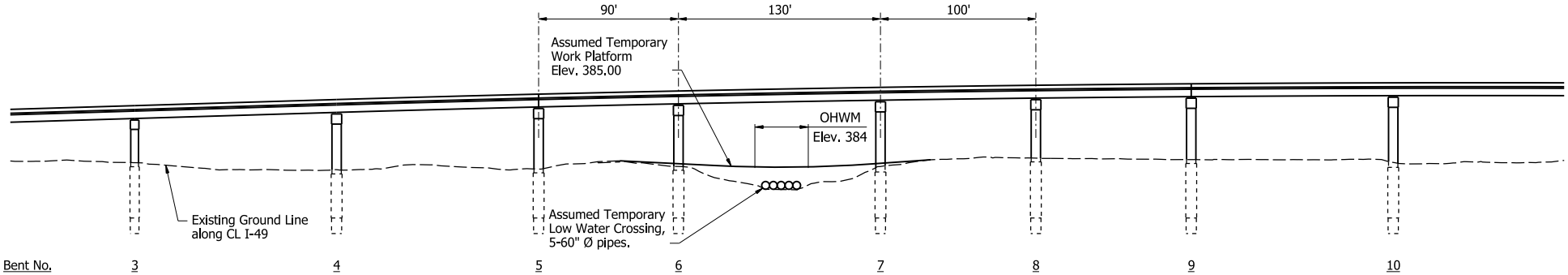
SHEET 1 OF 1

JUNE 2023

PRINT DATE: 6/13/2023



PLAN



ELEVATION

100 50 0 100
SCALE IN FEET

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

HNTB

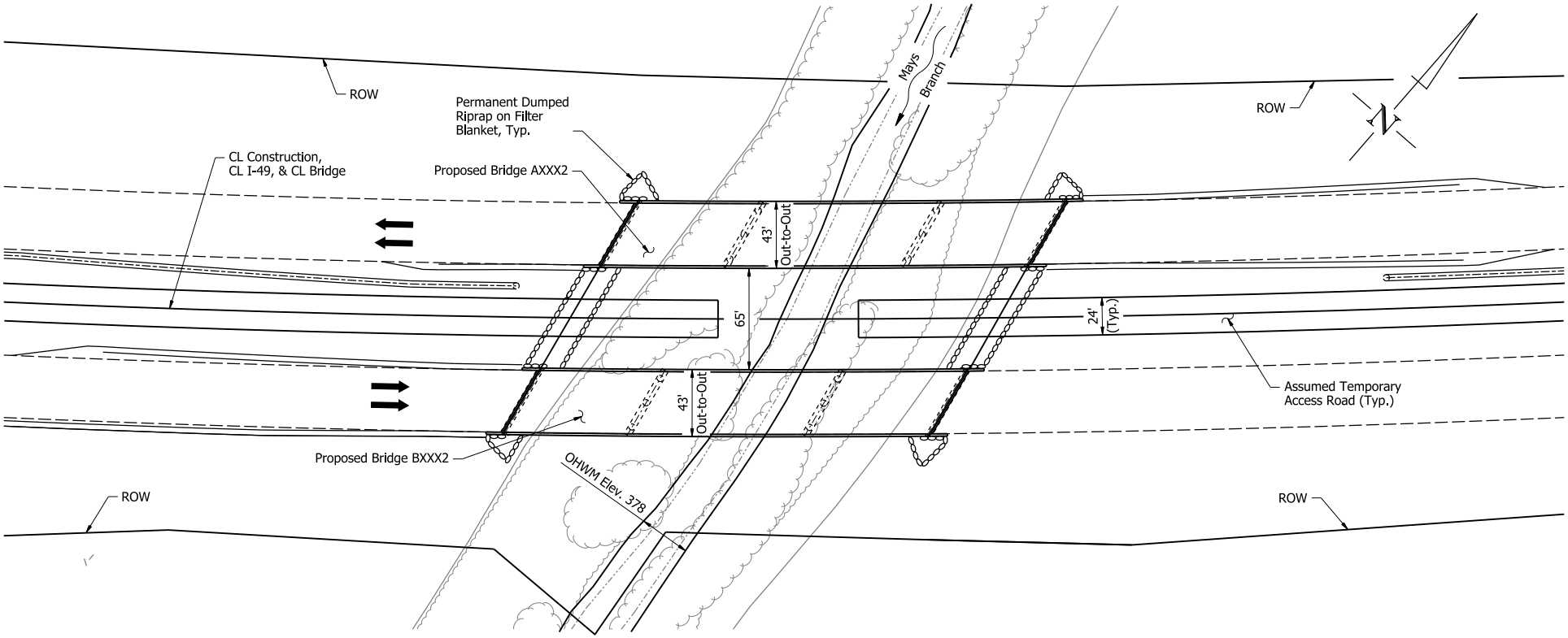
PROPOSED BRIDGE 16
INTERSTATE 49 OVER ARKANSAS RIVER
NEAR BARLING, ARKANSAS (CRAWFORD COUNTY)

ARKANSAS DEPARTMENT OF TRANSPORTATION

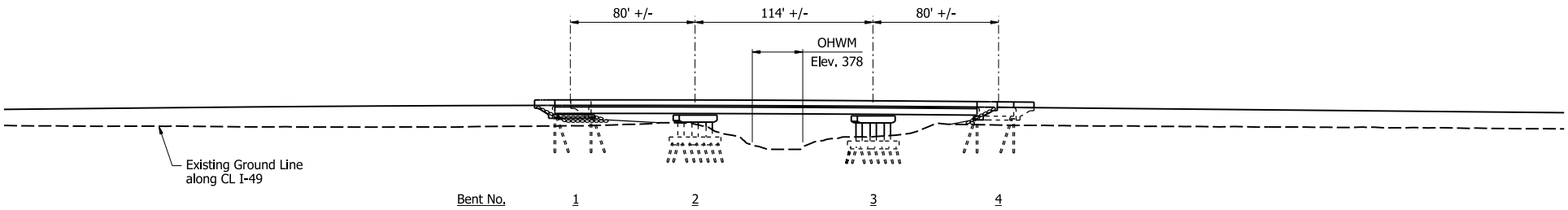
SHEET 1 OF 1

JUNE 2023

PRINT DATE: 6/15/2023



PLAN



ELEVATION

Note:
No planned impacts within the Ordinary High Water Mark.

100 50 0 100
SCALE IN FEET

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

HNTB

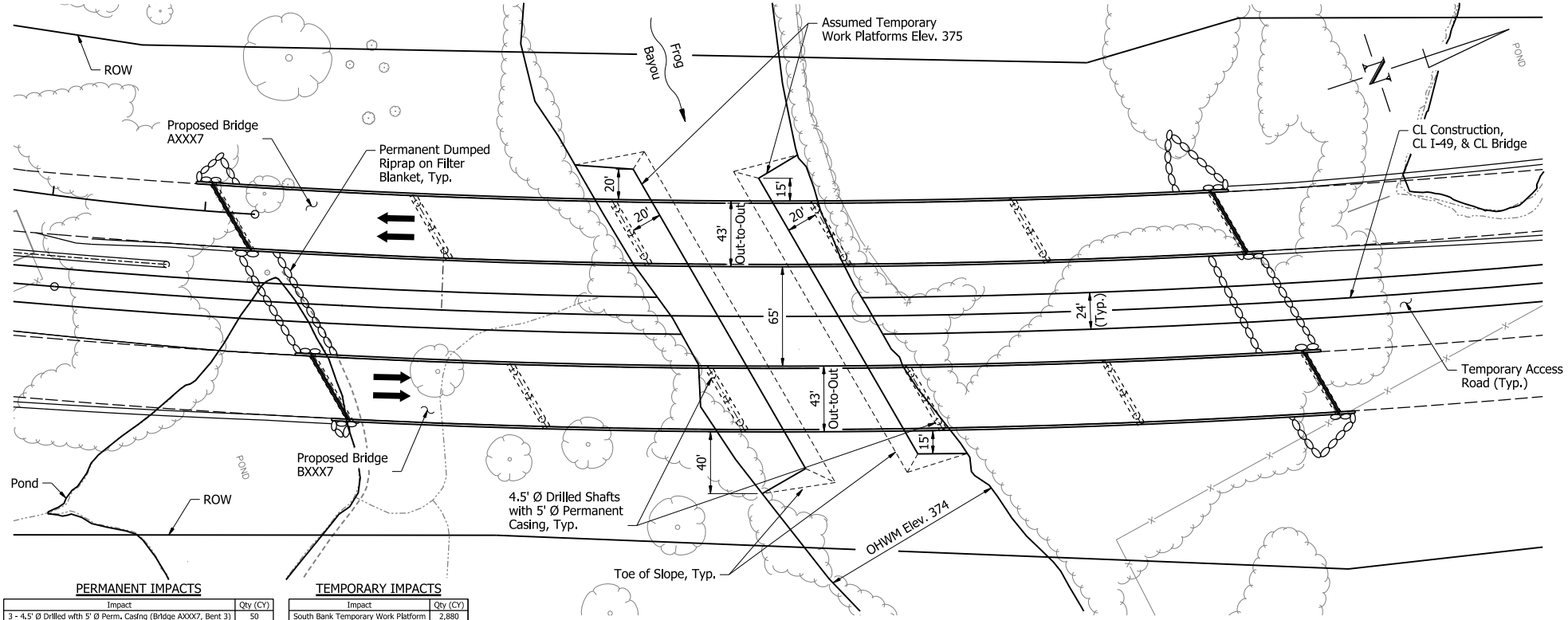
PRINT DATE: 6/15/2023

PROPOSED BRIDGES 2A & 2B
INTERSTATE 49 OVER MAYS BRANCH
NEAR BARLING, ARKANSAS (CRAWFORD COUNTY)

ARKANSAS DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 1

JUNE 2023



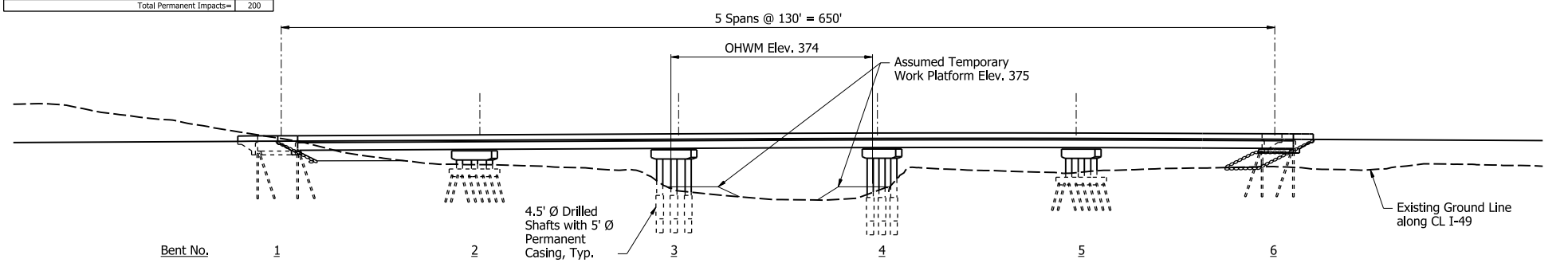
PLAN

PERMANENT IMPACTS

Impact	Qty (CY)
3 - 4.5' Ø Drilled with 5' Ø Perm. Casing (Bridge AXXX7, Bent 3)	50
3 - 4.5' Ø Drilled with 5' Ø Perm. Casing (Bridge AXXX7, Bent 4)	50
3 - 4.5' Ø Drilled with 5' Ø Perm. Casing (Bridge BXXX7, Bent 3)	50
3 - 4.5' Ø Drilled with 5' Ø Perm. Casing (Bridge BXXX7, Bent 4)	50
Total Permanent Impacts=	200

TEMPORARY IMPACTS

Impact	Qty (CY)
South Bank Temporary Work Platform	2,880
North Bank Temporary Work Platform	2,220
Total Temporary Impacts=	5,100



ELEVATION

100 50 0 100
SCALE IN FEET

PRELIMINARY
NOT FOR CONSTRUCTION

BRIDGE ENGINEER

HNTB

PROPOSED BRIDGES 7A & 7B
INTERSTATE 49 OVER FROG BAYOU
NEAR BARLING, ARKANSAS (CRAWFORD COUNTY)

ARKANSAS DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 1

JUNE 2023

PRINT DATE: 6/15/2023

Section 408 Summary Report

Appendix E

Section 408 NEPA Compliance

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

Section 408 NEPA Compliance

Interstate 49 from Highway 22 to Interstate 40

Crawford and Sebastian Counties, Arkansas

July 2023
Job 040748

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

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APPENDICES

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Chapter 1 – Introduction

1.1 Background

The Arkansas Department of Transportation (ARDOT) is submitting the proposed project, a new location Interstate 49 bridge crossing the Arkansas River and associated 100-year floodplain and flowage easements, as a Section 408 request for the National Environmental Policy Act (NEPA) compliance under the U.S. Army Corps of Engineers (USACE) *Policy and Procedural Guidance for Processing Requests to Alter U.S. Army Corps of Engineers Civil Works Projects Pursuant to 33 USC 408*, dated September 10, 2018.

The new location crossings over the Arkansas River and associated 100-year floodplain and flowage easements were originally part of a larger environmental study known as the U.S. 71 Relocation DeQueen to Interstate 40, ARDOT Job 001747. That study extended from Highway 70 in DeQueen, Arkansas to Interstate 40 near Alma, Arkansas, a distance of approximately 125 miles. A Final Environmental Impact Statement (FEIS) was prepared for the U.S. 71 Relocation Project and a Record of Decision (ROD) was issued in December 1997 approving the general alignment of a new location, four-lane highway in western Arkansas. The 1997 FEIS project limits, ARDOT Job 001747, are shown in **Figure 1-1**.

As a priority project for ARDOT, a re-evaluation was initiated for an approximate 14-mile section of Interstate 49 from Highway 22 in Sebastian County to Interstate 40 in Crawford County, with funding allocated in the current Statewide Transportation Improvement Program (STIP). The re-evaluation study limits, ARDOT Job 040748, are shown in **Figure 1-1**. The re-evaluation discusses design refinements and environmental analyses of impacts and benefits of the preliminary design to determine whether any additional NEPA documentation is warranted or if the previous findings described in the ROD remain valid. The re-evaluation describes the proposed project, purpose and need, environmental impacts, commitments, and public involvement.

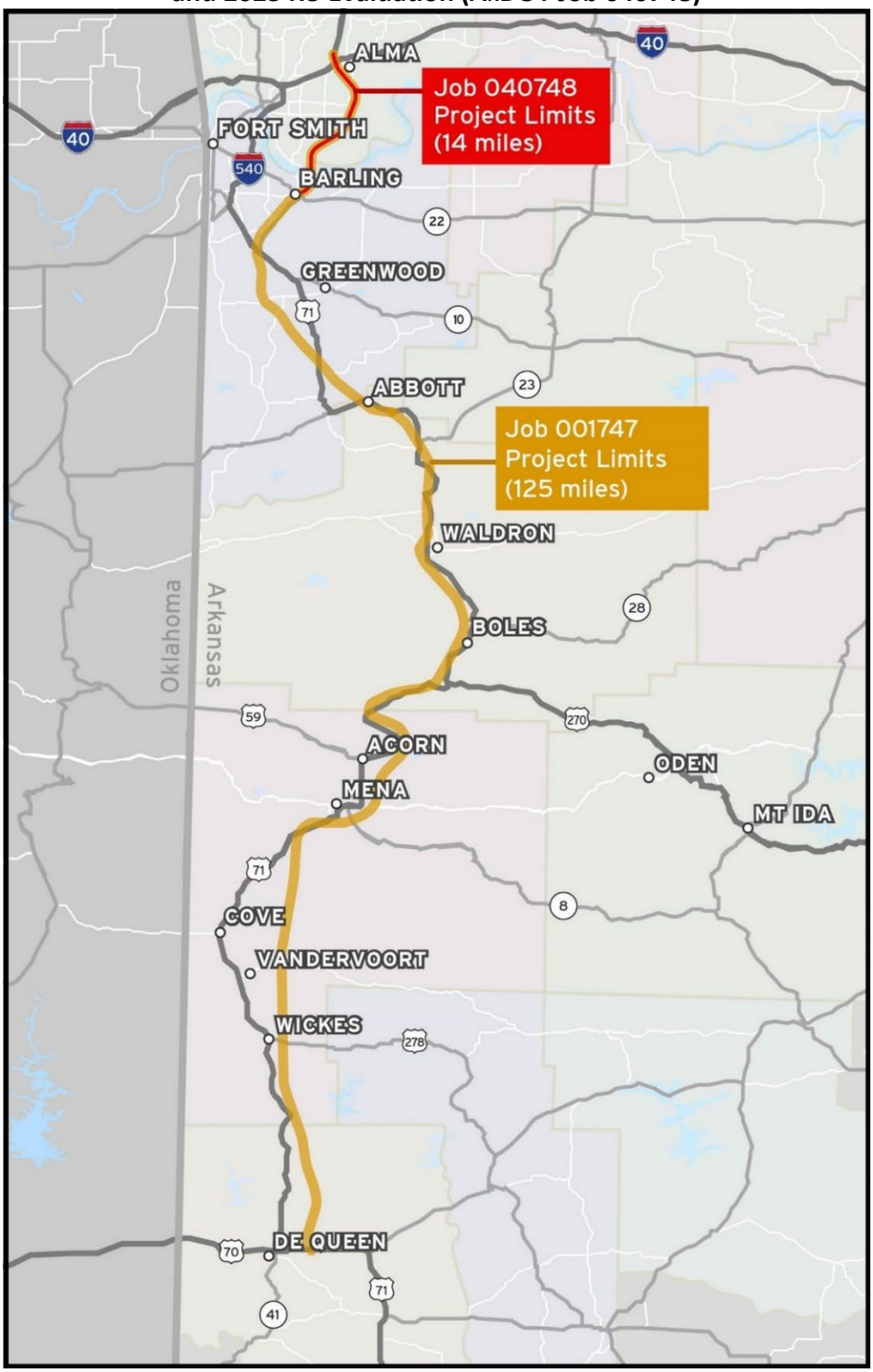
The re-evaluation was prepared in accordance with NEPA, and all other applicable Federal and state laws and regulations, specifically 23 Code of Federal Regulations (CFR) § 771.129. ARDOT is required to complete a re-evaluation to update the analysis in prior NEPA documents when there are changes to the project which could affect the previous determination of potential environmental impacts.[1] In a letter dated July 22, 2021 and included in **Appendix A**, the USACE agreed to serve as a cooperating agency for re-evaluation of the FEIS as defined in 40 CFR § 1501.8.

In accordance with 33 U.S. Code (USC) Section 408, any alteration of a USACE Public Works project will require USACE review and approval to ensure that the alteration does not adversely impact the USACE Public Works. Furthermore, 33 CFR § 230, Procedures for Implementing NEPA (Engineering Regulation 200-2-2), stipulates that a NEPA document must be prepared to address the impacts to the environment as a result of the Federal action. All requests for alterations to a

[1] 23 CFR § 771.129(c)

USACE Public Works project are submitted by the non-Federal sponsor.

Figure 1-1: Project Limits for 1997 FEIS (ArDOT Job 001747) and 2023 Re-Evaluation (ArDOT Job 040748)



Sources: FEIS U.S. 71 Relocation Dequeen to Interstate 40, 1997; NEPA Re-evaluation U.S. 71 Relocation DeQueen to Interstate 40, 2023; Project Team, 2023

1.2 Purpose and Need

The purpose and need of the project are the same as presented in the 1997 FEIS. The purpose of this project is to improve system linkage for a north/south national interstate corridor, accommodate safe travel, and improve modal connectivity.

The proposed project is needed to complete a vital section of the larger Interstate 49 national interstate corridor which is Congressionally designated as High Priority Corridor 1. The proposed project is needed to provide linkage and modal connectivity to the surrounding interstate highway system. This includes links to both the surrounding Interstate 49 corridor sections already completed and a critical link to Interstate 40, resulting in increased mobility through the region and enhanced modal connectivity.

The proposed project is also needed to address safety issues associated with increasing volumes of vehicular traffic in northwest Arkansas. The proposed project would provide an alternate route around Fort Smith, Arkansas, for those traveling north/south through the area. Traffic diverted to the new interstate would experience less congestion than it would in the No Action condition using the existing transportation network, and existing facilities that traffic is diverted from, including Interstate 40 between Interstate 540 and Interstate 49, would also experience less congestion. For example, several segments on Interstate 40 are expected to operate at LOS E and F in 2045, particularly westbound during the AM peak period[2]. Likewise, Interstate 540 experiences recuring congestion during peak travel times. Vehicles traveling through Fort Smith could avoid this congestion by using the proposed Interstate 49 facility. It is anticipated that the improved operations resulting from the diversion would reduce the amount of rear end crashes, which accounted for 22% of all crashes in the study area (2015-2019). Additionally, the proposed project, including the new bridge over the Arkansas River, would be constructed to meet the latest design standards and would be a safer facility than the existing three river crossings, which all have shoulders narrower than current design standards. The Arkansas River crossing closest to the proposed project on Highway 59 is a two-lane, undivided highway with reduced shoulders. This type of facility had a statewide average KA crash rate approximately three times greater than the facility type proposed at the new river crossing, which for 2015 – 2019 was 3.38 per 100 million vehicle miles traveled. Overall, the new facility and river crossing would provide safer conditions for the traveling public.

1.3 Study Area

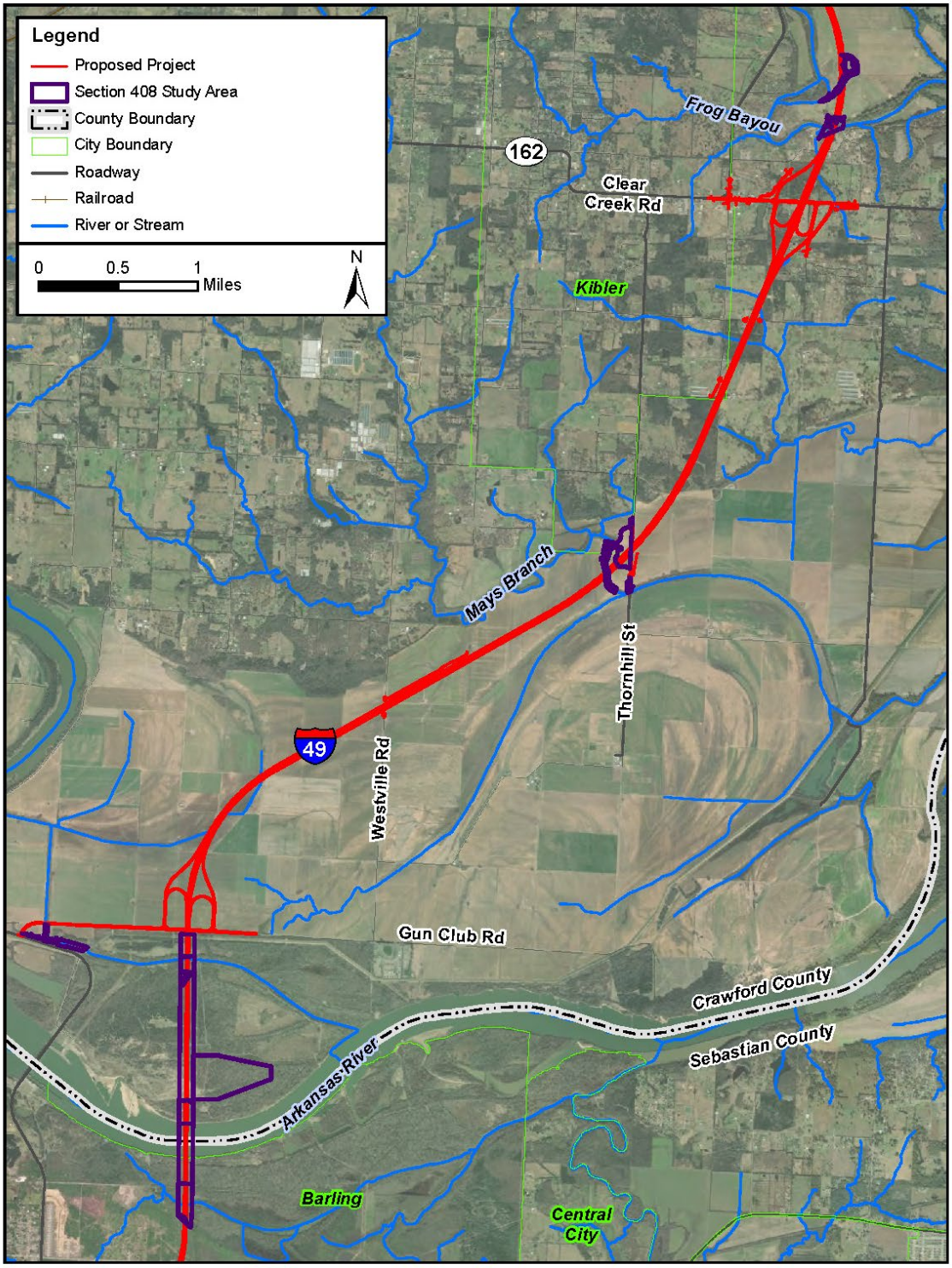
The proposed project would involve a new location interstate spanning from Highway 22 to Interstate 40, which was the study area for the re-evaluation. The Section 408 study area includes only the portions of the project crossing the Arkansas River and associated 100-year floodplain and flowage easements associated with the Arkansas River, Gun Club Road, Mays Branch, and Frog Bayou. The bridge structure over the Arkansas River and associated 100-year floodplain is approximately 7,050 feet long. The proposed Section 408 study area is shown in **Figure 1-2**.

A project footprint was utilized for assessing impacts to environmental resources. The project

[2] Source: Interstate 49 Interchange Justification Report, October 2022.

footprint includes the preliminary design and proposed right of way. It encompasses all anticipated direct impact areas for the proposed project.

Figure 1-2: Section 408 Study Area



Source: Project Team, 2023

Chapter 2 – Description of Alternatives

2.1 No Action

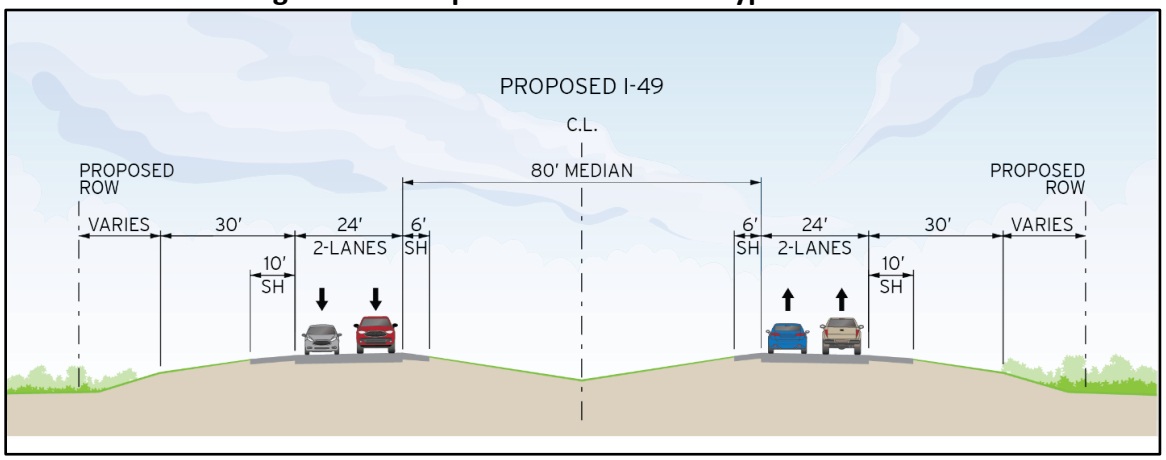
The No Action alternative would maintain the status quo. The proposed improvements would not occur. Under this alternative, there would be no bridge construction across the Arkansas River and its associated floodplain, nor any construction across the flowage easements. This alternative would not meet the purpose and need of the project.

2.2 Requester's Preferred Alternative

The proposed project generally follows the Selected Alignment identified in the 1997 FEIS. The roadway and bridge designs have continued to advance to a greater level of detail for this segment of Interstate 49 since the 1997 FEIS and an Alternative Delivery Study conducted in 2018. The preliminary design includes refined roadway and bridge typical sections and interchange types and locations have been determined.

As shown in **Figure 2-1**, the proposed typical section would consist of four 12-foot wide main lanes (two in each direction), an approximately 80-foot wide median between the inside edges of travel lanes, and 6-foot wide inside and 10-foot wide outside shoulders. The overall right of way width would vary to a maximum width of approximately 300 feet, except at interchanges where the right of way width would be greater. The design speed for the main lanes is 70 miles per hour.

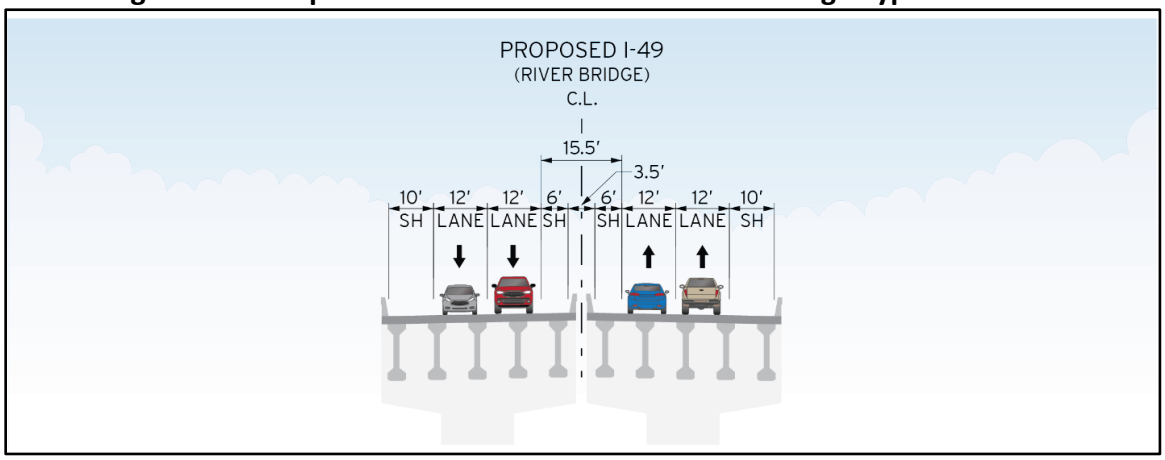
Figure 2-1: Proposed Interstate 49 Typical Section



Source: Project Team, 2022

A new bridge is proposed to be constructed over the Arkansas River, which was included in the 1997 FEIS**.** The proposed typical section would consist of four 12-foot wide main lanes (two in each direction), with 6-foot wide inside and 10-foot wide outside shoulders, as shown in **Figure 2-2**.

Figure 2-2: Proposed Intestate 49 Arkansas River Bridge Typical Section



Source: Project Team, 2022

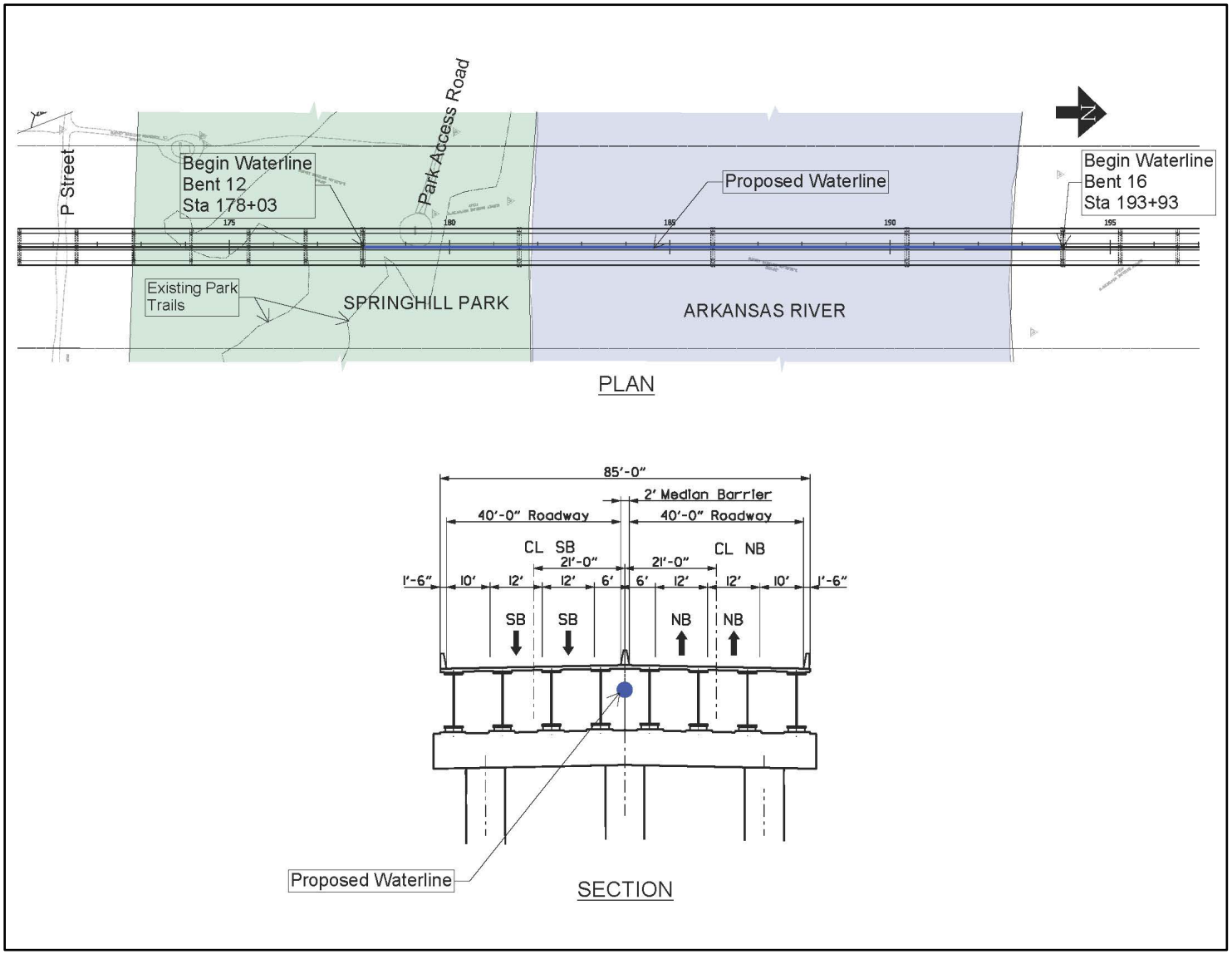
At Interstate 40, a fully directional interchange with direct connect ramps is proposed. The interchange proposed at Interstate 40 was included in the 1997 FEIS. Interchanges with slip/loop ramps are proposed at Highway 22, Gun Club Road, and Clear Creek Road. Proposed grade-separated intersections without ramps, are proposed at P Street, Westville Road, Thornhill Street, Waterfront Road, Highway 162 (Henry Street), Union Pacific Railroad, and Highway 64 to maintain local access. **Figure 2-3** shows the locations of these proposed interchanges and intersections.

Figure 2-3: Proposed Action Alternative with Intersection Locations

Source: NEPA Re-evaluation U.S. 71 Relocation DeQueen to Interstate 40, 2023

In addition, a 36-inch waterline will be constructed on the Arkansas River Bridge for future use by the City of Fort Smith. As shown in **Figure 2-4**, the waterline will extend approximately 1,600 feet and will be located within the bridge superstructure, between the girders. The decision to include a waterline on the Arkansas River Bridge was subsequent to the 1997 FEIS and done per the request of the City of Fort Smith.

Figure 2-4: Proposed Waterline on the Arkansas River Bridge



Source: Project Team, 2022

Chapter 3 - Environmental Impacts

3.1 Community Resources

Environmental Justice

Executive Order (EO) 12898 entitled "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations" mandates that federal agencies identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of its programs on minority and low-income populations.

Minority

The Federal Highway Administration (FHWA) Order 6640.23A defines a minority as a person who is Black (having origins in any of the Black racial groups of Africa); Hispanic (of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race); Asian American (having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands); or American Indian and Alaska Native (having origins in any of the original people of North America and who maintains cultural identification through tribal affiliation or community recognition). Minority populations include populations where the percentage of minority persons approaches or exceeds 50% of a census block population.

Low-Income

Following the Office of Management and Budget's (OMB) Statistical Policy Directive 14, the Census Bureau uses a set of money income thresholds that vary by family size and composition to determine who is in poverty. If a family's total income is less than the family's threshold, then that family and every individual in it is considered in poverty (low-income). Per the U.S. Department of Health and Human Services (HHS), the 2022 poverty threshold for a family of four is $27,750.

Limited English Proficiency

Limited English Proficiency (LEP) persons are defined as individuals who speak English less than "very well." EO 13166, "Improving Access to Services for Persons with Limited English Proficiency" requires federal agencies to examine the services they provide and identify any need for services to those with LEP. The EO requires federal agencies to work to ensure that recipients of federal financial assistance provide meaningful access to their LEP applicants and beneficiaries. Failure to ensure that LEP persons can effectively participate in or benefit from federally assisted programs and activities may violate the prohibition under Title VI of the Civil Rights Restoration Act of 1987 and Title VI regulations against national origin discrimination. LEP populations are those greater than 5%, or the Safe Harbor LEP Threshold[3], for each Census block group.

[3] This threshold identifies actions that will be considered strong evidence of compliance with Title VI of the Civil Rights Act obligations. Safe Harbor requires written translations of vital documents for each LEP group that meets the threshold.

3.1.1 No Action

No impacts to minorities, low-income, or LEP populations would occur from the No Action alternative.

3.1.2 Requester's Preferred Alternative

The Section 408 study area includes three Census blocks reporting a minority population equal to or greater than 50 percent of the total population. As shown in **Table 3-1**, the total population in each of these blocks is 10 persons or less.

Table 3-1: Minority Block Groups within the Section 408 Study Area

Census Tract	Block Group	Total Population	Minority Percentage
13.08	1014	10	100%
13.08	1061	3	100%
206.02	5046	6	67%

Source: P2, Hispanic or Latino, and not Hispanic or Latino by Race, Census 2020

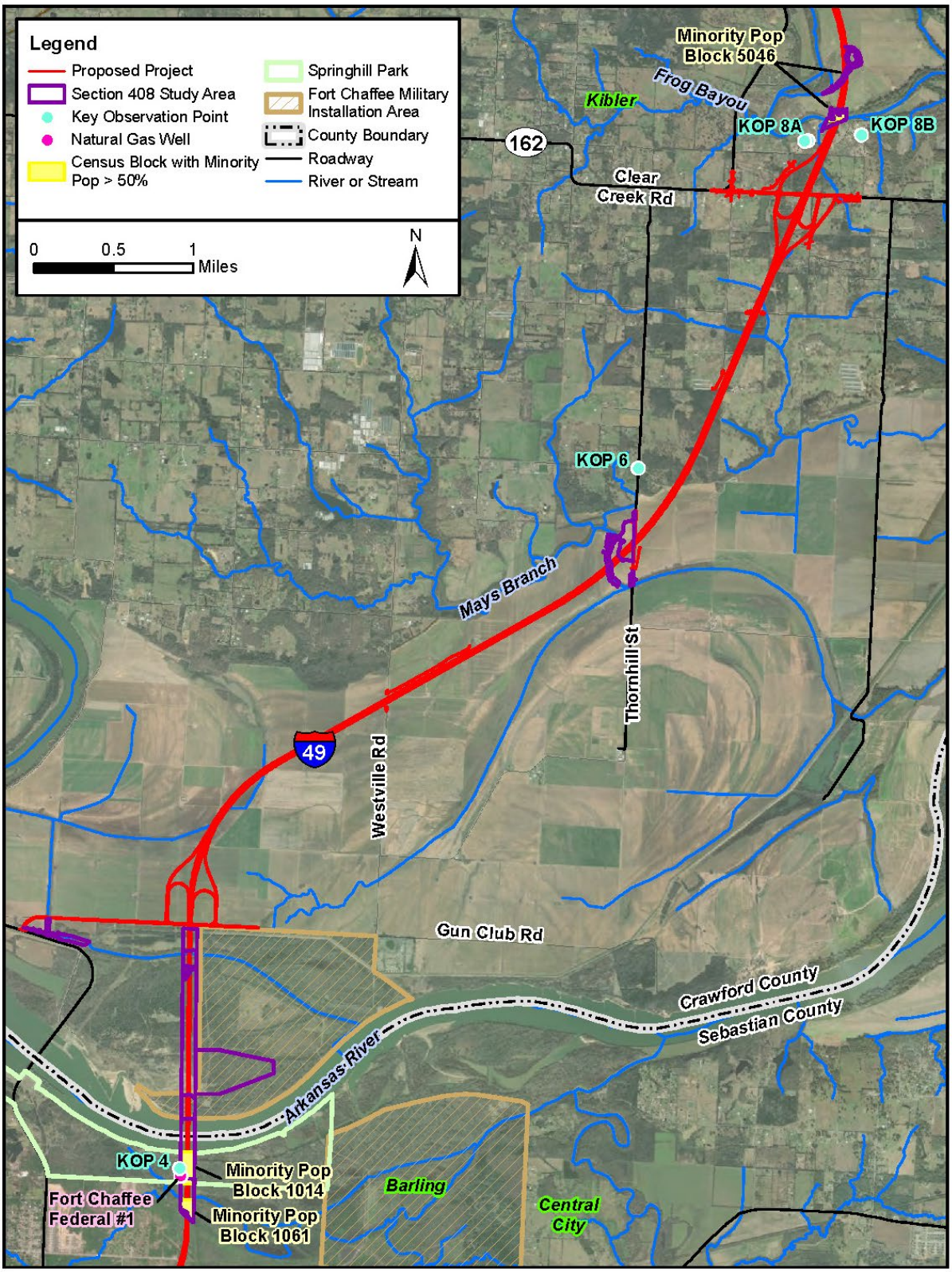
No low income or LEP populations are located within the Section 408 study area. There are also no anticipated impacts to community cohesion, nor are any displacements located within the Section 408 study area. In addition, a portion of Springhill Park and Fort Chaffee Military Installation Area are within the Section 408 study area. The community resource areas are shown in **Figure 3-1** and listed in **Table 3-2** with the acreage and percentage within the Section 408 study area.

Table 3-2: Community Resource Areas within the Section 408 Study Area

Community Resource Areas	Acres of Community Resource within Section 408 Study Area	Percent of Community Resource within Section 408 Study Area	Percent of Community Resource Outside of Section 408 Study Area
Fort Chaffee Military Installation Area (North of the Arkansas River)	69.82	10%	90%
Springhill Park	10.67	2%	98%
CT 13.08, Block 1014 (includes Springhill Park)	11.29	7%	93%
CT 13.08, Block 1061 (includes the Arkansas River flowage easement)	5.93	1%	99%
CT 206.02, Block 5046 (includes the Frog Bayou flowage easement)	9.44	2%	98%

Source: Project Team, 2022

Figure 3-1: Community, Visual, and Hazardous Materials Sites Associated with the Section 408 Study Area



Source: Project Team, 2022

3.2 Historic Resources

Section 106 of the National Historic Preservation Act (NHPA) of 1966 as amended, requires that all federal agencies take into account the effects of their undertakings on historic properties. These properties can include buildings, structures, locations, features, and objects older than 50 years and which are currently listed on, or eligible for nomination to, the National Register of Historic Places (NRHP). The NHPA defines a historic property as "any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion on the National Register…"

3.2.1 No Action

No impacts to historic resources would occur from the No Action alternative.

3.2.2 Requester's Preferred Alternative

The State Historic Preservation Officer (SHPO) served as a cooperating agency on the re-evaluation. In a letter dated December 16, 2021 (**Appendix A**), SHPO concurred with the findings from the Architectural Resources Survey completed for the re-evaluation. Tribal coordination for historic resources occurred as part of the 1997 FEIS and Tribal coordination for historic resources is ongoing as part of the re-evaluation.

There are no historic structures located within the Section 408 study area.

3.3 Archeological Resources

Section 106 of the NHPA of 1966 requires that federal agencies and their designees/authorized representatives consider the effects of their federal undertakings on archeological resources that are listed on or eligible for the NRHP. The process of complying with Section 106 provides state agencies with a role in commenting specifically on potential impacts to significant archaeological resources. The Arkansas Archeological Survey, part of the University of Arkansas system, oversees the management of archeological resources in Arkansas.

3.3.1 No Action

No impacts archeological resources would occur from the No Action alternative.

3.3.2 Requester's Preferred Alternative

Coordination with SHPO was completed for the Archeological Resources Management Summary as part of the re-evaluation. In a letter dated February 9, 2023 (**Appendix A**), SHPO concurred with the management summary findings. Additional SHPO coordination will occur once the Phase I/Phase II Archeological Report is complete. In addition, Tribal coordination for archeological resources occurred as part of the 1997 FEIS and Tribal coordination for archeological resources is ongoing as part of the re-evaluation.

Four archeological sites are located within the Section 408 study area. Two of the sites were identified in previous archeological studies and the other two sites were identified through the

Phase I investigations as part of the Interstate 49 re-evaluation. These sites are listed in **Table 3-3** along with the acreage and percentage of the site located within the Section 408 study area.

Table 3-3: Archeological Sites within the Section 408 Study Area

Archeological Site	Acres of Site within Section 408 Study Area	Percent of Archeological Site within Section 408 Study Area	Percent of Archeological Site Outside of Section 408 Study Area
3CW1354 *	0.15	2%	98%
3CW1358 *	0.03	6%	94%
3CW0864/865 **	0.19	7%	93%
3CW0880 **	0.25	4%	96%

*Notes: * Identified as part of the Phase I investigations for the Interstate 49 re-evaluation.*
*** Identified in previous archeological studies.*
Source: Project Team, 2022

Interstate 49 Re-evaluation Phase I Sites

- **Site 3CW1354** - Prehistoric subsurface artifact scatter found in an active cow pasture east of Highway 162. As a result of Phase I investigations, no NRHP eligibility status could be determined for this site, but avoidance was recommended. If not possible, then Phase II testing investigations were recommended to further assess the site's eligibility.
- **Site CW1358** – A prehistoric subsurface artifact scatter located in an active cow pasture east of Highway 162. As a result of Phase I investigations, the site was recommended Not Eligible for the NRHP under Criterion D. No further work was recommended for the portion of the site within the Phase I survey area.

Previously Recorded Sites

- **Site 3CW0864/865** – A multicomponent precontact and historic period scatter/midden site located on the south side of Gun Club Road. This site was determined eligible for the NRHP in 1997 and tested by Mid-Continental Research Associates, Inc. for the USACE under the Automated Management of Archeological Site Data in Arkansas (AMASDA) Project Number 4439. Avoidance or mitigation, consisting of deep testing and block excavation, was recommended[4]. In 2021, during Phase I investigations, the portion of 3CW0864/0865 located within the survey area was revisited and shovel tested at a 20-m interval to assess the current site condition. No remains of the site could be identified during the Phase I investigations, thought to possibly be the result of disturbance caused by former levee construction or other recent road construction along Gun Club Road. In 2023, boring excavations were conducted near the site and archeological monitoring was conducted to ensure there was no impact to the site. Since Phase I investigations were not able to locate and further assess the eligibility of Site 3CW0864/865, the former assessment that there may be intact deposits which exist with the known site boundary stands. For future considerations, minimization of the footprint of any future

[4] Lafferty, Robert H., III and Michael C. Sierzchula 1998 National Register Testing 3CW864/865 & 3SB752, Fort Chaffee, Arkansas. Prepared for the U.S. Army Corps of Engineers, Little Rock District, under DACW03-95-D-0006, Delivery Order 6 by Mid-Continental Research Associates, Inc., Lowell, Arkansas.

construction activity within the known site boundary, especially relative to the depth of necessary excavation, is recommended and monitoring remains the most practical approach to document construction activities near the site.

- **Site 3CW0880** – A multicomponent prehistoric and historic-period site located east of Kibler, on the south side of Frog Bayou, along Waterfront Road. First recorded in 1997 by SPEARS, Inc. during the Phase I survey[5]. As a result of their investigations, the NRHP eligibility status remained undetermined. Phase I survey in 2021 consisted of shovel testing along the northern boundary of the site. As a result of these investigations, the site boundary was expanded from a terrace along Frog Bayou up to knoll within a residential area; however, right of entry was denied to portions of the site area. During an addendum survey conducted in 2022, further investigation was conducted along Waterfront Road; however the NRHP eligibility status of the site remains unknown due to lack of right of entry and monitoring may be necessary during construction for the portion of the site within the Frog Bayou terrace.

Per the 2021 Programmatic Agreement among FHWA, SHPO, the Advisory Council on Historic Preservation, the Osage Nation, and ARDOT (Programmatic Agreement), if previously unidentified archeological properties, or unanticipated effects, are discovered after ARDOT has completed its review, that portion of the project will stop immediately, in accordance with Section 107.10(c) of AHTD's[6] *Standard Specifications for Highway Construction*, Edition of 2014. No ground-disturbing activities will occur within a 200-foot radius of the location of that discovery. ARDOT will consult with FHWA, the State Historic Preservation Officer (SHPO), the Osage Nation, and other consulting Tribes, as appropriate, to record, document, and evaluate NRHP eligibility of the property and the project's effect on the property, and to design a plan for avoiding, minimizing, or mitigating adverse effects of the eligible property.

In addition, and per the 2021 Programmatic Agreement, in the event that human remains or objects that would otherwise be considered associated and unassociated funerary objects pursuant to Native American Graves Protection and Repatriation Act (NAGPRA) are discovered during cultural resources investigations, maintenance, construction, or any other ground disturbing activities, they will be handled in accordance with Arkansas Burial Law (Act 753 of 1991, as amended). Work within a 200-foot radius of the discovery will cease immediately and the location will be secured and protected from damage and disturbance. Measures will be taken to ensure site security and the human remains covered with canvas tarp. No remains will be collected or removed until appropriate consultation has taken place and a plan of action has been developed. ARDOT shall immediately notify the Chief Medical Examiner, SHPO, and FHWA. If human remains are determined to be Native American, a plan for their avoidance or recovery shall be generated in consultation with SHPO, the Osage Nation and other consulting Tribes,

[5] Cooper, Judy Hennessee, Thomas N. Gannon, Carol S. Spears, Margaret J. Guccione, and Glenda Cade 1998 An Archeological Survey of the Preferred Alignment of the U.S. 71 Relocation Project Between DeQueen and Interstate 40 in Sevier, Polk, Scott, Sebastian, and Crawford Counties, Arkansas. Volumes I/II. SPEARS, Inc. West Fork, Arkansas.

[6] AHTD, or the Arkansas Highway Transportation Department, is the former name for ARDOT.

FHWA, and ARDOT. If human remains are determined to be non-Native American, consultation with SHPO and other appropriate parties will be required to determine a plan of action.

3.4 Section 4(f) – Springhill Park

Section 4(f) of the Department of Transportation Act of 1966 protects publicly owned and accessible parks, recreation areas, wildlife and waterfowl refuges, and historic sites, regardless of ownership and accessibility. The law is implemented by the FHWA through the regulation of 23 CFR 774.

3.4.1 No Action

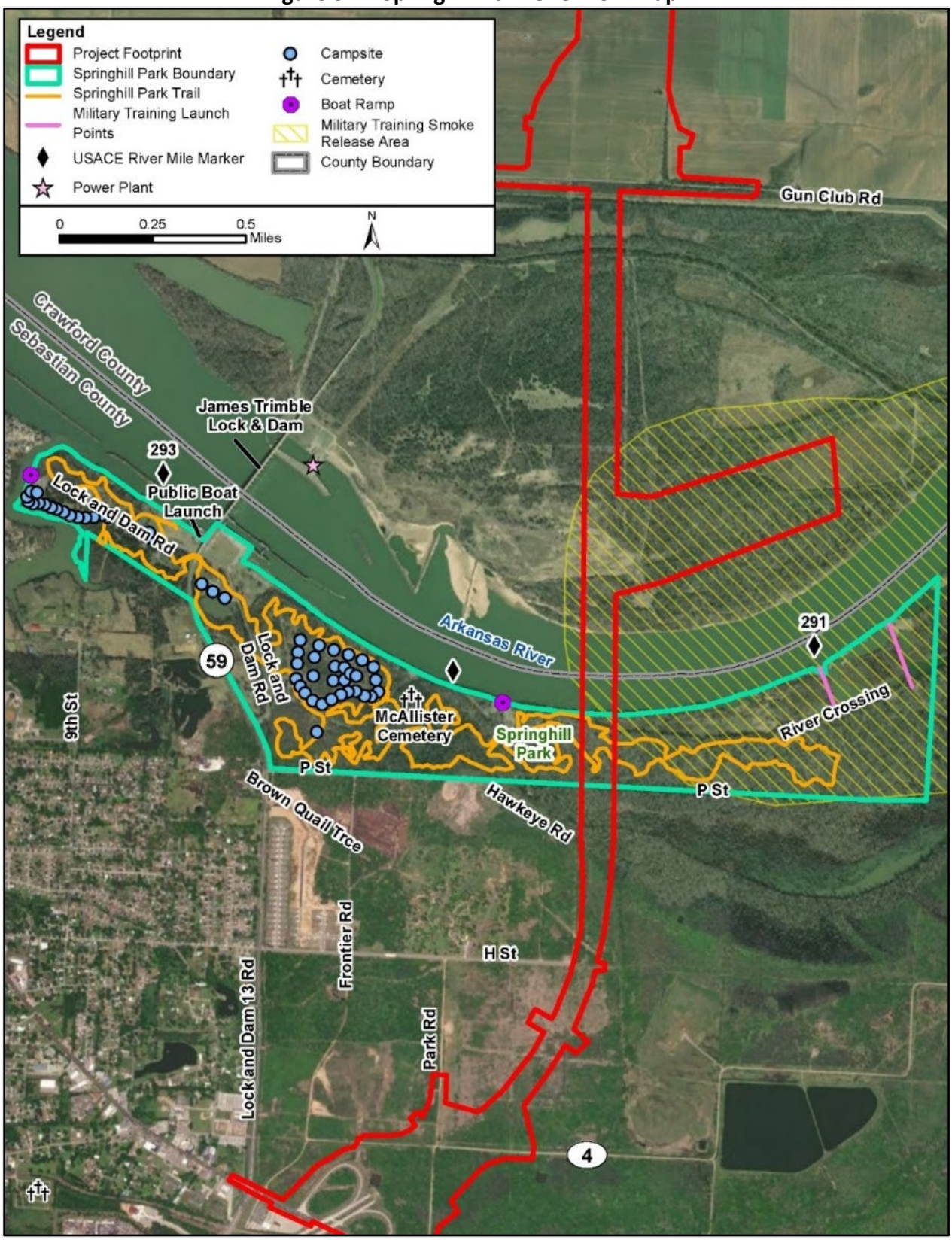
No impacts to Springhill Park would occur from the No Action alternative.

3.4.2 Requester's Preferred Alternative

The proposed project crosses Springhill Park. The USACE owns and manages Springhill Park and is the official with jurisdiction over the park. The park encompasses approximately 337 acres and is located at James W. Trimble Lock and Dam on the south bank of the Arkansas River. Existing facilities provided at the park include picnic areas, a boat launching ramp, camping areas, and a mountain bike/hiking trail that was constructed after the FEIS/ROD. The existing facilities are all located in the western half of the park, upstream of river mile 292.0, with the exception of the boat ramp and the mountain bike/hiking trail, which traverses the majority of the park. The existing facilities are shown in **Figure 3-2.**

In addition to the above features, the eastern areas of the park are utilized by the Fort Chaffee Military Reservation. Fort Chaffee provides Water Obstacle Training for several segments of the armed forces. Part of the training doctrine includes the release of black smoke. The approximate area of smoke release is shown in **Figure 3-2.**

Figure 3-2: Springhill Park Overview Map



Sources: Arkansas GIS Office, 2022; USACE, 2022; Project Team, 2022

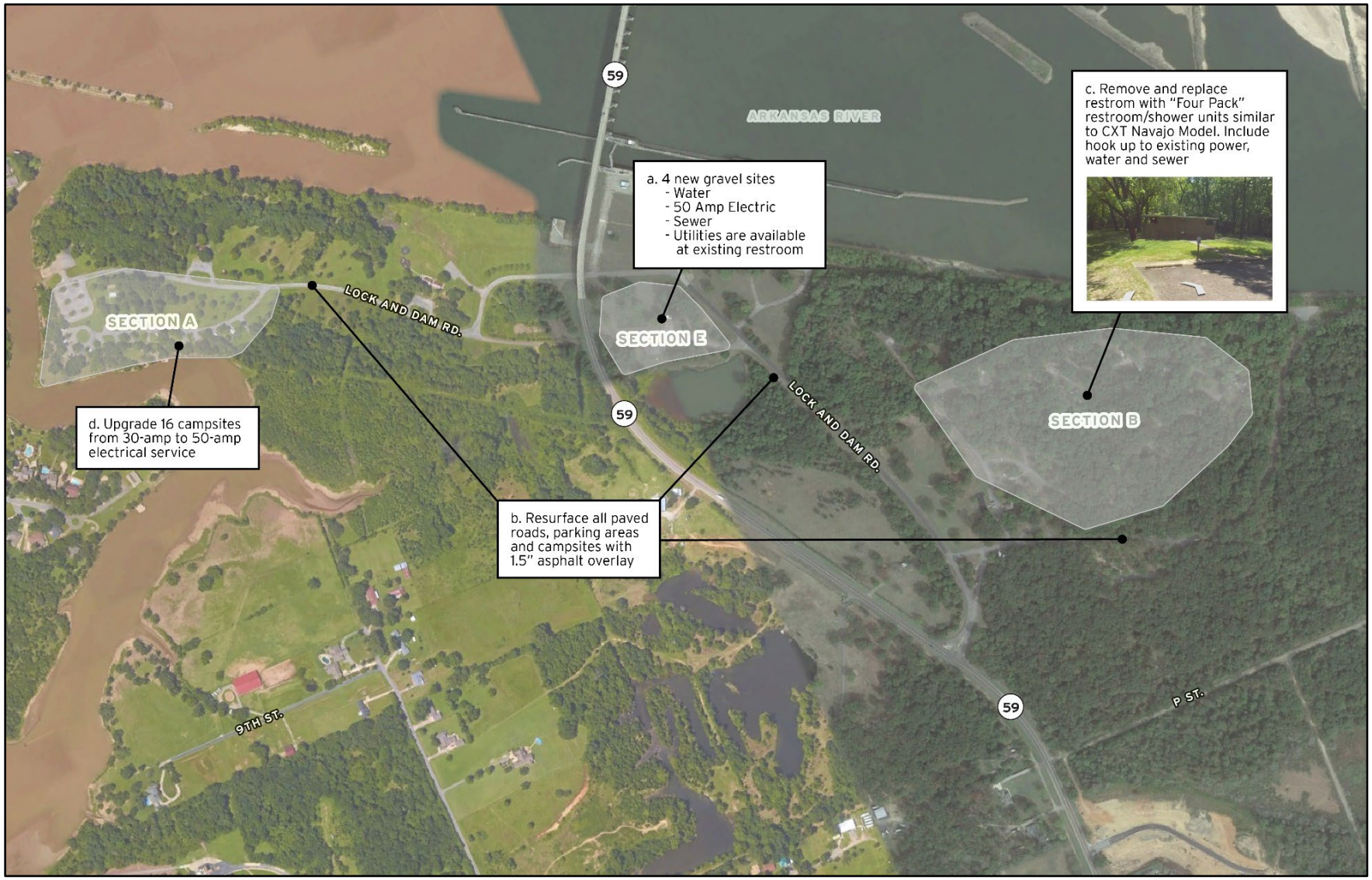
The new Interstate 49 bridge would span approximately 900 feet through Springhill Park and require approximately 10 acres of USACE property, of which approximately six acres would be cleared, resulting a direct use of Springhill Park. There are four abandoned campsites and a currently-unused water fountain, as identified in the 1997 FEIS, located within the project footprint. Tree and vegetation clearing would be limited to 150-feet east and west of the roadway centerline, for a total width of 300-feet across Springhill Park. Since the 1997 FEIS, Springhill Park Trail, a mountain bike/hiking trail, was constructed and would be impacted by the construction of the proposed project. Approximately 2,000 feet of the trail is located within the proposed right of way, of which approximately 583 feet is located under the proposed bridge deck. Portions of the trail under the bridge deck would need to be re-routed to avoid the proposed bridge substructure.

Coordination with the USACE took place on December 2, 2021, to discuss impacts to Springhill Park that were documented in the 1997 FEIS. The 14 measures to minimize harm established in the FEIS were revisited, and potential additional measures needed to minimize harm. The 14 measures to minimize harm are listed in **Chapter 6**, **Table 6-1**.

After the December 2021 meeting, an Individual Section 4(f) evaluation was prepared for Springhill Park that identified additional impacts and mitigation based on the preliminary design. The USACE (correspondence located in **Appendix A**) has requested the following items to mitigate the immediate and future impacts to Springhill Park (**Figure 3-3**):

a. The relocation of four impacted campsites to an area near the E section restroom. These sites will be utilized for park volunteers and should be paved with graveled or concrete living areas. The sites should also be full hookup with water, 50-amp electric service, and sewer. Utilities are available at the nearby E section restroom.
b. Resurface all paved roadways, parking areas, and campsites throughout the park.
c. Destruction, removal, and replacement of the B section restroom. The replacement should be a “Four Pack” of family restroom/shower units. An example of this type of facility is the CXT Navajo model.
d. Upgrade the 16 campsites in A section to 50-amp electric service.

Figure 3-3: Springhill Park Mitigation Items



Source: USACE, 2022 and Project Team, 2022

3.5 Air Quality

Under the Clean Air Act (CAA) of 1970, the Environmental Protection Agency (EPA) is responsible for protecting and improving air quality nationwide. Regulations have been promulgated by the EPA to implement the CAA [40 CFR § 51 et seq.], including the Federal Transportation Conformity Rule (40 CFR § 93 et. seq.), which requires that transportation projects conform to state-level air quality plans or State Implementation Plans (SIPs). The Arkansas Division of Environmental Quality - Office of Air Quality (DEQ) is responsible for the development of the SIP in Arkansas.

EPA establishes National Ambient Air Quality Standards (NAAQS) to protect public health and to regulate emissions of hazardous air pollutants. The EPA has established NAAQS for six of the most common air pollutants: carbon monoxide (CO), lead (Pb), ground-level ozone (O_3), particulate matter (PM), nitrogen dioxide (NO_2), and sulfur dioxide (SO_2), known as "criteria pollutants". National primary NAAQS are set to protect human health, and secondary NAAQS are to protect public welfare from adverse effects including protection against visibility impairment, or damage to animals, crops, vegetation, or buildings.

Air quality in Arkansas is currently being monitored by the DEQ. Information and data on specific monitoring stations can be found at the EPA Air data site.[7]

3.5.1 No Action

No impacts to air quality would occur from the No Action alternative.

3.5.2 Requester's Preferred Alternative

Crawford and Sebastian counties are still within an area designated by the EPA to be in "attainment" of all NAAQS; therefore, conformity rules (40 CFR § 93 et. seq.), which requires that transportation projects conform to state-level air quality plans, do not apply. Air quality impacts are not anticipated.

A Mobile Source Air Toxics (MSAT) analysis was conducted based on FHWA guidance[8]. The qualitative MSAT assessment completed for the proposed project concluded that the ambient concentrations of MSAT could be higher under the Proposed Action Alternative, compared to the No Action Alternative. The localized differences in MSAT concentrations would likely be most pronounced along the new roadway sections. However, the magnitude and the duration of these potential increases cannot be reliably quantified due to incomplete or unavailable information in forecasting project-specific MSAT health impacts. On a regional basis, EPA vehicle and fuel regulations, coupled with fleet turnover, will over time cause substantial reductions that, in almost all cases, would cause region-wide MSAT levels to be substantially lower than present day.

[7] https://www.epa.gov/outdoor-air-quality-data
[8] Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents, FHWA, January 18, 2023

During the construction phase of the proposed action, temporary increases in air pollutant emissions may occur from construction activities. The primary construction-related emissions are particulate matter (fugitive dust) from site preparation. These emissions are temporary in nature (only occurring during actual construction). The potential impacts of particulate matter emissions will be minimized by using fugitive dust control measures such as covering or treating disturbed areas with dust suppression techniques, sprinkling, covering loaded trucks, and other dust abatement controls, as appropriate. All work would comply with the requirements of the Arkansas Water and Air Pollution Control Act. Considering the temporary and transient nature of construction-related emissions, as well as the mitigation actions to be utilized, it is not anticipated that emissions from construction of this project will have any significant impact on air quality in the area.

3.6 Noise

The traffic noise analysis completed as part of the 1997 FEIS was prepared in accordance with 23 Code of Federal Regulations (CFR) 772. In July of 2010, the FHWA regulations were amended. Since then, ARDOT has developed several versions of the *Policy on Highway Traffic Noise Abatement* (ARDOT's Noise Policy) with September 13, 2018 being the latest version. The policy complies with the FHWA noise standards as outlined in the 23 CFR 772 (Procedures for Abatement of Highway Traffic Noise and Construction Noise).

3.6.1 No Action

No impacts from noise would occur from the No Action alternative.

3.6.2 Requester's Preferred Alternative

As part of this re-evaluation, a detailed traffic noise analysis was prepared in accordance with the ARDOT (FHWA-approved) 2018 *Policy on Highway Traffic Noise Abatement*. The FHWA's approved Traffic Noise Model (TNM) 2.5, was used to determine noise levels at receivers along the project footprint.

Existing noise level measurements were conducted November 15-17, 2021. The FHWA approved noise model, TNM 2.5, was used to determine noise levels at receivers representing the noise abatement criteria along the proposed project. The impact determination analysis was based on existing (2021) and predicted (2045) traffic noise levels estimated at the receivers. Three representative receivers were placed in Springhill Park, all of which reported predicted noise impacts. No other representative receivers were located within the Section 408 study area, as most of the land is undeveloped.

The proposed action would result in traffic noise impacts at Springhill Park; however, noise barriers were not determined feasible and reasonable.

During construction of the Proposed Action alternative, construction and ground-disturbing activities could create localized, temporary noise impacts from construction equipment and vehicles. According to the EPA, construction equipment and vehicles can generate noise levels

of approximately 72 to 95 dBA at a distance of approximately 50 ft. Any impacts from noise within the study area would be temporary in nature and occur during the construction phase. There is a possibility that noise levels would be above normal levels in the areas adjacent to the right of way. Noise caused by construction activities would be temporary and restricted to daylight hours when occasional loud noises are considered to be more tolerable. No extended disruption to normal activities in the area would be anticipated by the proposed project.

3.7 Visual

Visual impacts are included in NEPA and Council on Environmental Quality (CEQ) regulations to implement NEPA under the heading of aesthetics.

Section 136 of the Federal Aid Highway Act of 1970 (Public Law 91-605) requires consideration of aesthetic values in the highway planning process. Title 23 of the United States Code (U.S.C.), section 109(h) requires that final decisions on project development are made in the best overall public interest, taking into consideration a number of socio-economic, engineering, and environmental factors including, specifically, aesthetic values. FHWA satisfies the requirements in 23 U.S.C. 109(h) through the NEPA procedures described in 23 Code of Federal Regulations (CFR) 771.

3.7.1 No Action

No impacts to the visual aspect of the Section 408 study area would occur from the No Action alternative.

3.7.2 Requester's Preferred Alternative

Analysis of potential visual impacts was completed at key observation points (KOPs) along the project footprint. KOP 4 is located immediately adjacent to the Section 408 study area within Springhill Park, KOP 6 is located just north of the Mays Branch flowage easement, and KOP 8A and 8B are located just south of the Frog Bayou flowage easement. These KOPs are shown in **Figure 3-1** and potential visual impacts are described below.

KOP 4

KOP 4 is located along the Springhill Park mountain bike trail just south of the Arkansas River. The mountain bike trail is within a densely forested area of the park with limited site visibility beyond the foreground. Portions of the trail under the bridge deck would need to be re-routed to avoid the proposed bridge substructure, which includes eight concrete bents. Bents would include no more than four bridge columns each, for a total of 32 bridge columns located within Springhill Park. Approximately 583 feet of the trail would be located under the bridge deck.

Bridge spans will be cleared of vegetation where the project and the mountain bike trail interact. The project will interrupt natural coherence, introducing a large man-made infrastructure project into the foreground of a mountain bike trail, with the bulk/mass of bridge spans shadowing a landscape cleared of woody vegetation. Concrete columns will be aligned in two rows at consistent repetitive intervals. Clearing activities beyond what would be required to accommodate these elements will be minimized. While the project disrupts the intactness of the natural landscape composition, users' attention and focus will be fleeting as they pass through

the space on a bike. Sensitivity to the view is limited.

KOP 6

KOP 6 is located along Thornhill Street north of and nearby the Mays Branch flowage easement. The current views are wooded rolling hills in the foreground; background views are generally obstructed from dense native vegetation in the foreground. Thornhill Street provides a view corridor through this dense wooded area.

With the project being at grade, where it runs perpendicular to Thornhill Street, it should not dominate the harmony of rolling hills landscape that act at a framework for the background view. In the foreground the project will be integrated into the landscape at grade without disrupting order.

KOP 8A and 8B

KOP 8A and 8B are located along Waterfront Road and Waterfront Circle, just south of the Frog Bayou flowage easement. This area consists of organized large lot rural residential suburban homes on rolling hills; development is generally situated on a single east/west road. A densely vegetated bayou is situated in the southern foreground. The neighborhood is generally cleared, with large open lots. Substantial open space provides for neighborhood cohesion. Rolling wooded hills are often in the background of views throughout the neighborhood. Views from each side of the project, where it will cross under Waterfront Road were collected to provide a synthesis of typical visual impacts.

Changes in landform will occur in the neighborhood as part of the project. The project is designed to be at grade on a compacted earth where it crosses through the residential development. A new Waterfront Road bridge will be constructed over Interstate 49. The project will alter the existing visual cohesion of the residential environment. Continuity of landscaped open space in the neighborhood will be interrupted with the bulk/mass of the project and an elevated roadway. Some residential homes making up the existing visual composition will be removed. Homes immediately adjacent to the project will have an amended view. The project will be in the foreground view for those living adjacent to the project, the change in landform may partially obstruct existing views.

Construction impacts would be temporary in nature but would be visible to most viewer groups. Demolition of some structures would affect visual form of the site, including removal of buildings, trees, and roads. Mature trees or large areas of vegetation may be removed. Staging areas may contain stockpiles of materials, lighting, signage, fences, and presence of large equipment such as cranes, scaffolding, and earthmoving equipment. Additional trucks and equipment would travel to and from the site. The construction site would represent a visual nuisance for the surrounding viewers; however, it would be temporary and typical of roadway projects where construction is occurring. If nighttime work occurs, the construction contractor would minimize project-related light and glare, consistent with safety considerations. Portable lights may be operated at the lowest practicable wattage and height would be minimized. Lights would be screened and directed downward toward work activities and away from the night sky and nearby residents. The number of nighttime lights used would be minimized to the extent practicable.

3.8 Hazardous Materials

A regulated facility search was conducted in accordance with prescribed radii established in the American Society for Testing and Materials (ASTM) International E1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.*

3.8.1 No Action

No impacts from hazardous materials would occur from the No Action alternative.

3.8.2 Requester's Preferred Alternative

The project footprint was inspected on June 22-23, 2021, then again on November 11, 2021 and January 21, 2022.

No regulated sites are located within the Section 408 study area. There is one natural gas well located within the Section 408 study area, the Fort Chaffee Federal #1 operated by the Merit Energy Company LLC. This well is located within Springhill Park and is shown in **Figure 3-1**.

Wells located within the project footprint that cannot be avoided would require plug and abandonment in accordance with Arkansas Oil and Gas Commission regulations. This would require coordination between ARDOT and the well operators, who would be responsible for properly plugging and abandoning the wells. Equipment infrastructure (gathering lines and other piping) would also require removal.

3.9 Important Farmland

The Farmlands Protection Policy Act (FPPA) of 1984 requires a farmland impact evaluation for applicable, federally funded projects. The purpose of the FPPA is to minimize the extent to which federal programs contribute to the unnecessary and irreversible conversion of farmland to nonagricultural uses. Important Farmland consists of Prime Farmland, Unique Farmland, and Farmland of Statewide or Local Importance.

3.9.1 No Action

No impacts to important farmlands would occur from the No Action alternative.

3.9.2 Requester's Preferred Alternative

There are approximately 44.9 acres of important farmland located within the Section 408 study area. In Sebastian County, the study area is considered urban as it is located entirely within the city limits of Barling and FPPA does not apply. The NRCS-CPA-106 is the Farmland Conversion Impact Rating for Corridor Type Projects and this form was completed for the overall project in Crawford County. Coordination with the NRCS occurred on March 28, 2023. The overall score on CPA-106 is 157. Per the regulations, because the score is less than 160 there is no need to give further consideration for protection and no additional sites need to be evaluated. See **Appendix B** for the complete CPA-106 Form and the USDA Farmland Classification of Soils.

3.10 Floodplains

EO 11988 pertains to floodplain management and directs all federal agencies to reduce the risk of losses associated with floods, to minimize the impact of floods on human health and safety, and to preserve the beneficial values of floodplains. Compliance with EO 11988 is required for projects that are federally undertaken, financed, or assisted and that involve a floodplain encroachment, which is an action within the limits of the base floodplain. Where the base floodplain cannot be avoided, special considerations and studies for new facilities and structures are needed.

3.10.1 No Action

No impacts to floodplains would occur from the No Action alternative.

3.10.2 Requester's Preferred Alternative

The Federal Emergency Management Agency's (FEMA) National Flood Hazard Layer (NFHL) Viewer and available GIS data for Crawford and Sebastian counties were reviewed to evaluate the location of any mapped 100-year floodplains in relation to aquatic resources located within the Section 408 study area. Available flood hazard areas downloaded in June 2023 from the Arkansas GIS Office and FEMA flood insurance rate map (FIRM) Panels were reviewed to determine flood zones. Approximately 191.9 acres of FEMA 100-year floodplains are located within the Section 408 study area. Impacts to floodplains are primarily associated with the Arkansas River and its tributaries in Sebastian and Crawford Counties. To ensure no rise in the 100-year floodplain at this location, removal of trees is needed. A tree removal area is planned just north of the Arkansas River on land currently owned by Fort Chaffee. Coordination with Fort Chaffee and the USACE is currently ongoing. The proposed action would incur flowage easement increases at Mays Branch and Frog Bayou. To mitigate these increases, flowage easement excavation would occur within the flowage easement at each respective site. Floodplain areas are shown in **Figure 3-4**, **Figure 3-5**, and **Figure 3-6**. The tree removal area is shown in **Figure 3-4**.

3.11 Streams and Wetlands

Waters of the U.S., including wetland resources are protected under Section 404 of the Clean Water Act (33 US Code [USC] 1344) and EO 11990 Protection of Wetlands (EPA, 1977).

3.11.1 No Action

No impacts to waters of the U.S., including wetlands would occur from the No Action alternative.

3.11.2 Requester's Preferred Alternative

Field work occurred over various days in June, August, September, and November 2021 and in March, May, and June 2022 and in June 2023 to identify and delineate all water and wetland features within the overall project footprint.

Within the Section 408 study area there are approximately 9,661 linear feet (17.85 acres) of

water features and approximately 17.03 acres of wetland features identified. The water features consist of ponds and ephemeral, intermittent, and perennial streams. The wetland features consist of emergent and forested wetlands. There were no scrub/shrub wetlands observed within the Section 408 study area. **Table 3-4** provides the total number of features identified in the Section 408 study area and includes the delineated, total linear, permanent impacts, and temporary impacts. **Figure 3-4**, **Figure 3-5**, **and** **Figure 3-6** show the water and wetland features within the Section 408 study area.

Table 3-4: Water and Wetland Features within the Section 408 Study Area

Feature ID*	Feature Type	Feature Name	Total Delineated Acres	Total Linear Feet	Anticipated Permanent Fill Impacts (Acres/Linear Feet)**	Anticipated Temporary Fill Impacts (Acres/Linear Feet)**
Water 16	Ephemeral Stream	Unnamed Stream	0.02	291	0.00/0.00	0.00/0.00
Wetland 10	Forested/ Emergent Wetland	Unnamed Wetland	0.07	N/A	0.07	0.00
Water 17	Perennial Stream	Unnamed Tributary of Little Vache Grasse Creek	0.14	475	0.00/0.00	0.00/0.00
Wetland 11	Forested/ Emergent Wetland	Unnamed Wetland	0.77	N/A	0.05	0.00
Water 18	Ephemeral Stream	Unnamed Stream	0.01	289	0.01/143	0/0
Wetland 12A	Forested/ Emergent Wetland	Unnamed Wetland	0.06	N/A	0.00/0.00	0.00
Wetland 12B	Forested/ Emergent Wetland	Unnamed Wetland	0.03	N/A	0.01	0.00
Wetland 12C	Forested/ Emergent Wetland	Unnamed Wetland	0.10	N/A	0.09	0.00
Wetland 12D	Forested/ Emergent Wetland	Unnamed Wetland	0.10	N/A	0.10	0.00
Wetland 13	Forested Wetland	Unnamed Wetland	1.55	N/A	0.63	0.00
Wetland 14	Forested Wetland	Unnamed Wetland	1.25	N/A	0.48	0.00
Water 19	Ephemeral Stream	Unnamed Stream	0.13	658	0.10/488	0.00/0.00
Water 20	Perennial Stream	Arkansas River	12.00	459	0.01/80	1.20/175
Wetland 15	Forested Wetland	Unnamed Wetland	1.08	N/A	0.41	0.00
Wetland 16	Forested Wetland	Unnamed Wetland	1.75	N/A	1.24	0.00

Feature ID*	Feature Type	Feature Name	Total Delineated Acres	Total Linear Feet	Anticipated Permanent Fill Impacts (Acres/Linear Feet)**	Anticipated Temporary Fill Impacts (Acres/Linear Feet)**
TR Water 1	Ephemeral Stream	Unnamed Stream	0.17	1137	0.00/0.00	0.00/0.00
TR Wetland 1	Forested Wetland	Unnamed Wetland	2.25	N/A	2.25	0.00
TR Wetland 2	Forested Wetland	Unnamed Wetland	0.21	N/A	0.21	0.00
Water 21	Ephemeral Stream	Unnamed Stream	0.11	486	0.05/228	0/0
Wetland 17	Forested Wetland	Unnamed Wetland	2.56	N/A	1.08	0.00
Water 22	Perennial Stream	Flat Rock Creek	0.40	462	0.00/0.00	0.07/78
Wetland 18	Forested Wetland	Unnamed Wetland	1.30	N/A	0.54	0.00
Water 26	Perennial Stream	Unnamed Tributary of Arkansas River	1.30	2504	0.07/146	0.00/0.00
Water 26A	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.02	140	0.00/0.00	0.00/0.00
Water 26B	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.02	204	0.00/0.00	0.00/0.00
Water 26C	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.02	238	0.00/0.00	0.00/0.00
Water 26D	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.01	125	0.00/0.00	0.00/0.00
Water 26E	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.01	81	0.00/0.00	0.00/0.00
Wetland 19	Forested Wetland	Unnamed Wetland	0.61	N/A	0.00	0.00
Wetland 20	Forested Wetland	Unnamed Wetland	0.73	N/A	0.00	0.00
Water 27	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.13	1376	0.02/	0.00/0.00
Water 27A	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.002	57	0.00/0.00	0.00/0.00
Water 27B	Ephemeral Stream	Unnamed Tributary of Arkansas River	0.001	40	0.00/0.00	0.00/0.00

Feature ID*	Feature Type	Feature Name	Total Delineated Acres	Total Linear Feet	Anticipated Permanent Fill Impacts (Acres/Linear Feet)**	Anticipated Temporary Fill Impacts (Acres/Linear Feet)**
Water 29	Perennial Stream	Mays Branch	1.16	1,858	0.05/136	0.19/283
Water 57	Perennial Stream	Frog Bayou	2.00	662	0.0004/3	0.43/240
Water 59	Perennial Stream	Unnamed Tributary of Frog Bayou	0.09	343	0.00/0.00	0.00/0.00
Water 60	Pond	Unnamed Pond	0.74	N/A	0.74	0/0
Wetland 23	Emergent Wetland	Unnamed Wetland	0.97	N/A	0.86	0.00
Wetland 24	Emergent Wetland	Unnamed Wetland	1.80	N/A	0.30	0.00

**Feature ID corresponds to the feature in the delineation report for the project limits (2023 re-evaluation).*
***Impact calculations based on the approximate 30% strip map design. Wetland impacts include areas that will be filled and/or cleared.*
Source: Project Team, 2021, 2021, and 2023

Total permanent wetland impacts in the Section 408 study area are estimated at 5.85 acres. Total permanent water impacts in the Section 408 study area are estimated at 1,325 linear feet (1.05 acres). The permanent impacts would result from the bridge piers for bridges, culvert installation, and placement of fill for the road base and concrete road surface.

The total temporary wetland impacts in the Section 408 study area are estimated at 0 acres. The total temporary water impacts in the Section 408 study area are estimated at 652 linear feet (0.39 acres). Temporary impacts in the Section 408 study area are associated with temporary construction platforms and access roads. Temporary fills would be removed in their entirety and the area restored to pre-existing contours.

At the Arkansas River, a temporary construction platform would be constructed on the north side and extend into the river. The platform is approximately 100 feet wide and 300 long. The temporary impacts are estimated at 175 linear feet (1.20 acres). Approximately 42,572 cubic yards of fill material would be placed within the ordinary high-water mark (OHWM). The fill material would consist of stone with a soil cap.

At Flat Rock Creek, a temporary access road would be constructed across the stream. Temporary culverts would be installed to maintain normal downstream flows. The access road would be located on the east side of the proposed bridge and is approximately 78 feet wide and 200 feet long. The temporary impacts are estimated at 78 linear feet (0.07 acres). Approximately 844 cubic yards of fill material would be placed within the OHWM. The fill material would consist of stone with a soil cap.

At Frog Bayou, temporary construction platforms would be constructed along the south and north sides of the stream. On the south side of the stream the temporary platform is

approximately 46 feet wide and 250 feet long and on the north side it is approximately 35 feet wide and 225 long. The temporary impacts are estimated at 240 linear feet (0.43 acres). Approximately 5,100 cubic yards of fill material would be placed within the OHWM. The fill material would consist of stone with a soil cap.

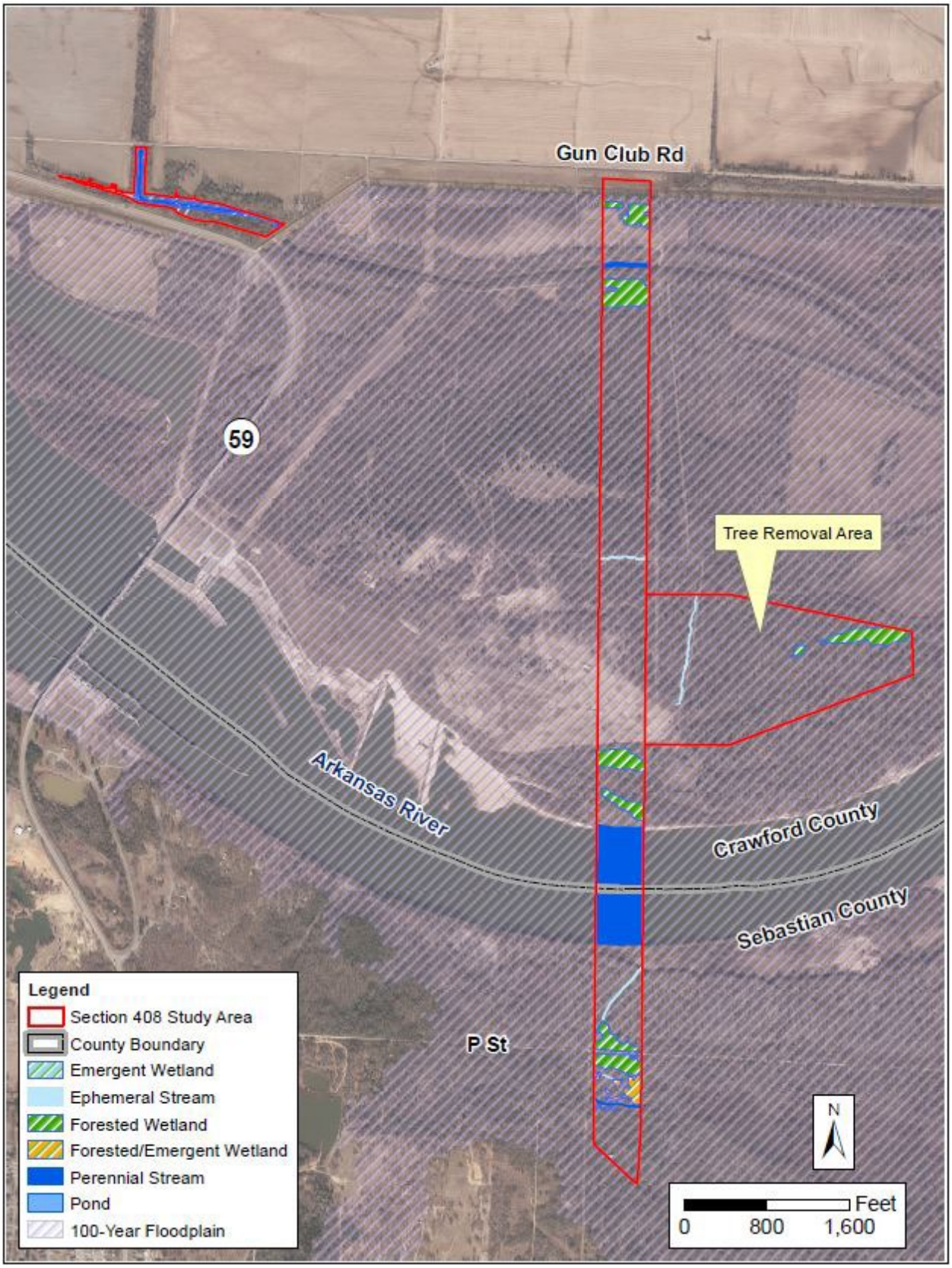
Final impacts to water and wetland features will be determined when the detailed project design has advanced (approximately 60% complete). A Standard (Individual) Permit would be submitted for the overall project, including the water and wetland features within the Section 408 study area. Compensatory mitigation will be provided at an approved mitigation bank that services the area. The functional assessment method used in determining compensatory mitigation requirements for wetlands in the Little Rock USACE District is the Charleston Method. The functional assessment method used in determining compensatory mitigation requirements for streams in the Little Rock USACE District is the Little Rock District Stream Method.

The proposed project is in the service area of four mitigation banks with available mitigation credits. These are the Hartman Bottoms Mitigation Bank, Cadron Creek Mitigation Bank, Dutch Creek Mitigation Bank, and Gum Log Creek Mitigation Bank. The final mitigation credits would be determined during the Section 404 permitting process and the mitigation banks that would be used would be determined based on their available credits at that time. Construction should be allowed under the terms of a Section 404 Standard (Individual) Permit.

The proposed project follows the Selected Alignment from the 1997 FEIS and is considered the least environmentally damaging practicable alternative. Major adjustments to the Selected Alignment are constrained by other resources. A major horizontal alignment shift to avoid the known waters and wetlands would still result in impacts in the Section 408 study area and overall project footprint due to the number and spatial distribution patterns of water features and wetland communities. Therefore, it is not possible to completely avoid water and wetland impacts. A horizontal change would also result in additional impacts to other environmental resources such as cultural resources, noise, displacements, etc. The Selected Alignment was determined after thorough consideration of all environmental concerns including existing topography. Minor refinements were developed as part of the preliminary design during the re-evaluation to further avoid and/or minimize impacts to streams and wetlands, including spanning water and/or wetland features, and minimizing areas cleared within the right of way.

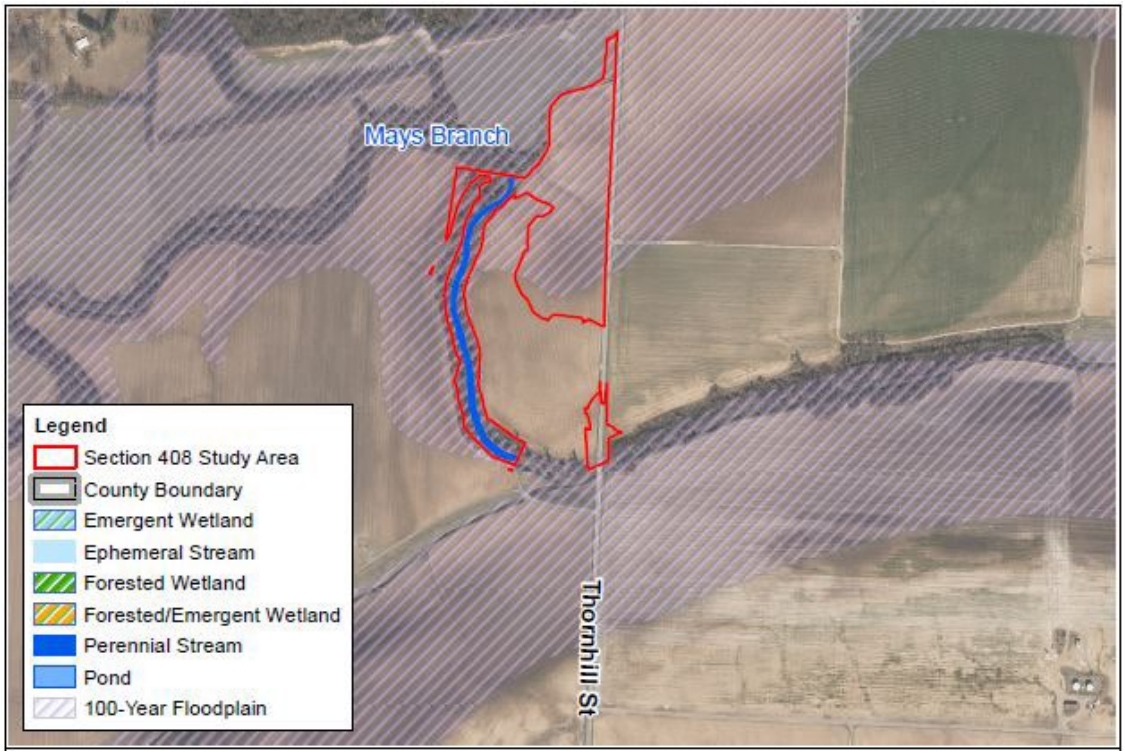
In accordance with Section 404(b)(1) guidelines, wetland impacts were minimized to the greatest extent possible when determining the location of the Selected Alignment. The project will implement all necessary preconstruction and post-construction best management practices (BMPs) and take necessary mitigation measures to assure that impacts to wetlands are minimized to the extent practicable.

Figure 3-4: Waters and Wetlands within the Section 408 Study Area at the Arkansas River



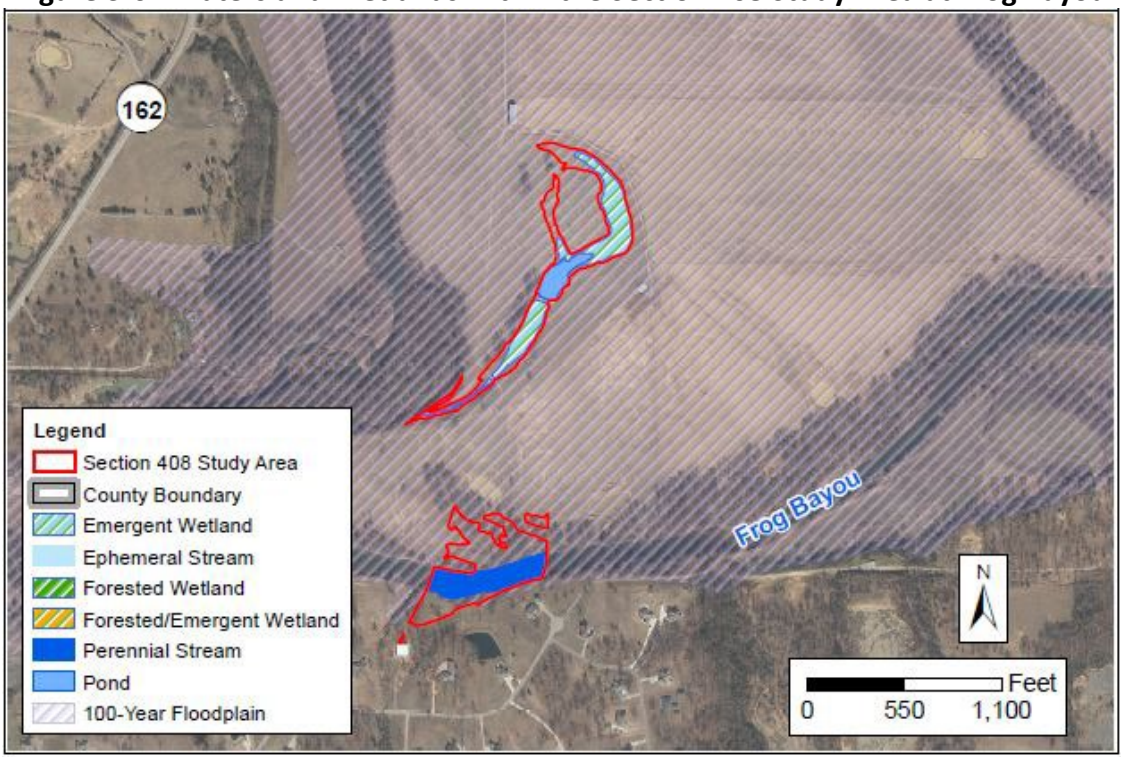
Source: Project Team, 2021, 2022 and 2023

Figure 3-5: Waters and Wetlands within the Section 408 Study Area at Mays Branch



Source: Project Team, 2021, 2022, and 2023

Figure 3-6: Waters and Wetlands within the Section 408 Study Area at Frog Bayou



Source: Project Team, 2021, 2022, and 2023

3.12 Water Quality

Water quality impacts were assessed for Section 303(d) impaired waters, Section 401/402 compliance, surface water, groundwater, and public water supplies and are summarized below.

3.12.1 No Action

No impacts to water quality would occur from the No Action alternative.

3.12.2 Requester's Preferred Alternative

Section 303(d)

The Arkansas Department of Energy and Environment's EnviroView and AquaView interactive maps were reviewed to identify any Section 303(d) waters within the Section 408 study area. The latest approved Section 303(d) data for download from the Arkansas GIS Office is from 2018. There were no Section 303(d) segments listed for Sebastian County or Crawford County in the 2018 approved list. Based on this data, runoff from this proposed project would not discharge directly into a Section 303(d) listed impaired water, or into a stream within five miles upstream of a Section 303(d) listed impaired water.

Construction and maintenance projects which require work in a waterbody must have a Short Term Activity Authorization (STAA) from the Arkansas DEQ. The STAA is granted by letter to the Department and authorizes the temporarily exceedance of turbidity standards during in-stream activities such as bridge or culvert construction, channel alterations, debris removal, and maintenance activities. The current source of sediment is primarily from sheet and rill erosion associated with agricultural.

Section 401

The proposed project would result in work in waterbodies and require a USACE Section 404 Standard (Individual) Permit. The Standard Permit would include all areas within the entire project limits, including the Section 408 project area. Section 401 Individual Water Quality Certification (401 Certification) coverage and STAA from the Arkansas DEQ would be required.

As this project requires a Section 404 Standard (Individual) Permit, ARDOT will request individual water quality certification from DEQ as part of the USACE 404 Permit public notice process. In Arkansas, water quality certification must be issued by the DEQ before the Section 404 Permit is valid. Section 401 Water Quality Certification requires reasonable assurance that the project be constructed in a manner that would not physically alter a substantial segment of a water body and would not violate DEQ water quality standards.

Section 402

Section 402 of the CWA established the National Pollutant Discharge Elimination System (NPDES) permit program (33 U.S.C. 1342), which is administered by the EPA and regulates point source discharges into waters of the U.S. The EPA administers the national program but has delegated this authority within the State of Arkansas to the DEQ. Under this delegated authority, DEQ issues a NPDES Construction Stormwater Permit that is applicable to all construction sites in Arkansas

that result in an acre or more of soil disturbance.

The overall proposed project, including the Section 408 study area, meets the definition of a "large construction site" which is any construction activity that disturbs or exposes a total of five acres or more. A Stormwater Pollution Prevention Plan (SWPPP) must be prepared and submitted to DEQ along with a Notice of Intent (NOI), and additional supporting documentation. When the SWPPP and NOI are deemed complete, DEQ will issue a Notice of Coverage (NOC). A Notice of Termination (NOT) must be submitted to DEQ when the project is completed and stabilized to end permit coverage. Any activities associated with the proposed project would be implemented, operated, and maintained using BMPs. These BMPs would be used to control discharge of pollutants from the project site, erosion of disturbed soils, and sedimentation of those soils after disturbance.

Surface Water

The Arkansas River, Flat Rock Creek, Mays Branch, and Frog Bayou cross the Section 408 study area. There are no water quality monitoring stations located in the Section 408 study area. Nearby monitoring stations are located at Massard Creek (ARK0178D, ARK0178E, ARK0231), Vache Grasse Creek (ARK0232), Flat Rock Creek (ARK0069A, ARK0069B), Arkansas River (ARK0038), and Frog Bayou (ARK0047). Each of these streams met all current water quality standards. Potential surface water quality impacts during construction would be temporary in nature and would be minimized through site specific erosion and sedimentation control measures at all creek and river crossings and comply with all requirements of the CWA.

Groundwater

Groundwater in the Section 408 study area is not utilized as a public water source. Any construction from the proposed project occurring below the ground surface would only locally disturb the uppermost soil layer into which rainwater infiltration occurs. The addition of impervious cover, both temporary and permanent, would alter the infiltration rate into the subsurface within the Section 408 study area. Construction could encounter groundwater. The anticipated foundation (cased drilled shafts, driven steel piles, and limited shallow footings) and surface construction procedures limit the potential for groundwater contamination. However, if groundwater is encountered and is suspected of contamination, it will be removed and disposed of through a variety of dewatering methods in accordance with federal, state, and local regulatory procedures. The proposed project would have minimal impacts to groundwater resources in the project area.

Public Water Supply

According to the EPA Map of Sole Source Aquifer Locations, there are no sole source aquifers within the Section 408 study area. Currently, no wellhead protection areas are located within the Section 408 study area and no future plans to establish any are anticipated. There are no surface water sources for the communities within, and adjacent to, the Section 408 study area.

3.13 Protected Species

Federally listed threatened and endangered species are subject to the protection afforded under

Section 7 of the Endangered Species Act of 1973, as amended (ESA) (16USC 1531 et seq.). The ESA provides protection of animal and plant species that have been determined to be in population decline and are in jeopardy of becoming extinct.

3.13.1 No Action

No impacts to threatened or endangered species would occur from the No Action alternative.

3.13.2 Requester's Preferred Alternative

A Biological Assessment was prepared for the overall proposed project and includes the Section 408 study area. Potential impacts to Threatened and Endangered Species resulting from the proposed project are summarized below. The letter from USFWS citing concurrence on the Biological Assessment is included in **Appendix A**.

Due to the size, complexity, and developing design of the overall proposed project, multiple regulatory review requests have been submitted within the USFWS ECOS-IPaC system since the spring of 2021 to identify proposed and final designated critical habitat, as well as any threatened, endangered, proposed and candidate species that may occur within and/or may be affected by the overall project footprint as per section 7 of the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. 1531 et seq.). **Table 3-5** table summarizes the determination of effects for all species listed on the latest USFWS ECOS-IPaC (August 26, 2022; Project Code: 2022-0010163).

Table 3-5: Determination of Potential Effects to Federally Listed Species within the Section 408 Study Area

Species Name (Common)	Scientific Name	Federal Listing Status	Present In Action Area	Effect Determination			Assumptions Used to Reach Determinations
				NE	NLAA	LAA	
Alligator Snapping Turtle	*Macrochelys temminickii*	Proposed Threatened	Yes		NLAA		Suitable habitat present. Implementation of BMPs would avoid impacts to species.
Gray Bat	*Myotis grisescens*	Endangered	Yes		NLAA		Impacts to foraging habitat only, which BMPs would reduce. Action site is likely more than 10 miles from roost site.
Indiana Bat	*Myotis sodalis*	Endangered	No		NLAA		Species not present, but suitable habitat available.
Northern Long-eared Bat	*Myotis septentrionalis*	Threatened	No		NLAA		Species not present, but suitable habitat available.
Ozark Big-eared Bat	*Corynorhinus townsendii ingens*	Endangered	No		NLAA		Species not present, but suitable habitat available.
Tricolored Bat	*Perimyotis subflavus*	Proposed Endangered	Yes		NLAA		Species is present, and impacts would remove summer-roosting habitat. Tree removal will be restricted to winter clearing while species is absent to prevent incidental take.

Species Name (Common)	Scientific Name	Federal Listing Status	Present In Action Area	Effect Determination			Assumptions Used to Reach Determinations
				NE	NLAA	LAA	
Eastern Black Rail	*Laterallus jamaicensis* ssp. *jamaicensis*	Threatened	No		NLAA		Very little suitable habitat and distance to known populations.
Piping Plover	*Charadrius melodus*	Threatened	No		NLAA		Migratory bird that spends little time in the area. Distance to known populations.
Rufa Red Knot	*Calidris canutus rufa*	Threatened	No		NLAA		Migratory bird that spends little, if any, time in the area. Distance to known wintering sites and key staging and stopover areas.
American Burying Beetle	*Nicrophorus americanus*	Threatened	No		NLAA		Negative survey results in area over last decade and distance to known populations.
Monarch Butterfly	*Danaus plexippus*	Candidate	Yes		NLAA		Limited suitable breeding habitat present in project footprint. General nectaring habitat present, but minimization measures to create better monarch habitat would offset loss of current habitat.
Missouri Bladderpod	*Physaria filiformis*	Threatened	No		NE		Lack of habitat and distance to known populations.

Notes: NE = No Effect; NLAA = May Affect, Not Likely to Adversely Affect; L–A - Likely to Adversely Affect.
Source: USFWS ECOs IPaC results (August 26, 2022; Project Code: 2022-0010163).

Bald Eagle

The bald eagle (*Haliaeetus leucocephalus*) is no longer federally-listed under the ESA, but is still a protected species by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d). As shown in **Figure 3-7**, one bald eagle nest is known to occur approximately 720 feet southeast of the Section 408 study area along the northern bank of the Arkansas River. USFWS National Bald Eagle Management Guidelines (2007) prohibit all tree clearing of overstory trees within 330 feet of the nest to maintain a landscape buffer and provide a natural protective barrier around the nest. In addition, vegetation clearing for road construction projects should not be conducted within 660 feet of a bald eagle nest during their breeding season. No impacts to the Bald Eagle are anticipated as no work activities would occur within 660 feet of the nest.

Other Migratory Birds

Cliff swallows (*Petrochelidon pyrrhonota*) and barn swallows (*Hirundo rustica*) are small colonial and semi-colonial nesting birds protected by the federal Migratory Bird Treaty Reform Act of 2004 (Pub. L. 108-447, 118 Stat. 2809, 3071-72). Both species commonly use man-made structures for nesting, including bridges and culverts. Other migratory birds, such as eastern phoebe (*Sayornis phoebe*), can also nest in bridges. Existing bridge structures and culverts were surveyed for migratory bird nests. There were no nests identified on the structures within the Section 408 study area.

3.14 Wildlife and Habitat

The Section 408 study area contains habitat that may provide suitable habitat for threatened and endangered species. Below is an accounting of potential habitat within the Section 408 study area.

3.14.1 No Action

No impacts to vegetation would occur from the No Action alternative.

3.14.2 Requester's Preferred Alternative

The existing vegetation varied throughout the Section 408 study area has been classified into eight general habitat categories. These general habitat categories are the following.

- **Agriculture** habitats are areas used for livestock grazing or crops. Dominant species observed included broomsedge bluestem (*Andropogon virginicus*), panic wildgrass (*Dichanthelium oligasanthes*), rosette panicgrass (*Dichanthelium latifolium*), prairie bishop (*Bifora americana*), bermudagrass (*Cynodon dactylon*), beaked panicgrass (*Panicum anceps*), hairy crabgrass (*Digitaria sanguinalis*), mat sandbur (*Cenchrus longispinus*), knotroot bristlegrass (*Setaria parviflora*), rough cocklebur (*Xanthium strumarium*), and barnyardgrass (*Echinochloa crus-galli*), and sawtooth blackberry (*Rubus argutus*). Woody vegetation consisted of American persimmon (*Diospyros virginiana*), possumhaw (*Ilex decidua*), and white ash (*Fraxinus americana*). The area utilized for livestock grazing is located north of the Arkansas River and north of Frog Bayou. The area utilized for crops is primarily located at Mays Branch. Crops observed were soybeans.
- **Developed** habitats are areas associated with residential or developed properties and existing roadway right of ways. These areas have been altered in the past and are routinely maintained by mechanical means (mowing) and/or herbicide treatments. Vegetation associated with this habitat type varies and typically consists of primarily herbaceous vegetation with some woody vegetation and may consist of bermudagrass (*Cynodon dactylon*), tussock ryegrass (*Lolium perenne*), and hairy crabgrass. The developed areas within the Section 408 study area consists of various paved or gravel roadways and the levee.
- **Forested** habitat are areas dominated by mature woody trees and sparse understory. Dominant species observed included green ash (*Fraxinus pennsylvanica*), white ash, eastern redcedar (*Juniperus virginiana*), American sycamore (*Platanus occidentalis*), mockernut hickory (*Carya tomentosa*), silver maple (*Acer saccharinum*), winged elm (*Ulmus alata*), black willow (*Salix nigra*), bitternut hickory (*Carya cordiformis*), honey locust (*Gleditsia triacanthos*), water oak (*Quercus nigra*), common hackberry (*Celtis occidentalis*), pecan (*Carya illinoinensis*), cottonwood (*Populus deltoides*), Chinese privet (*Ligustrum sinense*), and boxelder (*Acer negundo*). Other vegetation included roundleaf greenbrier (*Smilax rotundifolia*), American trumpetvine (*Campsis radicans*), panic wildgrass, Japanese honeysuckle (*Lonicera japonica*), mustang grape (*Vitis mustangensis*), and poison ivy (*Toxicodendron radicans*). These areas are located south of the Arkansas River, along Gun Club Road, at Mays Branch, and at Frog Bayou.

- **Herbaceous** habitats are areas dominated by herbaceous vegetation with no, or very limited, woody vegetation present. Dominant species observed included bermudagrass, common persimmon, eastern gamagrass (*Tripsacum dactyloides*), foxtail fescue (*Vulpia myuros*), Frank's sedge (*Carex frankii*), Japanese honeysuckle, knotroot bristlegrass, possumhaw, purpletop tridens (*Tridens flavus*), rabbitfoot clover (*Trifolium arvense*), rosette panicgrass, sawtooth blackberry, Virginia creeper (*Parthenocissus quinquefolia*), and wrinkleleaf goldenrod (*Solidago rugosa*). This area is located north of the Arkansas River.
- **Sapling/Shrub** habitats are areas with woody vegetation with a DBH less than 3-inches and greater than or equal to 3.28 feet tall. These are generally the same species as what is found in the forested habitats. These areas are located immediately south and north of the Arkansas River and between the levee and Gun Club Road.
- **Stream** habitats are linear water features that are contained within a defined channel. The streams may be ephemeral, intermittent, or perennial in nature. Vegetation along the edge of these features may consist of various herbaceous and woody species. These areas are located throughout the Section 408 study area.
- **Open Water** habitats are impoundments and are primarily ponds or small lakes. These type of features have been excavated in upland areas and are not connected to stream. They rely on overland runoff. Vegetation around the edge of these features may consist of various herbaceous and woody species. There is one open water feature located within the Section 408 study area and it is a pond located north of Frog Bayou.
- **Wetland** habitats are areas dominated by hydrophytic vegetation. Areas of emergent wetlands contain no, or very limited, woody vegetation. Dominant species observed in emergent wetlands included various sedge species (*Carex spp.*), false nettle (*Boehmeria cylindrica*), rice cutgrass (*Leersia oryzoides*), dotted smartweed (*Polygonum punctatum*), Japanese stiltgrass (*Microstegium vimineum*), floating primrose-willow (*Ludwigia peploides*), and swamp smartweed (*Polygonum hydropiperoides*). Woody vegetation consisted of boxelder, silver maple, and water oak. Dominant species observed in forested wetland areas included American persimmon, possumhaw, roughleaf dogwood (*Cornus drummondii*), and cottonwood. Dominant herbaceous species consist of Virginia wildrye (*Elymus virginicus*) and true sedges (*Carex sp.*). Dominant vine species consist of muscadine (*Vitis rotundifolia*). These areas are located throughout the Section 408 study area.

Table 3-6 provides the acreage amounts of the habitat types within the Section 408 study area and these areas are shown on **Figure 3-7**, **Figure 3-8**, and **Figure 3-9**.

Table 3-6: Habitat and General Land Use Area Within the Section 408 Study Area

Total Acres	Developed (Acres)	Agriculture (Acres)	Forest (Acres)	Herbaceous (Acres)	Sapling/ Shrub (Acres)	Streams (Acres/Linear Feet)	Open Water Features (Acres)	Wetlands (Acres)
203.3	2.37	19.85	119.76	12.27	2.14	17.85/9,661	0.74	17.03

Note: Quantification of streams, open water features, and wetlands provided by other disciplines who conducted wetland delineations in the summer of 2021, 2022, and 2023. Source: Project Team, 2022

Modifications and Impacts

The construction of Interstate 49 would require permanent and temporary impacts to the existing habitats. The following activities would result in permanent and temporary modifications within the project footprint.

- **Bridge Decks** –These are new bridges that would be constructed as part of the proposed project. Due to shading of the bridge decks, it is not known how much of the area under the bridge decks would be revegetated and would allow vegetation to grow after construction is complete.
- **Bridge Clearing** – This is the area that would be cleared outside of the bridge deck for construction activities and long-term maintenance access. It is estimated that an area extending 50 feet parallel to and outside of the bridge deck (on both sides) would be cleared for construction. The area would be revegetated according to ARDOT standards after construction. In the forested areas it is not known how much of the area would be allowed to become reforested.
- **Grading/Landscaping** – This the area that would be graded (fill or cut) to form the road base and for drainage. These areas would be cleared of vegetation and then revegetated according to ARDOT standards after construction is complete. Most likely these areas would only contain herbaceous vegetation after construction.
- **New Pavement** –The new pavement extends from edge of shoulder to edge of shoulder to include all areas to be paved.
- **Pavement/Bridge Removal** – These are areas of existing pavement or bridges that would be removed and revegetated.

Water body modifications would be both temporary and permanent in nature. Temporary impacts would result during construction. These impacts would result from temporary construction platforms and crossings constructed to allow construction equipment to cross streams or wetlands within the Section 408 study area. Increased sedimentation during construction may occur and could affect fish and aquatic invertebrates. Any temporary crossing would comply to all applicable Section 404/401/402 permit requirements.

Permanent water body impacts would result from the construction of Interstate 49. These impacts would consist of the placement of bridge columns in larger water bodies such as the Arkansas River and Frog Bayou. Ponds would be filled and culverts would be placed in streams that are not being bridged. Several streams may be re-aligned to flow through constructed drainage ditches through the project footprint before they merge with their existing channels outside of the project footprint.

The removal of existing habitat would result in potential impacts to wildlife. Construction would result in habitat fragmentation and convert existing habitat to herbaceous or sapling/shrub vegetation commonly associated with highway right of way. The wildlife potentially impacted by this project include mammals, birds, insects, mollusks, and fish.

Some mortality would likely occur to species such as reptiles and amphibians that are less mobile during the initial construction. Wildlife species that are unable to adapt to the limited right of way environment, could relocate to suitable surrounding habitats. A detailed analysis of the

threatened and endangered (and candidate) species are included in the Biological Assessment that has been prepared for overall proposed project.

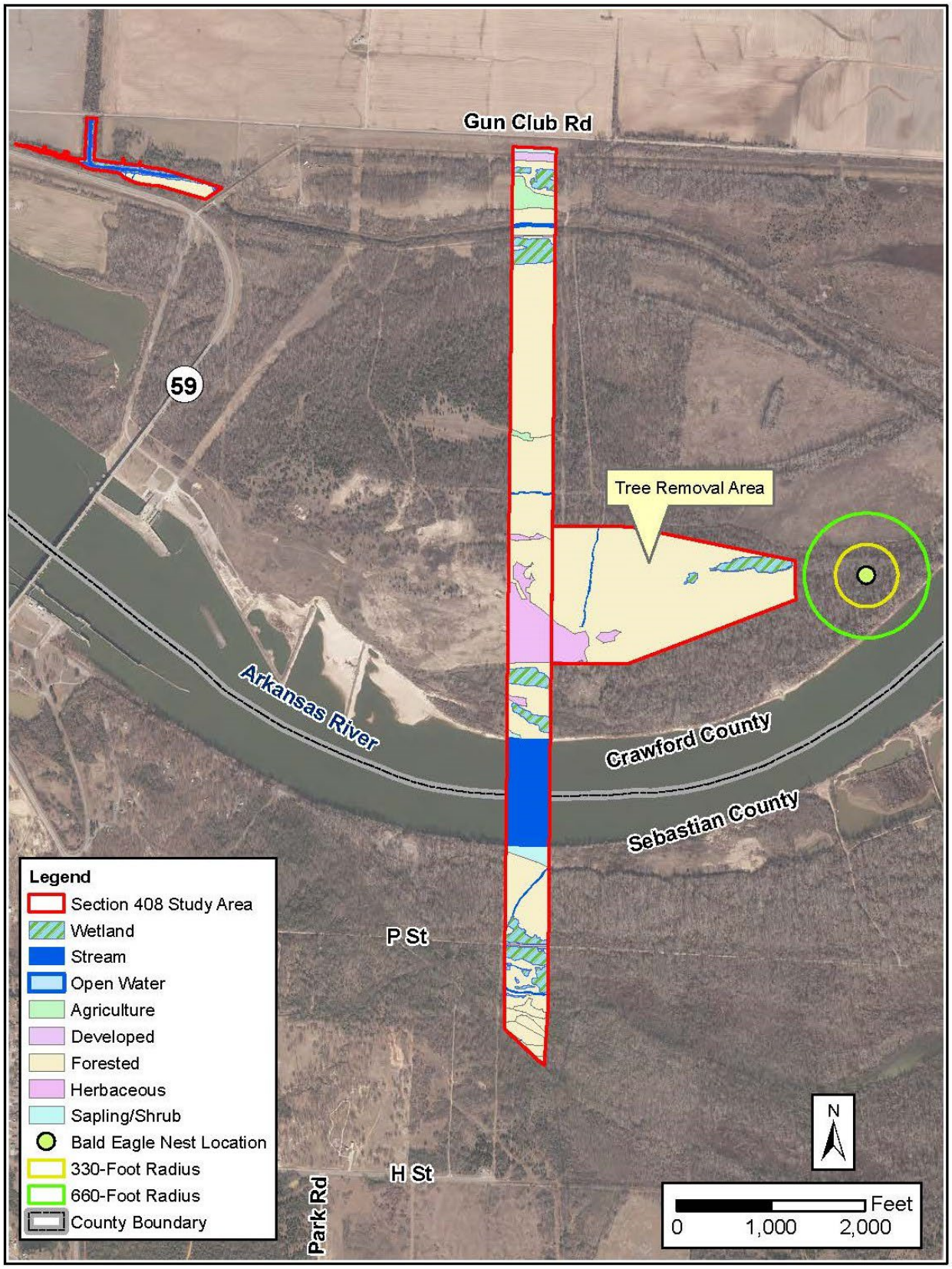
Table 3-7 provides the acreage amounts of impacts to the habitat types. Not all of the existing habitat within the project footprint would be impacted by the construction activities.

Table 3-7: Potential Impacts to Habitat within the Section 408 Study Area

Impact Type	Habitat Type							
	Agriculture (Acres)	Developed (Acres)	Forested (Acres)	Herbaceous (Acres)	Sapling/ Shrub (Acres)	Stream (Acres)	Open Water (Acres)	Wetland (Acre)
Bridge Clearing	0.71	0.36	7.47	1.97	0.43	0.82	0.00	2.28
Bridge Deck	0.49	0.29	6.25	1.60	0.37	2.68	0.00	1.98
Driveway	0.34	0.00	0.03	0.00	0.00	0.00	0.00	0.00
Grading/ Landscaping	4.61	0.02	9.11	0.00	0.00	0.09	0.45	0.70
New Driveway	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
New Pavement	1.51	0.01	6.05	0.00	0.00	0.01	0.15	0.22
Pavement/Bridge Removal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Acreage	**7.66**	**0.68**	**28.91**	**3.57**	**0.80**	**3.61**	**0.60**	**5.18**

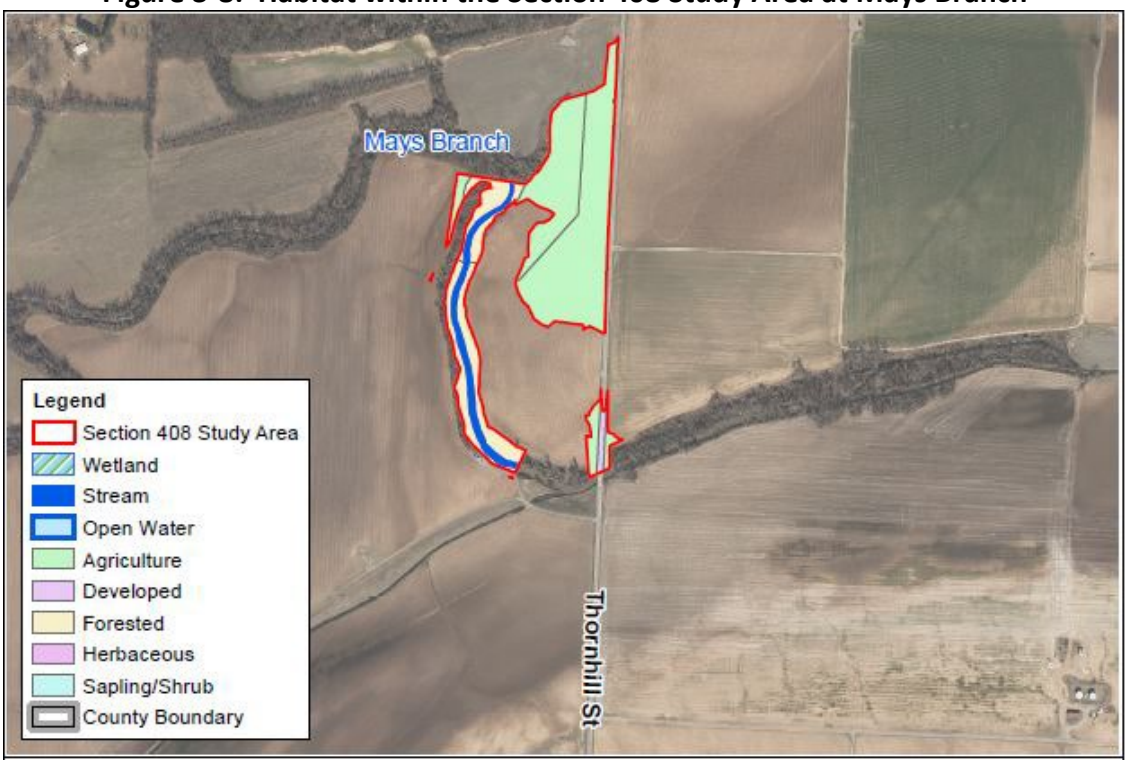
Source: Project Team, 2023

Figure 3-7: Habitat within the Section 408 Study Area at the Arkansas River



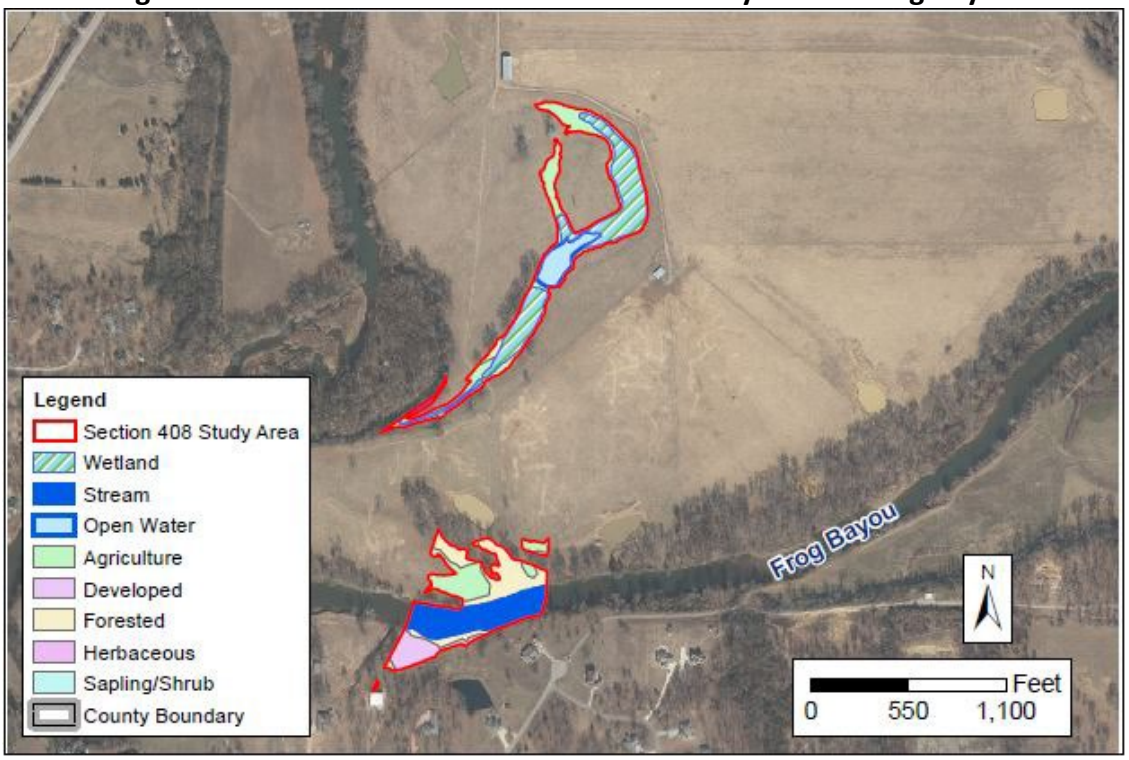
Sources: USGS National Land Cover Database, 2019; Project Team, 2022

Figure 3-8: Habitat within the Section 408 Study Area at Mays Branch



Sources: USGS National Land Cover Database, 2019; Project Team, 2022

Figure 3-9: Habitat within the Section 408 Study Area at Frog Bayou



Sources: USGS National Land Cover Database, 2019; Project Team, 2022

3.15 Essential Fish Habitat

3.15.1 No Action

No impacts to essential fish habitat (EFH) would occur from the No Action alternative.

3.15.2 Requester's Preferred Alternative

The proposed project is not located within a county with tidally influenced waters and would not impact EFH; therefore, no further action is necessary.

3.16 Invasive Species

Executive Order (EO) 13112 on Invasive Species became effective on February 3, 1999. It directs federal agencies to prevent the introduction and control the spread of invasive species. Invasive species are defined by the EO as "an alien species whose introduction does or is likely to cause economic or environmental harm or harm to human health."

3.16.1 No Action

No impacts from the planting of invasive species would occur from the No-Action alternative.

3.16.2 Requester's Preferred Alternative

The proposed project is subject to and will comply with federal EO 13112 on Invasive Species for federal properties. During construction, efforts would be made to avoid and minimize the disturbance of soils and existing vegetation within the project footprint. Any area that is disturbed would be revegetated as soon as possible, according to ARDOT specifications. Furthermore, BMPs would be used to prevent and control any encroachment of invasive species. In conclusion, while the re-evaluation of impacts was based on updated guidance, no adverse impacts are anticipated.

3.17 Beneficial Landscaping

The Executive Memorandum (EM) on Environmentally and Economically Beneficial Landscaping, effective April 26, 1994, requires environmentally and economically beneficial landscaping practices to be considered at federal facilities and for federally funded projects.

3.17.1 No Action

No impacts to landscaping would occur from the No-Action alternative.

3.17.2 Requester's Preferred Alternative

The proposed project is subject to and will comply with the EM by revegetating disturbed areas in accordance with ARDOT specifications. Accordingly, adverse impacts are not anticipated.

Chapter 4 - Indirect Impacts

The indirect impacts analysis follows guidance including but not limited to FHWA *Questions and Answers Regarding the Consideration of Indirect and Cumulative Impacts in the NEPA Process* (2003), National Cooperative Highway Research Program (NCHRP) Report 466 *Desk Reference for Estimating the Indirect Effects of Proposed Transportation Projects* (2002), and the Texas Department of Transportation's (TxDOT) *Guidance: Indirect Impacts Analysis* (2019).

4.1 No Action

Indirect impacts are not anticipated under the No-Action alternative.

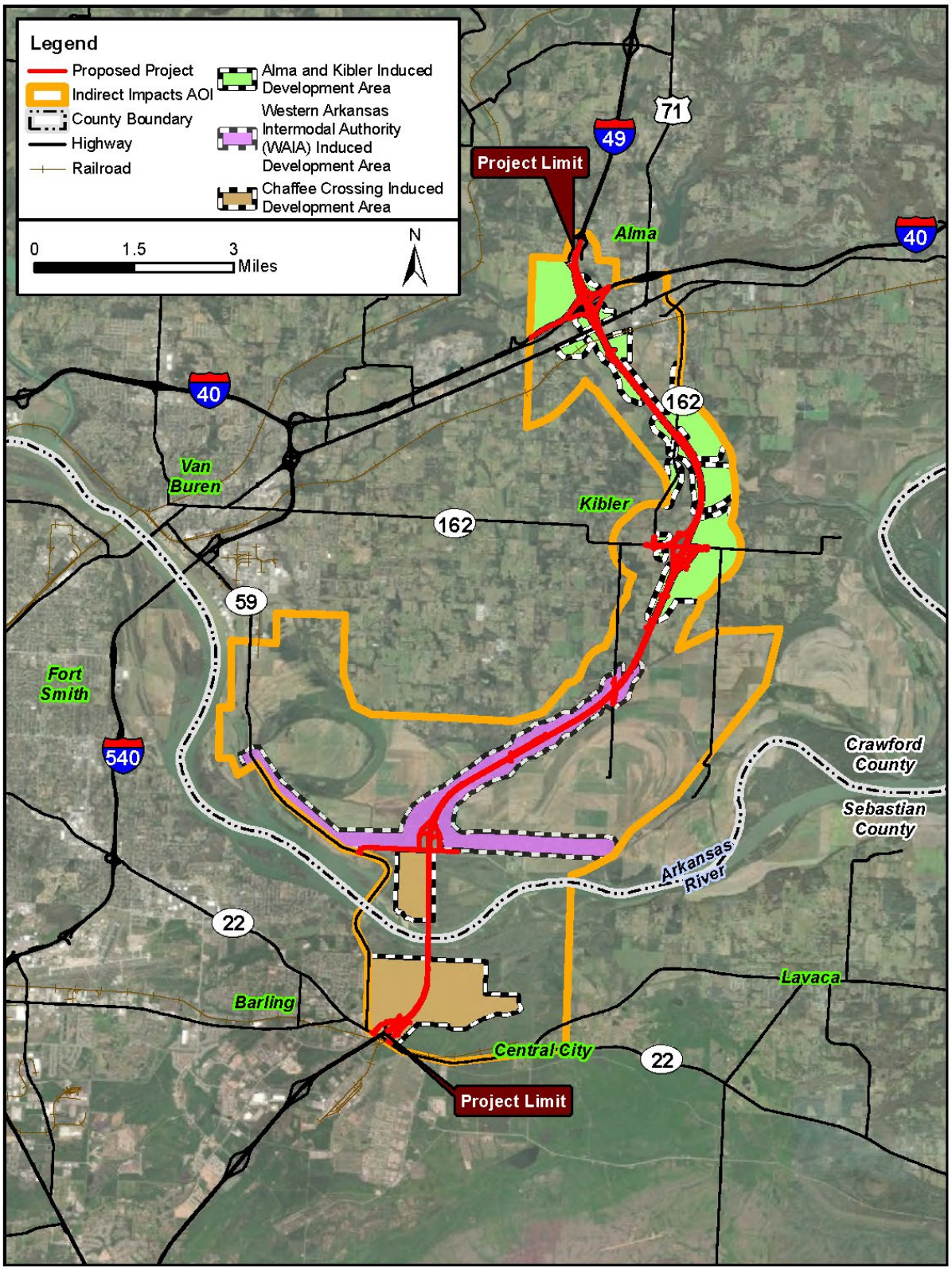
4.2 Requester's Preferred Alternative

4.2.1 Area of Influence

The basic objective in creating an indirect impacts area of influence (AOI) is to delineate a study area that circumscribes locations where project-related induced growth could reasonably be expected to occur. The AOI for the proposed project was established with a combined methodology of using the location of major parallel roadways, major planned developments such as the Western Arkansas Intermodal Authority (WAIA) Development Area, and obtaining input from the City of Alma, City of Barling, and the Frontier Metropolitan Planning Organization (MPO) planners. The AOI, shown in **Figure 4-1**, encompasses approximately 23,942 acres and is demarcated by the following boundaries:

- **Northern Boundary:** Interstate 40 and adjacent property boundaries
- **Eastern Boundary:** Highway 162 and the eastern limits of the proposed WAIA Development Area
- **Southern Boundary:** Highway 22 and adjacent property boundaries
- **Western Boundary:** Sunnyside Road and the western limits of the proposed WAIA Development Area.

Figure 4-1: Area of Influence (AOI) and Areas of Induced Development



Source: Input from local planners, 2022; Project Team, 2022

4.2.2 Areas of Induced Development

Input from local planners was sought to assist with identifying areas where project-induced growth impacts would likely occur. These planners have first-hand knowledge regarding current and future land use plans, property values, forecasted growth, supply and demand, other market factors affecting the cities and their extra territorial jurisdictions, and applicable public policies that would promote and regulate future development. City planning experts were asked to identify areas where the amount, type (e.g., commercial, residential, industrial, etc.), location, or timing of development would be different because of the proposed project.

City planners and developers indicated that it would be likely that three areas would be developed or redeveloped following construction of the proposed project: (1) Chaffee Crossing, (2) the WAIA development area, and (3) the Cities of Kibler, Alma, and unincorporated areas. The acreages of development and redevelopment within the AOI are described in **Table 4-1** and shown in **Figure 4-1**.

Table 4-1: Types of Induced Development by Development Area

Induced Development Areas	Induced Commercial/ Retail (acres)	Induced Industrial/ Warehouse (acres)	Induced Single-Family Residential (Acres)	Induced Mixed-Use (acres)	Total Induced Acres
Chaffee Crossing	116	52	234	59	461
WAIA Development Area	-	1978	-	-	1,978
Kibler/Alma	867	537	857	-	2,261
Total Acreage	**983**	**2,567**	**1,091**	**59**	**4,700**

Source: Input from local planners, 2022; Project Team, 2022

4.2.3 Resources Subject to Induced Growth Impacts

Floodplains

FEMA maintains flood insurance rate maps (FIRMs). FEMA's National Flood Hazard Layer (NFHL) Viewer and floodplain GIS data for Crawford and Sebastian counties were reviewed to evaluate the location of any mapped floodplains in relation to aquatic resources located within the AOI. Available flood hazard areas downloaded in March 2022 from the Arkansas GIS Office and FEMA FIRM Panels were reviewed to determine flood zones. Approximately 10,000 acres of FEMA 100-year floodplains are located within the project AOI.

Impacts to floodplains from induced growth were assessed based on knowledge of the anticipated locations and intensity of induced development overlaid on the FEMA FIRMs to calculate acreage of floodplain likely impacted by the Interstate 49 induced growth. **Table 4-2** provides total anticipated induced growth and acreage of floodplain impacts anticipated as a result of the induced growth within the three induced development areas.

Table 4-2: Anticipated Induced Growth Impacts to Floodplains

Induced Growth Areas	Anticipated Induced Growth within Floodplain (Acres)
Chaffee Crossing	0
WAIA Development Area	220
Kibler/Alma	1,200
Total Acreage	**1,420**

Sources: FEMA NFHL Viewer and GIS data for Crawford and Sebastian counties

ARDOT self-regulates on projects that cross regulated floodplains. ARDOT reviews plans for compliance with FEMA requirements. ARDOT also coordinates with the local floodplain administrators when those minimums cannot be met and a Conditional Letter of Map Revision (CLOMR)/Letter of Map Revision (LOMR) is necessary.

Impacts to floodplains from project induced growth impacts are subject primarily to regulation by city, county, and state governments, which guide the type and location of new development.

Water and Wetland Features

Impacts to all water and wetland features, regardless of whether the feature would be regulated by the USACE, from induced growth were assessed based on knowledge of the project area gained during the field reconnaissance and analysis of aerial photographs and were quantified using National Wetland Inventory (NWI) GIS data. Within the AOI, there are approximately 1,273 acres of water features and 2,895 acres of wetland features. Induced impacts to water and wetland features are anticipated in each of the induced growth areas. Details of the specific acreages of water and wetland impacts for each area are provided in **Table 4-3**.

Table 4-3: Anticipated Induced Growth Impacts to Water and Wetland Features

Induced Growth Areas	Anticipated Induced Growth Impacts to Water Features (Approximate Acres)	Anticipated Induced Growth Impacts to Wetland Features (Approximate Acres)
Chaffee Crossing	1	6
WAIA Development Area	20	14
Kibler/Alma	41	94
Total Acreage	**62**	**114**

Sources: National Wetland Inventory GIS Data and Project Team, 2022

Water and wetland features considered jurisdictional are regulated by the USACE requiring Section 404 permitting and possible mitigation. Section 404 permit applications for projects that impact wetlands are submitted to the USACE, but are also subject to Arkansas Division of Environmental Quality Section 401 Water Quality Certification. Arkansas does not have any state-specific wetlands regulations. If any of the developments in the AOIs utilize federal money (i.e. considered a federal project), then Executive Order 11990 – Protection of Wetlands would apply.

Wildlife and Habitat

Impacts to wildlife habitat from induced growth were assessed based GIS land cover data, as outlined in **Table 4-4**.

Table 4-4: Anticipated Induced Growth Impacts to Vegetation and Wildlife Habitat

Land Cover	Acres
Barren Land	13
Cultivated Crops	1,845
Developed	262
Forest	497
Hay/Pasture	1,867
Herbaceous	66
Open Water	29
Shrub/Scrub	26
Wetlands	91
Total Acreage	**4,696**

Source: USGS National Land Cover Database, 2019

As a new location project, habitat fragmentation is anticipated. project-induced development is anticipated primarily adjacent to the proposed project, thereby widening the area of anticipated habitat fragmentation. Impacts to wildlife habitat from project-induced growth impacts are subject primarily to regulation by city and county governments, which guide the type and location of new development. Generally, municipal land development policies focus on health and safety rather than preservation of ecological values. To the extent that local policies require tree preservation and landscaping as part of site development, mitigation of impacts to wildlife habitat may occur due to such regulations and to achieve the aesthetic goals of property owners.

Important Farmland

Impacts to prime farmland from induced growth were assessed based on knowledge of the anticipated locations and intensity of induced development overlaid on soils GIS data downloaded from the USDA NRCS U.S. Department of Agriculture Geospatial Data Gateway and Web Soil Survey to calculate acreage of prime farmland likely impacted by the Interstate 49 induced growth. **Table 4-5** provides total anticipated induced growth and acreage of prime farmland impacts anticipated as a result of the induced growth within the three induced development areas.

Table 4-5: Anticipated Induced Growth Impacts to Prime Farmland

Induced Growth Areas	Anticipated Induced Growth (Acres)
Chaffee Crossing	912
WAIA Development Area	1,975
Kibler/Alma	1,689
Total Acreage	**4,576**

Sources: USDA NRCAS Geospatial Data Gateway Soils Data and Project Team, 2022

This project is subject to the FPPA, and accordingly, a Farmland Conversion Impact Rating Form has been completed and coordination with the NRCS is required. The FPPA does not cover private construction projects. Impacts to important farmland from project-induced growth impacts are subject primarily to regulation by city and county governments, which guide the type and location of new development.

Chapter 5 - Cumulative Impacts

Council on Environmental Quality regulations (40 CFR § 1508.7) defines cumulative impacts (i.e., effects) as "the impact on the environment which results from the incremental impact of the proposed action when added to other past, present and reasonably foreseeable future actions." The purpose of a cumulative impacts analysis is to view the direct and indirect impacts of the proposed project within the larger context of past, present, and future activities that are independent of the proposed project, but which are likely to affect the same resources in the future. This approach allows the evaluation of the incremental impacts of the proposed project in light of the overall health and abundance of selected resources. The evaluation process for each resource considered may be expressed in shorthand form as follows:

BASELINE CONDITION	+	FUTURE EFFECTS	+	PROJECT IMPACTS	=	CUMULATIVE IMPACTS
(historical and current)		(expected projects)		(direct and indirect)		

5.1 No Action

Cumulative impacts are not anticipated under the No-Action alternative.

5.2 Requester's Preferred Alternative

All of the resource categories considered in this environmental document are candidates for cumulative impacts analysis. The initial step of the cumulative impacts analysis uses information from the evaluation of direct and indirect impacts in the selection of environmental resources that should be evaluated for cumulative impacts. FHWA guidance states: "If a project will not cause direct or indirect impacts on a resource, it will not contribute to a cumulative impact on that resource." CEQ guidance recommends focusing on key resource issues of national, regional, or local significance. To identify potential issues, the resource is considered whether it is protected by legislation or resource management plans; ecologically important; culturally important; economically important; or important to the well-being of a human community.

Applying the above criteria, the resources or environmental issues considered for the cumulative impacts analysis are listed in **Table 5-1**. As recommended by CEQ guidance, specific indicators of each resource's condition are identified and shown. The use of indicators of a resource's health, abundance, and/or integrity are helpful tools in formulating quantitative or qualitative metrics for characterizing overall impacts to resources. These indicators are also key aspects of each resource that have already been evaluated in terms of the project's direct and indirect impacts and facilitate greater objectivity in the analysis of cumulative impacts.

Table 5-1: Resources and Topics considered for the Cumulative Impacts Analysis

Resource or Topic Evaluated	CEQ Criteria			Is the Resource Included for the Cumulative Impacts Analysis?	Explanation for Including or Excluding Key issues from Cumulative Impacts Analysis
	Would the project have substantial direct impacts on the resource?	Would the project have substantial indirect impacts on the resource?	Is the resource in poor or declining health?		
Cultural Resources					
Archeological Resources	No	No	Yes	No	Impacts covered under 1997 PA.
Historic Resources	Yes	Yes	No	No	No substantial direct or indirect impacts.
Water Resources					
Waters of the U.S., including Wetlands	Yes	Yes	No	Yes	Substantial direct and indirect impacts.
Floodplains	Yes	Yes	No	Yes	Substantial direct and indirect impacts.
Water Quality	No	No	No	No	No substantial direct or indirect impacts.
Biological Resources					
Threatened or Endangered Species	No	No	Yes	No	No substantial direct or indirect impacts. While populations of certain species are in decline, the project is not anticipated to have substantial impact on those species.
Vegetation and Wildlife Habitat	Yes	Yes	Yes	Yes	Substantial direct and indirect impacts. Resource in declining health.
Prime Farmland	Yes	Yes	No	Yes	Substantial direct and indirect impacts.
Socio-Economic Resources					
Community Cohesion	No	No	No	No	No substantial direct or indirect impacts.
EJ Populations	No	No	No	No	No substantial direct or indirect impacts.
LEP Populations	No	No	No	No	No substantial direct or indirect impacts.
Public Facilities and Services	No	No	No	No	No substantial direct or indirect impacts.
Visual	No	No	No	No	No substantial direct or indirect impacts.
Section 4(f) Property – Springhill	No	No	No	No	No substantial direct or indirect impacts.

Resource or Topic Evaluated	CEQ Criteria			Is the Resource Included for the Cumulative Impacts Analysis?	Explanation for Including or Excluding Key issues from Cumulative Impacts Analysis
	Would the project have substantial direct impacts on the resource?	Would the project have substantial indirect impacts on the resource?	Is the resource in poor or declining health?		
Park					
Other Issues					
Air Quality	No	No	No	No	No substantial direct or indirect impacts.
Traffic Noise	No	No	No	No	No substantial direct or indirect impacts.
Hazardous Materials	No	No	No	No	No substantial direct or indirect impacts.

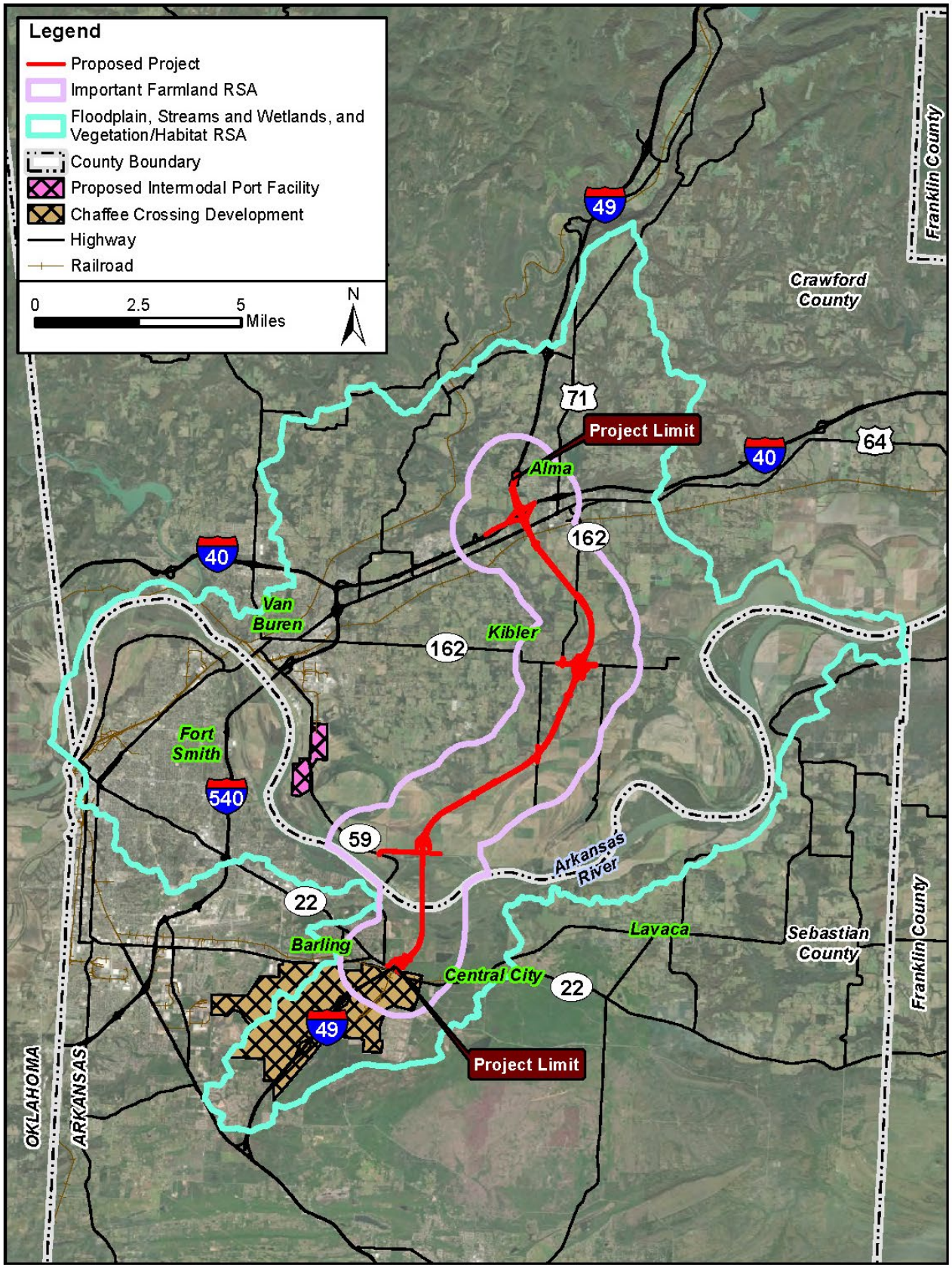
Source: Project Team, 2022

5.2.1 Resource Study Areas

The Resource Study Area (RSA) for floodplains, waters and wetlands, and vegetation and wildlife habitat was delineated using the watershed units crossed by the proposed project, as shown in **Figure 5-1.** The RSA contains approximately 129,348 acres. The temporal limits for these resources were determined to be 1980 to 2045. The temporal start date was determined based on growth and development within the RSA increasing in earnest in 1980. The ending temporal boundary of 2045 was selected to correlate with the horizon year of the regional MTP.

The RSA for assessing important farmland impacts consists of a 1-mile buffer from the project footprint, as shown in **Figure 5-1**. In accordance with the FPPA, this RSA corresponds with the boundary required on the NRCS's farmland assessment form - *NRCS-CPA-106 – Farmland Conversion Impact Rating for Corridor Type Projects.* The RSA includes 26,399 acres, of which 62% (16,320 acres) is prime farmland. The temporal start date was determined based on growth and development within the RSA increasing in earnest in 1980. The ending temporal boundary of 2045 was selected to correlate with the horizon year of the regional MTP.

Figure 5-1: Resource Study Areas and Reasonably Foreseeable Actions



Source: Project Team, 2022

5.2.2 Past, Present and Reasonably Foreseeable Actions

As shown in **Figure 5-1**, major past, present, and reasonably foreseeable developments within the two RSAs include the Intermodal Port facility along the Arkansas River and a portion of the Chaffee Crossing Development located at the southern project limits. No other reasonably foreseeable actions were determined by evaluating land use and local management plans from the local municipalities.

5.2.3 Resources Subject to Cumulative Impacts

Floodplains

Approximately 42,738 acres of floodplain are located within the RSA. Cumulative impacts to floodplains, outlined in **Table 5-2**, account for 6% of the floodplains in the RSA. Considering the minor percentage of impact and assuming appropriate implementation of regulatory control strategies and policies, the proposed project would not contribute substantial cumulative impacts to the floodplains in the RSA.

Table 5-2: Cumulative Impacts to Floodplains

Facility/Development	Floodplain Impacts (Acres)
Interstate 49 Direct Impacts	192
Interstate 49 Indirect Impacts	1,420
Past, Present, and Reasonably Foreseeable Actions	733
Total Cumulative Impacts	**2,345**

Source: Project Team, 2022

Water and Wetland Features

Using NWI data, approximately 9,162 acres of wetlands and 11,553 acres of water features are within the RSA. Cumulative impacts to waters and wetlands are outlined in **Table 5-3**. Cumulative impacts to wetlands would account for 3% of the wetlands in the RSA and cumulative impacts to waters would account for 1% of the water features in the RSA. Considering the minor percentage of impact and assuming appropriate implementation of regulatory control strategies and policies, the proposed project would not contribute substantial cumulative impacts to the water resources in the RSA.

Table 5-3: Cumulative Impacts to Water and Wetland Features

Facility/Development	Waters Impacts (Acres)	Wetland Impacts (Acres)
Interstate 49 Direct Impacts	1	6
Interstate 49 Indirect Impacts	62	114
Past, Present, and Reasonably Foreseeable Actions	72	126
Total Cumulative Impacts	**135**	**246**

Source: Project Team, 2022

Wildlife and Habitat

The RSA contains approximately 100,786 acres of potential habitat (excluded developed areas). Cumulative impacts to vegetation and habitat, outlined in **Table 5-4**, would account for 8% of the vegetation and habitat in the RSA. Considering the minor percentage of impact and assuming appropriate implementation of regulatory control strategies and policies, the proposed project would not contribute substantial cumulative impacts to vegetation and habitat in the RSA.

Table 5-4: Cumulative Impacts to Vegetation and Wildlife Habitat

Facility/Development	Vegetation and Wildlife Habitat Impacts (Acres)
Interstate 49 Direct Impacts	50*
Interstate 49 Indirect Impacts	4,434*
Past, Present, and Reasonably Foreseeable Actions	3,789*
Total Cumulative Impacts	**8,273***

Notes:
** Excludes developed land use.*
Sources: Direct Impacts - Field Verification, 2022; Indirect Impacts and Past, Present, and Reasonably Foreseeable Actions – USGS National Land Cover Database, 2019
Source: Project Team, 2022

Important Farmland

The RSA includes approximately 16,320 acres of important farmland. Cumulative impacts to important farmland, outlined in **Table 5-5**, account for 30% of the important farmland within the RSA. Given the predominance of important farmland within the RSA (62%), it is not anticipated that the proposed project would contribute substantial cumulative impacts to the important farmland in the RSA. As evaluated in the FEIS, shifting the Selected Alignment to the east or west would still impact important farmland. Likewise, it is anticipated that any induced development and/or reasonably foreseeable developments would still impact important farmland.

Table 5-5: Cumulative Impacts to Important Farmland

Facility/Development	Important Farmland Impacts (Acres)
Interstate 49 Direct Impacts	45
Interstate 49 Indirect Impacts	4,576
Past, Present, and Reasonably Foreseeable Actions	275
Total Cumulative Impacts	**4,896**

Source: Project Team, 2022

Chapter 6 – Commitments

6.1 Streams and Wetlands

The proposed project is in the service area of four mitigation banks with available mitigation credits. These are the Hartman Bottoms Mitigation Bank, Cadron Creek Mitigation Bank, Dutch Creek Mitigation Bank, and Gum Log Creek Mitigation Bank. The final mitigation credits would be determined during the Section 404 permitting process and the mitigation banks that would be used would be determined based on their available credits at that time. Construction should be allowed under the terms of a Section 404 Standard (Individual) Permit.

6.2 Water Quality

As this project requires a Section 404 Standard (Individual) Permit, ARDOT will request individual water quality certification from DEQ as part of the USACE 404 Permit public notice process. The Resident Engineer will ensure the Contractor understands the terms and requirements for protection of water quality.

The proposed project meets the definition of a "large construction site" and a SWPPP must be prepared and submitted to DEQ along with a Notice of Intent (NOI), and additional supporting documentation. When the SWPPP and NOI are deemed complete, DEQ will issue a Notice of Coverage (NOC). A Notice of Termination (NOT) must be submitted to DEQ when the project is completed and stabilized to end permit coverage.

6.3 Protected Species

Per USFWS concurrence presented in **Appendix A**, should any of the following occur, the Arkansas Ecological Services Field Office will be contacted and/or a new IPaC will be assessed if: the scope, timing, duration, or location of the proposed project changes; new information reveals the action may affect listed species or designated critical habitat; and/or a new species is listed or critical habitat designated.

6.4 Tree Clearing Area

To reduce the risk of a 100-year water surface rise within the floodplain at the Arkansas River, removal of trees is needed, and a tree removal area has been identified (**Figure 3-4** and **Figure 3-7**). This area is owned by Fort Chaffee. Coordination with Fort Chaffee and the USACE through the Section 408 process is ongoing, as is coordination to determine the exact extent of tree clearing necessary. All timber to be removed from federal land will be purchased based on a fair market appraisal conducted by the federal land management agency.

6.5 Springhill Park

Commitments described in the 1997 FEIS remain applicable to the proposed project and are being coordinated with the USACE. **Table 6-1** presents the commitments established in the

1997 FEIS, and how that commitment would be implemented.

Table 6-1: Implementation of 1997 FEIS Springhill Park Section 4(f) Mitigation Measures

1997 FEIS Section 4(f) Mitigative Measure	How the Mitigative Measure Would be Implemented
(1) Four (4) camp sites and water fountain (not in use) would be relocated to another section within Springhill Park and the direction of the USACE to mitigate for potential noise impacts.	The 4 camp sites and water fountain would be relocated at a location to be determined by the USACE.
(2) Access to all existing park facilities would be maintained during all construction phases.	Access to all existing park facilities except Springhill Park Trail would be maintained, as the majority of the park facilities are located west of the project footprint. Springhill Park Trail was constructed subsequent to the FEIS and is discussed in **Section 7.2**.
(3) The park would be entirely bridged so that the only land used in it is for the bridge substructure.	The park would be entirely bridged. There would be a total of 8 bridge bents, with no more than 4 bridge columns per bent for maximum total of 32 bridge columns within Springhill Park.
(4) Signing on the proposed highway directing the public to the park would be provided at the proposed SH 22 interchange or the SH 59 connector interchange north of the river. Signing would be provided from both directions. Signing would also be provided at appropriate state highways.	Signing would be provided in accordance with the USACE's recommended locations.
(5) A closed drainage system would be provided as the bridge crosses the park in order to protect the public from accidental spills.	A closed drainage system would be provided on the bridge over the park.
(6) Screens or other measures to protect the public from objects thrown or falling from the bridge would be provided.	Fencing would be provided on the bridge barriers over the park.
(7) The highway may change the future usage of the park from fishermen to travelers and vacationers. As a result, the USACE must maintain their ability to further develop the park on both sides of the proposed highway. The main paved road through the park which currently ends at the cul-de-sac would be relocated, if necessary, so that it may be extended east of the proposed highway.	The bridge substructure over the park would not impact the existing cul-de-sac.
(8) Any preconstruction activities, such as core borings, must receive prior right of entry approval by the USACE.	Right of entry approval would be obtained from the USACE for all preconstruction activities.
(9) Prior to bridge construction, fencing would be installed to prevent public access to the construction area. A gate would be provided in the fence, preferably near the cul-de-sac for USACE access to the undeveloped area of the park.	Fencing would be installed for the construction area prior to bridge construction. Signage would also be placed to identify the proposed project, as well as any safety signs required by the USACE.
(10) Access to the construction site to be used by construction vehicles, construction workers, materials deliveries and any other construction-related activities would not be through the developed areas of the park. Contractor access roads and work areas would be subject to USACE approval.	Developed areas of the park would be avoided for contractor access. Per USACE approval, contractor access is anticipated from P Street on the south side of the park and from the river on the north side of the park.
(11) The cleared area for the bridge across the park would be minimized.	All trees that do not directly interfere with the proposed construction would be avoided. Care and discretion would be used to ensure that trees not removed shall also be

1997 FEIS Section 4(f) Mitigative Measure	How the Mitigative Measure Would be Implemented
	avoided or harm would be minimized to the extent possible during the construction operations.
(12) Access for mowing would be of minimal width and gated from the public.	Access for mowing would be of minimal width. Coordination related to mowing access is ongoing with the USACE.
(13) All areas outside of the permanent easement which are disturbed during construction activities would be restored to their previous grades and revegetated with native species. Disturbed areas within the easement would be restored and seeded. Non-suitable materials from substructure excavation would be disposed of outside of the park in accordance with other disposal requirements.	It is anticipated that the permanent easement would be large enough for all construction activities. Disturbed areas within the easement would be restored and seeded with native species and per USACE guidelines.
(14) Any temporary items constructed for bridge erection would be removed in their entirety.	All temporary items constructed for bridge erection would be removed in their entirety and would be part of a temporary construction license through the USACE.

Sources: Section 4(f) Evaluation from FEIS U.S. 71 Relocation Dequeen to Interstate 40 (1997) and Project Team Meeting with the USACE (December 2, 2021)

Since the 1997 FEIS, impacts to Springhill Park Trail were identified. Access to the trail in the construction zone would only be closed during construction of the proposed bridge to ensure the safety of trail users. Appropriate signage alerting trail users of the closure would be posted. In addition, impacts to permanent right-of-way would also be mitigated, as all trees that do not directly interfere with the proposed construction would be avoided and disturbed areas would be restored and seeded with native species per USACE guidance. Access to the park in the construction zone would be maintained for the USACE and fenced construction area signage would be provided.

In addition, the following mitigation measures would also be implemented per the request of the USACE (correspondence located in **Appendix A**):

- The relocation of four impacted campsites to an area near the E section restroom. These sites will be utilized for park volunteers and should be paved with graveled or concrete living areas. The sites should also be full hookup with water, 50-amp electric service, and sewer. Utilities are available at the nearby E section restroom.

e. Resurface all paved roadways, parking areas, and campsites throughout the park.
f. Destruction, removal, and replacement of the B section restroom. The replacement should be a “Four Pack” of family restroom/shower units. An example of this type of facility is the CXT Navajo model.
g. Upgrade the 16 campsites in A section to 50-amp electric service.

All timber to be removed from federal land will be purchased based on a fair market appraisal conducted by the federal land management agency.

Chapter 7 – Public Involvement

7.1 Previous Public Involvement

7.1.1 FEIS Public Involvement

As recorded in the 1997 FEIS, previous public involvement included multiple public meetings and hearings from 1995 to 1997. Those involved in these efforts included the public, local officials, and resource and regulatory agencies. A Notice of Intent officially initiating the project was published in the Federal Register on July 18, 1995.

The 1997 FEIS and associated public involvement encompassed the 125-mile corridor. There were 19 public meetings, 8 local officials' meetings, 18 agency meetings, and 5 public hearings held from 1995 to 1997. These recorded public involvement efforts included 6 public meetings, 2 public officials' meetings, and 1 public hearing held within the 14-mile segment of the re-evaluation. The meetings informed all involved communities of the project, discussed the various steps in the study and schedule, and provided opportunity for public comment. Meetings were conducted over a series of months so that appropriate focus could be placed on the southern, middle, and northern reaches of the project. For a given reach, public meetings and local officials meetings were held in conjunction with a field trip with state and federal agencies that followed the meetings. Public meetings were held, and because of their workshop style, could be attended at any time throughout the evening. Further, informational materials were provided to city halls and public libraries throughout the study area for residents to review at their convenience.

Meetings were publicized through announcements at elementary schools in an effort to involve minorities and reach every segment of the involved population. Dates, locations, and items for the public meetings were widely publicized through numerous additional media, and meeting announcements were sent directly to all persons who attended the previous public meetings.

7.1.2 Alternative Delivery Study Public Involvement

During 2017 and 2018, additional public involvement was conducted to provide updates on an Alternative Delivery Study for Interstate 49 extending from Highway 22 to Interstate 40. These meetings included two stakeholder meetings and one public meeting, as outlined in **Table 7-1**.

Table 7-1: 2017 – 2018 Public Involvement Meetings

Date	Location	Meeting Type
December 5, 2017	Janet Huckabee Nature Center, Fort Smith, AR	Stakeholder Meeting
March 29, 2018	Janet Huckabee Nature Center, Fort Smith, AR	Stakeholder Meeting
April 26, 2018	Sacred Heart of Mary Church, Barling AR	Public Meeting

The meetings were publicized through announcements in local newspapers, including minority newspapers, to reach all populations that may be affected by the proposed project. Dates, locations, and items for the public meetings were publicized through numerous additional media,

and meeting announcements were sent directly to all persons who attended the previous public meetings that provided contact information, as well as appropriate public officials.

7.1.3 Re-evaluation Public Involvement

Public involvement during the re-evaluation included two periods of public outreach during 2022, detailed as Public Involvement Period 1 and Public Involvement Period 2 in **Table 7-2**. Both periods of public involvement included combined virtual and open-house public meetings and meetings for public officials. Information presented during Public Involvement Period 1 included the preliminary design (30% strip map), which was available for public inspection and comment. These outreach efforts, along with a synopsis of the public meeting during Public Involvement Period 1, mirror those conducted during Public Involvement Period 2 and can be viewed on the ARDOT website. Once comments were received, the preliminary design was refined by the project team, and presented for additional comment during Public Involvement Period 2.

Informational materials were provided on the ARDOT website during both public involvement periods for those unable to attend the public meetings.

Table 7-2: 2022 Public Involvement Meetings

Public Involvement Period Dates	Location	Meeting Type
Public Involvement Period 1 March 11, 2022 – April 1, 2022	www.ardot.gov	Virtual Public Meeting
March 17, 2022	First Baptist Church Alma	Public Meeting
March 17, 2022	ARDOT District 4 Headquarters	Public Officials Meeting
Public Involvement Period 2 September 23, 2022 – October 14, 2022	www.ardot.gov	Virtual Public Meeting
September 29, 2022	First Baptist Church Alma	Public Meeting
September 29, 2022	First Baptist Church Alma	Public Officials Meeting

Meetings were advertised in the Southwest Times Record newspaper and announced via Public Service Announcements on a Spanish radio station, La Raza 95.7, during each Public Involvement Period. Dates, locations, and items for the March 17, 2022 public meeting and the September 29, 2022 public meeting were publicized through numerous additional media, including the ARDOT website, and meeting announcements were sent directly to all persons who attended the previous public meetings that provided applicable contact information, as well as appropriate public officials and minority ministers for consideration of announcement to their respective audiences and congregations. For Public Involvement Period 1, flyers were mailed to citizens within and adjacent to the project footprint. A direct mailing system was utilized and included residents and businesses within the southern, middle, and northern reaches of the project. For Public Involvement Period 2, approximately 150 flyers were hand-delivered to residents living within and adjacent to the project footprint. Postcards were mailed to residents living within the southern, middle, and northern reaches of project footprint via the direct mailing service, Arkansas Mailing System. Additionally, for each public meeting held during Public Involvement Period 1 and 2, the following materials were translated into Spanish and made available:

- Public meeting website text
- PowerPoint presentation and video
- Project timeline
- Project fact sheet
- Comment form
- Frequently asked questions

7.2. Public Involvement for Section 408 NEPA Compliance

A public notice soliciting input will serve as the method of involving the public in the Section 408 NEPA compliance.

Chapter 8 – Findings and Conclusions

An FEIS was previously prepared for this project and ROD signed in August 1997. These documents have been reviewed and examined for content, accuracy, and overall scope of work regarding the project. The re-evaluation then examined the current project and the potentially affected environment since the issuance of the ROD. After a thorough review and reconsideration of these documents based on additional environmental studies and approvals, it was determined that all previous findings and decisions remain valid and that no new or additional significant impacts would result from the project. As a cooperating agency, the USACE formally adopts the findings and conclusions of the re-evaluation. Based on this determination, the subject project may continue to proceed.

Appendix A

DEPARTMENT OF THE ARMY
LITTLE ROCK DISTRICT, CORPS OF ENGINEERS
POST OFFICE BOX 867
LITTLE ROCK, ARKANSAS 72203-0867
www.swl.usace.army.mil

July 22, 2021

Regulatory Division

PROJECT NO. **SWL 2021-00223**

Mr. John Fleming
Division Head, Environmental Division
Arkansas Department of Transportation
PO Box 2261
Little Rock, Arkansas 72203-2261

Dear Mr. Fleming:

This is in regard to your June 24, 2021, (copy enclosed) invitation to participate as a cooperating agency with the Federal Highway Administration (FHWA) and Arkansas Department of Transportation (ArDOT), in the re-evaluation of the 1997 Final Environmental Impact Statement (FEIS) for the 13.6-mile segment of the future Interstate 49 located in Crawford and Sebastian Counties. This segment is part of a larger corridor study originally known as the U.S. Highway 71 Relocation Study that extended from DeQueen to Alma. The project would consist of a four-lane highway constructed on new location, beginning at Interstate 40 near Alma and extending southward crossing the Arkansas River at about Navigation Mile 291.5, and ending at State Highway 22 in Barling.

We agree to participate as a cooperating agency and Mr. Johnny McLean, Transportation Program Manager, will be the U.S. Army Corps of Engineers (USACE) primary point of contact. We do recommend that FHWA/ArDOT develop and thoroughly evaluate every potential alternative since the least environmentally damaging most practicable alternative must be selected in accordance with the Environmental Protection Agency's Section 404(b)(1) Guidelines. Measures to avoid and minimize impacts to waters of the U.S. must be evaluated for each alternative. Sensitive areas might include the Frog Bayou and Arkansas River areas. We do anticipate extensive coordination with the USACE due to potential impacts to the McClellan-Kerr Arkansas River Navigation System and any adjacent levees, parks, flowage easements, etc.

We look forward to participating in the re-evaluation of the EIS and commenting on the proposed alignment. If you have any questions, please contact Mr. McLean at 501-340-1382, or Johnny.L.McLean@usace.army.mil.

Sincerely,

Sarah Chitwood
Chief, Regulatory Division

Enclosures

Copy Furnished:
Arkansas Department of Transportation, David Baker and Kayti Ewing
Federal Highway Administration, Randal Looney
U.S. Fish and Wildlife Service, Lindsey Lewis
Environmental Protection Agency, Wanda Boyd
Arkansas Natural Heritage Commission, Cindy Osborne
Arkansas Game and Fish Commission, Jennifer Sheehan and Justin Stroman
Arkansas Department of Environmental Quality, Melanie Treat
Arkansas Natural Resources Commission, Ken Brazil
U.S. Army Corps of Engineers, Rod Gaines, Edmund Howe, Elmo Webb, Jaysson Funkhouser, Julia Smethurst, Bob Singleton, Joel Epperson, Robert Ahlert, Sam Gramlich, Kimberly Rea, Jeremy Thomason and James Fisher

ARKANSAS DEPARTMENT OF TRANSPORTATION
ArDOT.gov | IDriveArkansas.com | Lorie H. Tudor, P.E., Director
ENVIRONMENTAL DIVISION
10324 Interstate 30 | P.O. Box 2261 | Little Rock, AR 72203-2261 | Phone: 501.569.2281 | Fax: 501.569.2009

June 24, 2021

Mr. Johnny McLean
Regulator
U.S. Army Corps of Engineers
700 West Capitol Ave.
Little Rock, AR 72201

Dear Mr. McLean,

The Arkansas Department of Transportation (Department), in cooperation with the Federal Highway Administration (FHWA), is progressing to the next phase of project development for the construction of Interstate 49 (I-49) from Highway (Hwy.) 22 in Sebastian County to Interstate 40 (I-40) in Crawford County, a length of approximately 13.6 miles.

This section was originally part of a larger corridor environmental study known as the "U.S. 71 Relocation." This study extended from Hwy. 70 in DeQueen, Arkansas to I-40 near Alma, Arkansas, encompassing approximately 125 miles. The relocation of U.S. 71 in Arkansas is part of Congressionally-designated High Priority Corridor 1, running from Shreveport, Louisiana to Kansas City, Missouri. A Final Environmental Impact Statement was prepared, and a Record of Decision was issued in December 1997 that approved the general alignment of a new location, four-lane highway in western Arkansas.

The next phase of project development will include completing and obtaining agency approvals for the re-evaluation of the 1997 FEIS, preparing permits, and developing final design and construction plans for a non-tolled facility from Hwy. 22 to I-40, as shown on the enclosed map. Due to funding constraints, a phased construction approach may be used where two of the ultimate four lanes of the facility may be constructed in the first phase. Final determination of this phased construction approach will be determined during this next phase of project development.

The Department developed a more detailed preliminary roadway schematic design and conducted public involvement meetings in 2018. An I-49 Alternative Delivery Study was developed which evaluated alternative project delivery methods and toll feasibility for the project, but ultimately determined that a public-private partnership based on tolling this section is not a viable option. The study was adopted by the Arkansas State Highway Commission during their November 14, 2018 meeting.

The U.S. Army Corps of Engineers is invited to continue to be a National Environmental Policy Act (NEPA) cooperating agency on this project. Your agency has special expertise and jurisdiction for determination of effects to specific resources. The following activities will be undertaken by our agency to maximize interagency cooperation:

- Invite your agency to agency coordination meetings.
- Consult your agency on any relevant technical studies that may be required for the re-evaluation.
- Organize joint field reviews, as applicable.
- Provide project information, including re-evaluation study results.
- Encourage your agency to use the above documents to express its views on subjects within your agency's jurisdiction or expertise.
- Include information in the re-evaluation that cooperating agencies need to fulfill their NEPA responsibilities and any other requirements regarding jurisdictional approvals, permits, licenses, and/or clearances.

Please respond to accept or refuse cooperating agency status by contacting Mr. David Baker, P.E., Project Manager, at (501) 569-2054 or david.baker@ardot.gov by August 6, 2021. We look forward to your participation and input as we work together on this important transportation project.

Sincerely,

John Fleming

John Fleming
Division Head
Environmental Division

Enclosure

PROJECT LOCATION MAP

I-49 Project from Highway 22 to I-40

Crawford and Sebastian Counties, Arkansas

CESWL-OP-KR 14 January 2022
Ashlock/1741

MEMORANDUM THRU Ch, Operations Technical Support Branch (ATTN: Sam Gramlich)

Ch, Operations Division

Ch, Regulatory Division

FOR Ch, Real Estate Division

SUBJECT: Mitigation Recommendations for Arkansas Department of Transportation's (ARDOT) Request to Construct I-49 Corridor in Springhill Park, James W. Trimble Lock and Dam Project

1. On January 6, 2022, Russellville Site Office staff conducted an on-site meeting at the proposed right-of-way location. Upon surveying the area, Project Staff recommends that ARDOT provide the following items to mitigate the immediate and future negative impacts to natural resources and recreation features within Springhill Park:

a. The relocation of four impacted campsites to an area near the E section restroom. These sites will be utilized for park volunteers and should be paved with graveled or concrete living areas. The sites should also be full hookup with water, 50-amp electric service, and sewer. Utilities are available at the nearby E section restroom.

b. Resurface all paved roadways, parking areas, and campsites throughout the park.

c. Destruction, removal, and replacement of the B section restroom. The replacement should be a "Four Pack" of family restroom/shower units. An example of this type of facility is the CXT Navajo model.

d. Upgrade the 16 campsites in A section to 50-amp electric service.

2. MKARNS Project extends 308 river miles along the Arkansas River. Springhill Park is designated as a high-density recreation area in the MKARNS Masterplan and is one of Project's premier parks. Out of 74 parks on the MKARNS project, Springhill Park historically ranks in the top three for revenue and is only outcompeted by parks which have two – three times the number of campsites. The I-49 Project, plus the proximity to the third highest populous in Arkansas, will increase public use and put additional strain on already aging park infrastructure that struggles to meet current demand. These recommended upgrades would allow for mitigation for the negative impacts to land and park use due to the construction of the I-49 bridge. These negative impacts will be the annual utilization of 10-acres of land, that will be cleared of all existing vegetation, including the mature timber. Second, the increase of sound pollution projected from the estimated 40-feet tall bridge. Third, the bridge construction will also cause the dissection of the park, which will divide the park's land and impact an additional 100 acres east of the bridge.

Finally, the impacts to those members of the public, who enjoy day-use actives, including hiking and bike trail use. These individuals will be impacted directly inside the 10 acres as well as in the 100 acres east of the bridge.

3. For further information, you may contact Scotty Ashlock at 501-340-1741 or Lee Kirkpatrick at 501-324-6978.

ROBERT M. AHLERT
Russellville Site Manager

IN REPLY REFER TO:

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Arkansas Ecological Service Field Office
110 South Amity Road, Suite 300
Conway, Arkansas 72032

February 15, 2023

Mr. Randal Looney
Federal Highway Administration
Arkansas Division
700 West Capitol Avenue
Room 3130
Little Rock, Arkansas 72201-3298

Consultation Code: 2022-0010163

Re: Biological Assessment ARDOT Job 040748 Interstate 49, Highway 22 – I-40 (Arkansas River) (S), Sebastian and Crawford Counties, Arkansas

Dear Mr. Looney,

This letter provides U.S. Fish and Wildlife Service (Service) comments for the Biological Assessment (BA) for the proposed construction of I-49 from Highway 22 north to Alma at I-40 and I-49 interchange in Sebastian and Crawford Counties, Arkansas, developed by the Arkansas Department of Transportation (ARDOT) and the Federal Highway Administration (FHWA). Our comments are submitted in accordance with the Endangered Species Act (ESA) of 1973 (Act; 87 stat. 884, as amended; 16 U.S.C. 1531 et seq.). Comments from the Service were solicited on February 3, 2023.

ARDOT, in cooperation with the FHWA, is preparing a re-evaluation of the Final Environmental Impact Statement (FEIS) and refining the conceptual alignment for a new section of Interstate 49. The new section is a critical connection between Highway 22 in Sebastian County and Interstate 40 in Crawford County, a length of approximately 14 miles. The action area and affected species were identified by ARDOT/FHWA through coordination with the Service throughout the assessment and pre-planning stages. The entire footprint of the project is approximately 1,546 acres which includes permanent and temporary impacts. Combining all affected species geographic areas produced an action area with a 0.25 mile area beyond the project footprint of 1,546 acres, creating a total affected area of 7,983 acres. Construction will be phased over several years with some initial roadway clearing beginning Fall 2022, and final phases of construction to begin Spring 2026. A total of eleven threatened, endangered, candidate, or proposed species were identified for assessment, and no critical habitats have been designated within the action area.

The official species list obtained from the Service's Information for Planning and Consultation (IPaC) website identified the following endangered and threatened species as potentially occurring within the project boundaries; the endangered Gray Bat (*Myotis grisescens*), the endangered Indiana Bat (*Myotis sodalis*), the threatened Northern Long-eared Bat (*Myotis septentrionalis*), the endangered Ozark Big-eared Bat (*Corynorhinus (=Plecotus)*

townsendii ingens), the proposed endangered Tricolored Bat (*Perimyotis subflavus*), the threatened Eastern Black Rail (*Laterallus jamaicensis ssp. jamaicensis*), the threatened Piping Plover (*Charadrius melodus*), the threatened Red Knot (*Calidris canutus rufa*), the threatened American Burying Beetle (*Nicrophorus americanus*), the candidate Monarch Butterfly (*Danaus plexippus*), the threatened Missouri Bladderpod (*Physaria filiformis*), and the proposed threatened Alligator Snapping Turtle (*Macrochelys temminckii*).

The Service has reviewed the assessment and determinations of "may affect, not likely to adversely affect" for the species identified based on the distance to known species locations, limited suitable habitats effects, survey results, and the Service agrees with your assessments and concurs with your determinations. Furthermore, the Service has received and concurs with your non-jeopardy determinations for Alligator Snapping Turtle and Tricolored Bat. No further consultation or coordination for this project is required for these species at this time. Your agency has met consultation requirements by informing the Service of your "No Effect" determinations. No consultation for this project is required for species that you determined will not be affected by this Action. This concurrence verification letter confirms that you have met the requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 et seq.; ESA).

The Service recommends that your agency contact the Arkansas Ecological Services Field Office or re-evaluate this Action in IPaC if: 1) the scope, timing, duration, or location of the proposed project changes; 2) new information reveals the action may affect listed species or designated critical habitat; and 3) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Arkansas Ecological Services Field Office should take place before project changes are final or resources committed. This concludes informal consultation in accordance with 50 CFR 402.13.

We appreciate your continued efforts toward the conservation of protected and at-risk species and their habitats. For future correspondence on this matter, please contact Lindsey Lewis at (501) 513-4489.

Sincerely,

Melvin L. Tobin
Field Supervisor

cc: Arkansas Department of Transportation, Little Rock, Arkansas
Project File
Read File
Filename: https://doimspp-my.sharepoint.com/personal/lindsey_lewis_fws_gov/Documents/Documents/PROJECTS/FY2023/ARDOT/040748_I-49_Biological Assessment/20221216_Ltr_Concurrence_040748_I-49_Biological Assessment_LCL.docx

Asa Hutchinson
Governor
Stacy Hurst
Secretary

December 16, 2021

Mr. John Fleming
Division Head
Environmental Division
Arkansas Department of Transportation
P.O. Box 2261
Little Rock, AR 72203-2261

Re: Sebastian & Crawford Counties – Van Buren
Architectural Resources Survey Addendum – FHWA
Hwy. 22 – I-40
ARDOT Job Number 040748
AHPP Tracking Number 100314.03

Dear Mr. Fleming:

The staff of the Arkansas Historic Preservation Program (AHPP) reviewed the Architectural Resources Survey received August 6, 2021 for the above-referenced job.

Name/Address	ARDOT/FHWA NRHP Determination	AHPP Concurrence
Property 1 (374 Rudy Road)	Not Eligible	Yes
Property 1 (1026 Young Street)	Not Eligible	Yes
Property 1 (1020 Young Street)	Not Eligible	Yes
Property 1 (1012 Young Street)	Not Eligible	Yes
Property 1 (1002 Young Street)	Not Eligible	Yes
Property 1 (928 Young Street)	Not Eligible	Yes
Property 1 (939 Young Street)	Not Eligible	Yes
Property 1 (910 Young Street)	Not Eligible	Yes
Property 1 (917 Church Street)	Not Eligible	Yes
Property 1 (925 Church Street)	Not Eligible	Yes
Property 1 (924 Church Street)	Not Eligible	Yes
Property 1 (1003 Church Street)	Not Eligible	Yes
Property 1 (1007 Church Street)	Not Eligible	Yes
Property 1 (1014 Church Street)	Not Eligible	Yes
Property 1 (1015 Church Street)	Not Eligible	Yes
Property 1 (1020 Church Street)	Not Eligible	Yes
Property 1 (1023 Church Street)	Not Eligible	Yes
Property 1 (1024 Church Street)	Not Eligible	Yes
Property 1 (1029 Church Street)	Not Eligible	Yes
Property 1 (1023 Church Street)	Not Eligible	Yes
Property 2	Not Eligible	Yes
Property 3	Not Eligible	Yes
Property 4	Not Eligible	Yes

Name/Address	ARDOT/FHWA NRHP Determination	AHPP Concurrence
Property 5	Not Eligible	Yes
Property 6	Not Eligible	Yes
Property 7	Not Eligible	Yes
Property 7a	Not Eligible	Yes
Property 8	Not Eligible	Yes
Property 9	Not Eligible	Yes
Property 10	Not Eligible	Yes
Property 11	Not Eligible	Yes
Property 11a	Not Eligible	Yes
Property 11b	Not Eligible	Yes
Property 12	Not Eligible	Yes
Property 13	Not Eligible	Yes
Property 13a	Not Eligible	Yes
Property 14	Not Eligible	Yes
Property 14a	Not Eligible	Yes
Property 15	Not Eligible	Yes
Property 15a	Not Eligible	Yes
Property 17	Not Eligible	Yes
Property 17a	Not Eligible	Yes
Property 17b	Not Eligible	Yes
Property 18	Not Eligible	Yes
Property 18a	Not Eligible	Yes
Property 19	Not Eligible	Yes
Property 20	Not Eligible	Yes
Property 21	Not Eligible	Yes
Property 21a	Not Eligible	Yes
Property 21b	Not Eligible	Yes
Property 21c	Not Eligible	Yes
Property 23	Not Eligible	Yes
Property 23a	Not Eligible	Yes

We appreciate the opportunity to review this undertaking. If you have any questions, please contact George Burson at (501) 324-9270 or at George.Burson@arkansas.gov. Please refer to the AHPP Tracking Number above in any correspondence.

Sincerely,

for
Scott Kaufman
Director, AHPP

cc: Mr. Randal Looney, Federal Highway Administration

Sarah Huckabee Sanders
Governor
Mike Mills
Secretary

February 8, 2023

Mr. John Fleming
Division Head
Environmental Division
Arkansas Department of Transportation
P.O. Box 2261
Little Rock, AR 72203-2261

RE: Sebastian and Crawford Counties: General
Section 106 Review: FHwA
Proposed Undertaking: Hwy. 22 – I-40 (Arkansas River) (F)
ARDOT Number: 040748
AHPP Tracking Number: 110314.09

Dear Mr. Fleming:

The staff of the Arkansas Historic Preservation Program (AHPP) reviewed the Management Summary Addendum for the abovementioned project located in Sebastian County, Arkansas. The proposed project entails the extension of Interstate 49 from State Highway 22. This addendum survey focused on approximately 108 acres not previously surveyed in accordance with the 1997 Programmatic Agreement under the preliminary ARDOT job 00174. Five new archeological sites were identified, and three previously recorded archeological sites were revisited.

Resource Number	NRHP Recommendation	AHPP Concurrence
3CW0880	Undetermined	Yes
3CW0882	Eligible	Yes
3CW1336	Not Eligible	Yes
FS-28	Not Eligible	Yes
FS-29	Not Eligible	Yes
FS-32	Not Eligible	Yes
FS-33	Not Eligible	Yes
FS-34	Not Eligible	Yes
IF-20	Not Eligible	Yes
IF-21	Not Eligible	Yes

The AHPP concurs with the findings in the Addendum and looks forward to receiving the finalized Phase I/II report.

Tribes that have expressed an interest in the area include the Cherokee Nation, the Chickasaw Nation, the Choctaw Nation of Oklahoma, the Muscogee (Creek) Nation, the Osage Nation, the Quapaw Nation, and the Shawnee Tribe. We recommend consultation in accordance with 36 CFR § 800.2(c)(2).

Thank you for the opportunity to review this undertaking. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, call Kathryn Bryles at 501-324-9784 or email kathryn.bryles@arkansas.gov.

Sincerely,

Kathryn Bryles Digitally signed by Kathryn Bryles
Date: 2023.02.08 14:31:43 -06'00'

for
Scott Kaufman
AHPP Director and State Historic Preservation Officer

cc: Dr. Melissa Zabecki, Arkansas Archeological Survey
Mr. Randal Looney, Federal Highway Administration

Appendix B

U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

NRCS-CPA-106
(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I *(To be completed by Federal Agency)*	3. Date of Land Evaluation Request 3/28/23	4. Sheet 1 of 1
1. Name of Project I-49 FEIS Re-Evaluation	5. Federal Agency Involved FHWA	
2. Type of Project Highway	6. County and State Crawford County, Arkansas	

PART II *(To be completed by NRCS)*	1. Date Request Received by NRCS 3/28/23	2. Person Completing Form Rebecca Fox
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES ☐ NO ☐		4. Acres Irrigated 4,472 / Average Farm Size 141
5. Major Crop(s) Soybeans	6. Farmable Land in Government Jurisdiction Acres: 125,292 % 32	7. Amount of Farmland As Defined in FPPA Acres 121,657 % 32
8. Name Of Land Evaluation System Used NCCPI	9. Name of Local Site Assessment System NONE	10. Date Land Evaluation Returned by NRCS 4/6/23

PART III *(To be completed by Federal Agency)*	Alternative Corridor For Segment _____			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly	870.38			
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0			
C. Total Acres In Corridor	870.38			
PART IV *(To be completed by NRCS) Land Evaluation Information*				
A. Total Acres Prime And Unique Farmland	707			
B. Total Acres Statewide And Local Important Farmland	164			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0.69			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	9			
PART V *(To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)*	87			

PART VI *(To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))*	Maximum Points				
1. Area in Nonurban Use	15	12			
2. Perimeter in Nonurban Use	10	8			
3. Percent Of Corridor Being Farmed	20	10			
4. Protection Provided By State And Local Government	20	0			
5. Size of Present Farm Unit Compared To Average	10	9			
6. Creation Of Nonfarmable Farmland	25	0			
7. Availablility Of Farm Support Services	5	5			
8. On-Farm Investments	20	18			
9. Effects Of Conversion On Farm Support Services	25	0			
10. Compatibility With Existing Agricultural Use	10	3			
TOTAL CORRIDOR ASSESSMENT POINTS	160	65	0	0	0
PART VII *(To be completed by Federal Agency)*					
Relative Value Of Farmland (From Part V)	100	87	0	0	0
Total Corridor Assessment (From Part VI above or a local site assessment)	160	65	0	0	0
TOTAL POINTS *(Total of above 2 lines)*	260	152	0	0	0

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES ☐ NO ☐

5. Reason For Selection:

Signature of Person Completing this Part: | DATE

NOTE: Complete a form for each segment with more than one Alternate Corridor

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?
More than 90 percent - 15 points
90 to 20 percent - 14 to 1 point(s)
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?
More than 90 percent - 10 points
90 to 20 percent - 9 to 1 point(s)
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?
More than 90 percent - 20 points
90 to 20 percent - 19 to 1 point(s)
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?
Site is protected - 20 points
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?
(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with $1,000 or more in sales.)
As large or larger - 10 points
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?
Acreage equal to more than 25 percent of acres directly converted by the project - 25 points
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

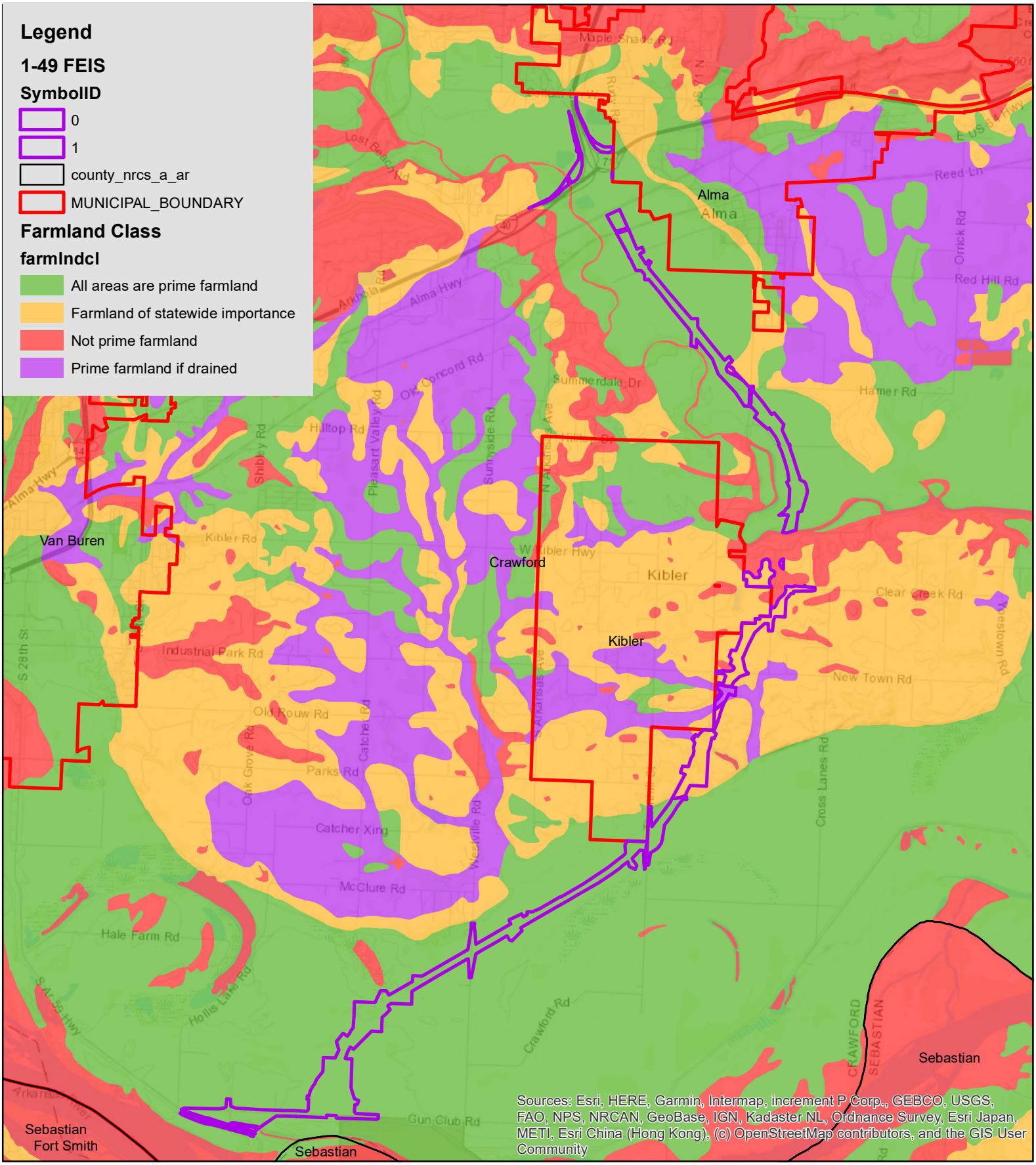
(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?
All required services are available - 5 points
Some required services are available - 4 to 1 point(s)
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?
High amount of on-farm investment - 20 points
Moderate amount of on-farm investment - 19 to 1 point(s)
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?
Substantial reduction in demand for support services if the site is converted - 25 points
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?
Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

Farmland Classification of Soils
I-49 FEIS Re-Evaluation
Crawford County, Arkansas



Section 408 Summary Report

Appendix F

Miscellaneous Correspondence

ARKANSAS DEPARTMENT OF TRANSPORTATION

Submitted by: HNTB

ARKANSAS DEPARTMENT OF TRANSPORTATION
ArDOT.gov | IDriveArkansas.com | Lorie H. Tudor, P.E., Director
10324 Interstate 30 | P.O. Box 2261 | Little Rock, AR 72203-2261
Phone: 501.569.2000 | Voice/TTY 711 | Fax: 501.569.2400

January 6, 2023

Ms. Sasha Grist
Executive Director
Western Arkansas Planning and Development District
1109 S 16th Street
Fort Smith, AR 72901

Re: Proposed I-49 from Highway 22 to I-40
ARDOT Job No. 040748

Dear Ms. Grist:

We understand the Western Arkansas Intermodal Authority (WAIA) requests that proposed Interstate 49 over the Arkansas River accommodate two future railroad tracks between the Crawford County Levee District levee and Gun Club Road.

In response to this request, we have adjusted the vertical profile for the proposed Interstate 49 bridge over Flat Rock Creek, the Crawford County Levee District levee, the future railroad tracks, and Gun Club Road, from that shown in profile on the enclosed exhibit in red, to that shown in black and labeled "I-49 ALTERNATIVE". This adjustment requires we increase the proposed bridge length by one additional 130-ft long span.

The enclosed exhibit also shows how the future railroad tracks are accommodated for both horizontally and vertically under the proposed I-49 Bridge. Please forward this exhibit to those developing the design for the WAIA Intermodal Port Facilities for their reference. If there are any questions or comments regarding this exhibit, we respectfully request those be provided to us in writing on or before February 3, 2023.

Please contact me if you have questions or require additional information regarding this request.

Sincerely,

Jared D. Wiley
Assistant Chief Engineer - Planning

Enclosure

c: Deputy Director and Chief Engineer
Assistant Chief Engineer – Design
Bridge
Environmental
Program Management
Roadway Design
Transportation Planning and Policy
HNTB

Exhibit F-1

U.S.Department
of Transportation

United States
Coast Guard

Commander
Eighth Coast Guard District
Western Rivers Operations

1222 Spruce St.
St. Louis MO 63103-2832
Staff Symbol: (ob)
Phone: (314) 539-3900
Fax: (314) 539-3755

16590/291.8 ARWW
January 24, 1997

Mr. Steve Teague, Assistant Chief
Engineer, Planning Department
Arkansas State Highway and Transportation Department
P.O. Box 2261
Little Rock, AR 72203-2261

Subj: PROPOSED U.S. 71 HIGHWAY BRIDGE, MILE 291.8, ARKANSAS WATERWAY

Dear Mr. Teague:

We have completed our review of the navigational clearances required for the subject project. Our review included input from the Arkansas Waterways Commission and the Little Rock District, Corps of Engineers. Based upon our review we have determined the following navigational clearances must be provided by a new bridge at the proposed location:

a. Vertical: At least 52 feet vertical clearance above elevation 389.7 feet mean sea level (m.s.l.), 2 percent flowline.

b. Horizontal: At least 500 feet horizontal, between the face of the left descending channel pier and the right descending bank of the river, measured perpendicular to the axis of the channel. The right descending channel pier must be located out of the water on the right descending bank of the river.

Comments concerning the design of the bridge to withstand impacts from river traffic or to employ pier protection are needed and if possible, should be included in the environmental documentation for this project.

You may contact Mr. David Sulouff at 314-539-3900, extension 382 if additional information is needed.

Sincerely,

Roger K. Wiebusch

ROGER K. WIEBUSCH
Bridge Administrator
By direction of the District Commander

Copy: Michael Baker Jr., Inc.

RECEIVED
JAN 31 1997

Exhibit F-2

040748
USCG.
SCAN

U.S. Department of Homeland Security
United States Coast Guard

Commander
Eighth Coast Guard District

1222 Spruce Street
St. Louis, MO 63103-2832
Staff Symbol: dwb
Phone: (314)269-2434
Fax: (314)269-2737
Email: allan.o.monterroza@uscg.mil

16591.1/291.6 ARR
February 21, 2018

Mr. Charles R. Ellis
Arkansas Department of Transportation
PO Box 2261
Little Rock, AR 77203-2261

Subj: PROPOSED I-49 HIGHWAY BRIDGE, MILE 291.6 ARKANSAS RIVER

Dear Mr. Ellis:

We have completed our navigational clearance review for the subject bridge project. Our review included input from the marine industry, Arkansas Waterway Commission, and the Little Rock District Army Corps of Engineers. Navigation span minimal clearance of the new bridge at the proposed location shall be:

a. Vertical: At least 52 feet clearance above 2 percent flowline elevation of 389.3 feet mean sea level m.s.l. (minimum elevation 441.3 m.s.l.)

b. Horizontal: At least 500 feet between the face of the left descending channel pier and the right descending bank, measured perpendicular to the axis of the channel. The right descending channel pier must be located out of the water on the right descending bank.

This is a preliminary determination. A final determination occurs after the end date or our public notice. Comments concerning the design of the bridge to withstand impacts from river traffic or to employ pier protection are needed and if possible, should be included in the environmental documentation for this project.

You may contact Mr. Allan Monterroza at the number listed above if additional information is needed.

Sincerely,

ERIC A. WASHBURN
Bridge Administrator, Western Rivers
By direction of the District Commander

ARKANSAS STATE HIGHWAY
AND TRANSPORTATION
DEPARTMENT

FEB 26 2018

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BRIDGE DIVISION

Exhibit F-3

U.S. Department of Homeland Security
United States Coast Guard

Commander
Eighth Coast Guard District

1222 Spruce Street
St. Louis, MO 63103-2832
Staff Symbol: dwb
Phone: (314)269-2434
Email: allan.o.monterroza@uscg.mil

16591.1/291.6 ARR
January 31, 2022

Mr. Charles R. Ellis
Arkansas Department of Transportation
PO Box 2261
Little Rock, AR 77203-2261

Subj: PROPOSED I-49 HIGHWAY BRIDGE, MILE 291.6 ARKANSAS RIVER, SEBASTIAN & CRAWFORD COUNTIES, ARKANSAS

Dear Mr. Ellis:

We have completed our navigational clearance review for the subject bridge project. Our review included input from the marine industry, Arkansas Waterway Commission, results from Seamen's Church simulations and the Little Rock District Army Corps of Engineers. Navigation span minimal clearance of the new bridge at the proposed location shall be:

a. Vertical: At least 52 feet clearance above 2 percent flowline elevation of 389.3 feet mean sea level m.s.l. (minimum elevation 441.3 m.s.l.)

b. Horizontal: At least 400 feet between the face of the left descending channel pier and the right descending bank at normal pool, measured perpendicular to the axis of the channel. The right descending channel pier must be located out of the water on the right descending bank.

This is a preliminary determination. A final determination occurs after the end date or our public notice. Comments concerning the design of the bridge to withstand impacts from river traffic or to employ pier protection are needed and if possible, should be included in the environmental documentation for this project.

You may contact Mr. Allan Monterroza at the number listed above if additional information is needed.

ARKANSAS DEPARTMENT OF TRANSPORTATION
FEB 11 2022
RECEIVED
BRIDGE DIVISION

Sincerely,

ERIC A. WASHBURN
Bridge Administrator, Western Rivers
By direction of the District Commander

Exhibit F-4

ARKANSAS STATE HIGHWAY COMMISSION

ROBERT S. MOORE, JR.
CHAIRMAN
ARKANSAS CITY

DALTON A. FARMER, JR.
VICE CHAIRMAN
JONESBORO

PHILIP TALDO
SPRINGDALE

KEITH GIBSON
FORT SMITH

MARIE HOLDER
LITTLE ROCK

LORIE H. TUDOR, P.E.
DIRECTOR

P.O. Box 2261 • Little Rock, Arkansas 72203-2261
Phone (501) 569-2000 • Voice/TTY 711 • Fax (501) 569-2400
www.ArDOT.gov • www.IDriveArkansas.com

September 15, 2022

Mr. M. Sean Brister
Brister Law Firm, PLLC
724 Fayetteville Avenue,
Alma, Arkansas 72921

Re: Proposed I-49 from Highway 22 to I-40
ARDOT Job No. 040748

Dear Mr. Brister,

Thank you for your letter dated April 14, 2022, providing us the Crawford County Levee District No. 1, Arkansas River Levee Bridge Crossing Specifications (Effective June 1, 2021).

We are pleased to inform you and the Crawford County Levee District Board Members that we have been coordinating with the Little Rock District of the United States Army Corp of Engineers (USACE) on the pending I-49 Section 408 submittal package for more than a year. We anticipate the preparation of the associated analyses and documentation, and the subsequent review by the USACE subject matter experts (SMEs) of the Section 408 submittal package will take another 12 to 18 months to complete.

In accordance with the Bridge Crossing Specifications, we will be submitting through the Section 408 process two minor alterations to the levee criteria for review by the USACE SMEs:

1. Vertical clearance over the top of levee shall be twenty-five (25) feet.
   USACE has a general recommendation of 15' vertical/horizontal clearance on levees for maintenance purposes. The Bridge Crossing Specification requirement is 10-feet higher than the 15-feet our design currently provides and would result in significant additional impacts. Our consultant, who has experience designing bridges over levee systems nationwide, has never seen a Levee District require more than 15-feet of vertical clearance.

   We must demonstrate through the Section 408 submittal process that your operation and maintenance procedures will not be negatively impacted by the project. We believe we can demonstrate that 15-foot of vertical clearance is sufficient to facilitate these procedures.

However, if there is a unique process or piece of equipment the Crawford County Levee District utilizes for operation and/or maintenance that requires more than 15-feet of vertical clearance, please provide that information to us at your earliest opportunity.

Related to the operation and maintenance of the levee under the bridge, we do plan to reinforce the levee slopes immediately under the bridge footprint and will comply with the specification requirement of reinforced concrete a minimum six inches thick and reinforced with fiber or wire mesh. We will include plans in the Section 408 submittal package so if the Levee District already has preferred details, please provide. Otherwise, our design team will prepare plans based on other similar projects and details that have been previously approved by the USACE.

2. No pier shall be closer than seventy (70) feet to either side of levee toes.
   Subject to geotechnical testing and under-seepage analyses that show no adverse impacts to the levee system, we will propose in the Section 408 submittal package pier locations closer than 70-feet, but no less than 25-feet to the levee toes of slope. If the levee under seepage analyses do not support this lesser horizontal clearance, or the USACE SMEs do not approve based on the Section 408 review, we will revise the bridge spans accordingly.

We will be pleased to copy the Crawford County Levee District on our Section 408 Submittals if desired. Please provide a contact name and email address as appropriate.

Ultimately ARDOT will need a letter from the Crawford County Levee District indicating no objection to the proposed alterations to the Bridge Crossing Specifications. This can be facilitated through the Section 408 process after the draft review by USACE SMEs confirming that the proposed crossing is not injurious to the public interest and will not impair the usefulness of the flood control project.

Finally, we have previously made multiple data requests to the Levee District for copies of the items listed below but have not yet received.

- Crawford County Levee Risk Assessment (dated 2017)
  - Including any boring log information

- Subsequent (to 2017 Risk Assessment) flood fight information/documentation (anything available, but especially the 2019 flood event)

- Operations & Maintenance Plans/Manuals

We respectfully request that you provide electronic or hard copies of those reports as expeditiously as possible. If these are existing reports that need to be copied and/or scanned, our consultant can coordinate that on your behalf. Alternatively, you can authorize the USACE to provide us copies of these reports. Please coordinate with our Project Manager to provide these documents.

Thank you again and we look forward to our continued and close coordination on this exciting project. If you have questions or require additional information, please contact our Project Manager, David Baker, P.E. (501-569-2054), (david.baker@ardot.gov) to further discuss or request a coordination meeting.

Sincerely,

Lorie H. Tudor

Lorie H. Tudor, P.E.
Director

c: Deputy Director and Chief Operating Officer
Deputy Director and Chief Engineer
Assistant Chief Engineer – Design
Bridge
Environmental
Roadway Design
HNTB

Y:\WINWORD\DD & COO RO\Letters\LT- Brister Response.docx

Brister Law Firm, PLLC

www.bristerlawfirm.com

724 Fayetteville Avenue
P.O. Box 1451
Alma, Arkansas 72921

T: (479) 632-2446
F: (479) 632-2447
sean@bristerlawfirm.com

April 14, 2022

Lorie Tudor
Arkansas Dept of Transportation
10324 Interstate 30
Little Rock, AR 72209

Re: Arkansas River Levee Bridge Crossing Specifications

Dear Mrs. Tudor:

My office serves as the attorney for the Crawford County Levee District. Regarding the proposed I-49 expansion, please find enclosed the specifications required by the Levee Board for structures or bridges crossing the Arkansas River Levee.

Thank you for your attention to this matter. If you have any questions do not hesitate to contact me.

Very truly yours,

M. Sean Brister

Enclosure

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APR 18 2022

DIRECTOR'S OFFICE
ARKANSAS DEPARTMENT
OF TRANSPORTATION

Crawford County Levee District No. 1
Arkansas River Levee
Bridge Crossing Specifications
(Effective June 1, 2021)

The following requirements have been promulgated by the Levee Board for any structures or bridges crossing the Arkansas River Levee in order to maintain levee security and protection of lives and property:

- Minimum horizontal distance for any encroachment is twenty-five (25) feet from levee toe. Any bridge bent should be as far away from the levee toe as possible. This is to avoid any seepage path that could adversely impact the levee through seepage or piping.
- Vertical clearance over the top of the levee shall be twenty-five (25) feet in order to insure any necessary maintenance or repair equipment can traverse the top of the levee.
- Bridge pier bent shall be backfilled with impervious material. No pier shall be closer than seventy (70) feet to either side levee toes.
- All excavation within seventy (70) feet of the riverside toe or one hundred (100) feet of the landside toe should be brought back up to original grade using similar material to the material removed.
- Due to light reduction caused by permanent bridge structures, sod could be adversely impacted and alternate erosion control shall be required as may be directed by the Levee Board but in any event the area immediately under any bridge structure shall be covered in reinforced concrete with a minimum thickness of six (6) inches and reinforcement of fiber, or wire mesh.
- No levee cuts shall be made and no construction or work shall occur on the levee other than concrete for erosion control as specified herein.
- No piles shall be driven in the levee.
- Any proposed levee alterations shall require an Army Corps of Engineers 408 permit.
- No construction traffic shall be allowed on the levee other than at approved crossings.

Norman Painter

U.S. Department of Homeland Security
United States Coast Guard

Commander
Eighth Coast Guard District

1222 Spruce Street
St. Louis, MO 63103-2832
Staff Symbol: dwb
Phone: (314)269--2434
Fax: (314)269-2737
Email: allan.o.monterroza@uscg.mil

16591.1/291.6 ARR
October 28, 2022

Mr. Charles R. Ellis
Arkansas Department of Transportation,
Bridge Division
PO Box 2261
Little Rock, AR 77203-2261

Subj: PROPOSED I-49 HIGHWAY BRIDGE, MILE 291.6 ARKANSAS RIVER, SEBASTIAN & CRAWFORD COUNTIES, ARKANSAS

Dear Mr. Ellis:

This is in reply to the coordination meeting held on October 3, 2022.

The General Bridge Act of 1946 requires that the location and plans for bridges over navigable waters of the United States be approved by the Commandant, U.S. Coast Guard prior to commencing construction. The Arkansas River is considered to be a navigable waterway of the United States for bridge administration purposes at the bridge site.

Applications for bridge permits should be addressed to Commander (dwb), Eighth Coast Guard District, 1222 Spruce Street, RM 2.102D, St. Louis, Missouri 63103-2832, Attention: Bridge Branch. To assist you in submitting a bridge permit application, the Bridge Permit Application Guide can be sent electronically upon request. The application must be supported by sufficient information to permit a thorough assessment of the impact of the bridge and its immediate approaches on the environment. We recommend that the impacts of procedures for constructing cofferdams, sand islands, and falsework bents, etc., that will be employed to build the bridge be discussed. The environmental document should also contain data on the number, size and types of vessels currently using the waterway. This information should be compared with past and projected future trends on the use of the waterway.

It is our understanding the Federal Highway Administration has assumed the role as the lead federal agency. We require a letter from FHWA stating that they will serve as lead federal agency for the National Environmental Policy Act and other environmental laws such as the National Historic Preservation Act, Threatened and Endangered Species Act and the Invasive Species Act. We agree to serve as a Cooperating Agency for the project from a navigation standpoint. We should be given the opportunity to review the environmental document. Our review and recommendations on the vertical and horizontal clearance requirements and pier placement for river traffic will be coordinated with Arkansas Department of Transportation, Bridge Division.

A proposed navigational opening that provides a minimum vertical clearance of at least 52 feet above 2 percent flowline elevation of 389.3 feet mean sea level m.s.l. (minimum elevation 441.3

m.s.l.) and a minimum horizontal clearance of at least 400 feet between the face of the left descending channel pier and the right descending bank at normal pool, measured perpendicular to the axis of the channel would satisfy the reasonable needs of navigation for a bridge at this location. The right descending channel pier must be located out of the water on the right descending bank. During construction a temporary channel of 325 feet with 50 feet max encroachment from the right descending bank would be allowed.

This is a preliminary determination. A final determination occurs after the end date of our public notice. Comments concerning the design of the bridge to withstand impacts from river traffic or to employ pier protection are needed and if possible, should be included in the environmental documentation for this project. Once the actual pier placement and alignment for the bridge has been determined, please forward these drawings to us for review and approval.

We appreciate the opportunity to comment on the project in this early stage. You can contact Mr. Allan Monterroza at the above telephone number if you have questions regarding our comments or requirements.

Sincerely,

ERIC A. WASHBURN
Bridge Supervisor, Western Rivers
By direction of the District Commander

UNITED STATES PROPERTY AND FISCAL OFFICE
CAMP JOSEPH T. ROBINSON
NORTH LITTLE ROCK, ARKANSAS 72199-9600

May 13, 2022

Mr. Rex Vines, PE
Deputy Director and Chief Engineer
Arkansas Department of Transportation (ARDOT)
10324 Interstate 30
PO Box 2261,
Little Rock, AR 72203-2261

Re: ARDOT Job No. 040748, Proposed I-49 from Highway 22 to I-40
Memorandum of Understanding
Tree Clearing on Arkansas National Guard (ARNG) Facility

Dear Mr. Vines,

ARNG understands the following with respect to the above referenced project:

1. ARDOT is proposing to construct a new I-49 crossing of the Arkansas River and adjacent floodplains as conceptually shown on the enclosed *Arkansas I-49 Proposed Bridge & Tree Clearing Preliminary 2022-03-30* (Exhibit).
2. Based on preliminary hydraulic design, ARDOT is proposing approximately 60-90 acres of tree clearing to mitigate potential rises in floodwater surface elevations resulting from the proposed bridge foundations and embankment section.
3. ARDOT desires to coordinate the final design of the tree clearing area with the ARNG so that it will serve as both hydraulic mitigation for the proposed I-49 crossing of the Arkansas River and provide a betterment to the Fort Chaffee Joint Maneuver Training Center's (FCJMTC) river crossing training and operations.
4. ARDOT will enter into an agreement with ARNG (*or other appropriate entity*) to maintain the tree clearing area as needed to preserve the hydraulic mitigation characteristics of the area.
5. ARDOT will solicit final written approval from the ARNG for the final tree clearing plan and will submit the plan and the hydraulic modeling and analysis for review and approval by the United States Army Corps of Engineering (USACE) under the Section 408 process.

The FCJMTC's river crossing training and operations area is located directly east and adjacent to the proposed I-49 Bridge and is the only installation nationwide the Department of Defense can use for major river crossing training.

We understand additional hydraulic modeling and engineering design of the tree clearing area will be performed to arrive at a final plan that will be submitted for our subsequent review and approval.

We will require that the proposed bridge and tree clearing construction and future ARDOT maintenance of the area not interfere with the FCJMTC river crossing training and operations.

Based on the above, and presuming ARDOT takes no exception, we conclude the preliminary location of the proposed tree clearing area shown on the enclosed Exhibit would be a betterment for the FCJMTC because it provides a more desirably located staging area for our river crossing training and operations.

We are pleased to commit to continue our coordination and collaboration with ARDOT and the USACE on the proposed I-49 Project through final concurrence and approval of a mutually beneficially tree clearing plan.

Please confirm via email concurrence with the above understanding or provide discussion otherwise.

Sincerely,

James H. Treece
Colonel, National Guard bureau
United States Property and Fiscal Officer for Arkansas