

APPENDIX A  
Section A  
Agency Correspondence





DEPARTMENT OF THE ARMY  
OFFICE OF THE ASSISTANT SECRETARY  
CIVIL WORKS  
108 ARMY PENTAGON  
WASHINGTON DC 20310-0108

27 OCT 2005

MEMORANDUM FOR DIRECTOR OF CIVIL WORKS

SUBJECT: May Branch, Fort Smith, Arkansas – Deviation from the National Economic Development (NED) Plan

I am responding to CEMP-SWD memorandum dated July 19, 2005, requesting that I grant an exception to the requirement to recommend the NED plan and to allow the Army Corps of Engineers to recommend Federal participation in the locally preferred plan (LPP) for flood control improvements at May Branch, Fort Smith, Arkansas.

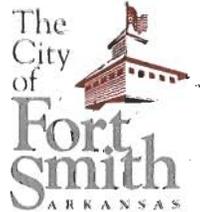
After reviewing the materials you provided, I have decided to grant the requested policy exception because implementation of the locally-preferred 100-year level of protection, instead of a 10-year level, for reaches 1 and 2 (out of 6) increases the number of structures removed from the 100-year floodplain from 88 to 126, an overall increase of 43 percent. Additionally, this approach will remove 126 of 127 structures in all reaches from the 100-year floodplain. The total project cost for the NED plan is \$20.3 million. The additional cost to implement the LPP of \$1.4 million is not unreasonable in accordance with Corps regulations and the damages are thereby reduced significantly. The basin is already 100 percent urbanized so implementing the LPP would not materially change the local planning environment. Finally, implementing the LPP will reduce non-Federal eligibility requirements for the National Flood Insurance Program, has the potential to reduce future net subsidized reimbursements for flood losses. Finally, there are no additional non-structural measures that could be implemented.

The Little Rock District may prepare a draft report and environmental impact statement recommending Federal participation in the locally preferred plan (100-year level of protection for all 6 reaches) and cost share this entire plan in accordance with Section 103 of the Water Resources Development Act, as amended. The cost of any betterments upstream of the 800 cfs limit in reaches 5 and 6 must be a 100 percent local responsibility.

If there are any questions, your staff may contact Mr. Chip Smith, Assistant for Environment, Tribal, and Regulatory Affairs at (703) 693-3655.

A handwritten signature in cursive script that reads "John Paul Woodley, Jr.".

John Paul Woodley, Jr.  
Assistant Secretary of the Army  
(Civil Works)



October 5, 2004

Julia Smethurst  
Project Manager  
U.S. Army Corps of Engineers - Little Rock District  
P.O. Box 867  
Little Rock, Arkansas 72203-0867

**Re: May Branch Feasibility Study  
Fort Smith, Arkansas**

Dear Ms. Smethurst:

This letter is written as a follow up to the issue of the "P" Street storm sewer repair costs that was raised during the Alternative Formulation Briefing held on September 22, 2004. As part of the May Branch Feasibility Study, the existing "P" Street storm sewer was inspected and repair costs were determined. For reaches 1 through 4, the estimated repair cost is \$1.2 million. The damages for the "without" project conditions assumes that the "P" Street storm sewer will continue to function. As such, the costs of repairs "with" or "without" project are the same and are not included in the total project estimate.

The City currently maintains the "P" Street storm sewer and will continue to maintain this storm sewer after completion of the May Branch project. At the future time of construction of the May Branch project, the City will also repair the "P" Street storm sewer as noted above. The City has a sales tax dedicated to drainage and street improvements and has budgeted \$16.6 million over the next five years for the May Branch project.

We look forward to continuing our work with the Little Rock District on the May Branch Drainage Project. Should you need any additional information please contact me.

Sincerely,

A handwritten signature in blue ink that reads "Stan Snodgrass".

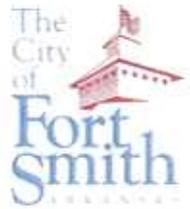
Stan Snodgrass, P.E.  
Director of Engineering

c: Ray Gosack

U:\My Documents\98-12-B (Maybranch)\smethurst 100504.wpd

623 Garrison Avenue  
P.O. Box 1908  
Fort Smith, Arkansas 72902  
(501) 785-2801  
Administrative Offices FAX (501) 784-2407

October 12, 1992



Colonel David R. Ruf  
District Engineer  
U.S. Army Corps of Engineers  
P.O. Box 867  
Little Rock, AR 72203-0867

RE: May Branch, Fort Smith, Arkansas

Dear Colonel Ruf:

The City's engineering staff has reviewed the Reconnaissance Report for the May Branch basin in Fort Smith, which was accomplished under Section 205 of the Flood Control Act of 1946, as amended. We understand that the May Branch study can be incorporated into the Arkansas River Wetlands and Flood Control Study. We request that change.

The City strongly supports flood improvement. Therefore, we request that a General Investigation be conducted with additional alternatives evaluated and a more extensive project be considered in order to address the flooding on a more comprehensive scale.

We are aware that under Public Law 99-662 the next step in the implementation of a flood reduction project along May Branch is the preparation of a 50-50 cost shared feasibility study. We understand that the construction of any project is contingent upon showing the considered works of improvement are cost effective and in the overall public interest for reducing flood damages. We further understand that during construction, the minimum required non-federal contribution is equal to 25 percent of the cost of the project assigned to flood control, including a 5 percent cash contribution. The maximum non-federal share is not to exceed 50 percent of the cost assigned to flood control.

The City collects \$9.5 million a year from a sales tax dedicated to improvements including drainage. We are prepared to recommend to the City's Board of Directors that we fund our share of study and construction costs out of these revenues.

We look forward to participating in the study and project. Please contact us when you are ready to initiate feasibility study negotiations.

Sincerely,

Stribling P. Boynton  
City Administrator

SPB/mdp

623 Garrison Avenue  
P.O. Box 1908  
Fort Smith, Arkansas 72902  
(501) 785-2801  
Administrative Offices FAX (501) 784-2407



# The Department of Arkansas Heritage

Mike Huckabee, Governor  
Cathie Matthews, Director

Arkansas Arts Council



Arkansas Natural Heritage  
Commission



Delta Cultural Center



Historic Arkansas Museum



Mosaic Templars  
Cultural Center



Old State House Museum



## Arkansas Historic Preservation Program

1500 Tower Building  
323 Center Street  
Little Rock, AR 72201  
(501) 324-9880  
fax: (501) 324-9184  
tdd: (501) 324-9811

e-mail: [info@arkansaspreservation.org](mailto:info@arkansaspreservation.org)

website:

[www.arkansaspreservation.org](http://www.arkansaspreservation.org)

An Equal Opportunity Employer



August 30, 2006

Mr. Jim D. Ellis  
Little Rock District Corps of Engineers  
Planning Branch  
Post Office Box 867  
Little Rock, Arkansas 72203-0867

RE: Sebastian County - Fort Smith  
Section 106 Review - COE  
May Branch Project  
AHPP Tracking No: 61099

Dear Mr. Ellis:

This letter is written in response to your inquiry regarding properties of architectural, historical, or archeological significance in the area of the referenced project. My staff has reviewed the documentation regarding the above-referenced undertaking. Our records show that one historic site (SB0490S - Martin Luther King, Jr. Monument) is located adjacent the subject project and may be affected by the proposed construction. This monument should be avoided and protected during construction activity.

In July 1999, we found that this undertaking would have no effect on historic properties and that finding still stands. However, if cultural remains, such as Native American pottery, stone tools, bones, old bottles or china are discovered during project implementation, work in the area of discovery should stop and the District Archeologist should be contacted immediately. We will evaluate his documentation as expeditiously as possible.

Thank you for the opportunity to comment on this undertaking. If you have any questions, please contact Steve Imhoff of my staff at (501) 324-9880.

Sincerely,

Ken Grunewald  
Deputy State Historic Preservation Officer

cc: Ms. Margaret Bell, Wichita & Affiliated Tribes  
Mr. Robert Cast, Caddo Nation of Oklahoma  
Mr. Christopher G. Davies, Little Rock District Corps of Engineers  
Dr. Ann M. Early, Arkansas Archeological Survey  
Ms. Carrie V. Wilson, Quapaw Tribe of Oklahoma



STATE OF ARKANSAS  
**Department of Finance  
and Administration**

**OFFICE OF INTERGOVERNMENTAL SERVICES**

1515 West Seventh Street, Suite 417  
Post Office Box 8031  
Little Rock, Arkansas 72203-8031  
Phone: (501) 682-1074  
Fax: (501) 682-5206  
<http://www.state.ar.us/dfa>

September 6, 2006

Mr. Jim D. Ellis  
U.S. Army Corps of Engineers  
Little Rock District, Planning Branch  
P.O. Box 867  
Little Rock, AR 72203-0867

RE: PUBLIC DRAFT - Feasibility Report, Environmental Assessment  
May Branch, Fort Smith, Arkansas.

Dear Mr. Ellis:

The State Clearinghouse has received the above document pursuant to the Arkansas Project Notification and Review System.

To carry out the review and comment process, this document was forwarded to members of the Arkansas Technical Review Committee. Resulting comments received from the Technical Review Committee which represents the position of the State of Arkansas are attached.

The State Clearinghouse wishes to thank you for your cooperation with the Arkansas Project Notification and Review System.

Sincerely,

A handwritten signature in black ink, appearing to read "Tracy L. Copeland".

Tracy L. Copeland, Manager  
State Clearinghouse

TLC/th  
Enclosure  
CC: Randy Young, ANRC



# Arkansas Natural Resources Commission



J. Randy Young, PE  
Executive Director

101 East Capitol, Suite 350  
Little Rock, Arkansas 72201  
<http://www.anrc.arkansas.gov>

Phone: (501) 682-1611  
Fax: (501) 682-3991  
E-mail: [anrc@arkansas.gov](mailto:anrc@arkansas.gov)

Mike Huckabee  
Governor

## MEMORANDUM

TO: Mr. Tracy Copeland, Manager  
State Clearinghouse

FROM: Mr. J. Randy Young, P.E., Chairman  
Technical Review Committee

SUBJECT: PUBLIC DRAFT – Feasibility Report  
Environmental Assessment  
May Branch, Fort Smith, Arkansas

DATE: September 6, 2006

RECEIVED

SEP 06 2006

INTERGOVERNMENTAL  
SERVICES  
STATE CLEARINGHOUSE

Members of the Technical Review Committee have reviewed the above referenced project; the purpose of the feasibility study is to identify, evaluate, and recommend to decision makers a coordinated, implementable solution to the identified water resources problems and opportunities for May Branch in Fort Smith, Arkansas. It is recommended that improvements to May Branch for flood control with minor environmental restoration benefits be authorized for construction. The project area supports relatively minor wildlife populations. There are no prime farmlands within the project area. If nothing is done, frequent flooding will continue to cause considerable damage along May Branch. Street intersections will continue to function as detention basins after curb and drop inlets have reached capacity, and excess runoff will flow between buildings and across low-lying terrain. The project cost is estimated to be \$21,698,200.00, which excludes a \$4,326,700.00 betterment that is a total non-Federal cost. The report meets the needs of the local community.

The Committee supports this project. Agency comments are included for your review.

The opportunity to comment is appreciated.  
JRY/ddavis

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Department of Finance and Administration

1515 West Seventh Street, Suite 412
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Little Rock, Arkansas 72203-8031
Phone: (501) 682-1074
Fax: (501) 682-5206
http://www.state.ar.us/dfa

MEMORANDUM

TO: All Technical Review Committee Members
FROM: Tracy L. Copeland, Manager - State Clearinghouse
DATE: July 27, 2006
SUBJECT: PUBLIC DRAFT -- Feasibility Report and Environmental Assessment
May Branch, Fort Smith, Arkansas.

Please review the above stated document under provisions of Section 404 of the Clean Water Act, Section 102(2) of the National Environmental Policy Act of 1969 and the Arkansas Project Notification and Review System.

Your comments should be returned by August 11, 2006 to - Mr. Randy Young, Chairman, Technical Review Committee, 101 E. Capitol, Suite 350, Little Rock, AR 72203.

If you have no reply within that time we will assume you have no comments and will proceed with the sign-off.

NOTE: It is imperative that your response be in to the ASWCC office by the date requested. Should your Agency anticipate having a response which will be delayed beyond the stated deadline for comments, please contact Ms. Debby Davis of the ASWCC at (501) 682-1611 or the State Clearinghouse Office.

- Support
Do Not Support (Comments Attached)
Comments Attached
Support with Following Conditions
No Comments
Non-Degradation Certification Issues (Applies to ADEQ Only)

Name(print) Robert Agency ANRC Date 9-1-06

Telephone Number



# Arkansas Natural Resources Commission



J. Randy Young, P.E.  
Executive Director

101 East Capitol Avenue, Suite 350  
Little Rock, Arkansas 72201  
<http://www.aswcc.arkansas.gov/>

Phone: (501) 682-1611  
Fax: (501) 682-3991  
E-mail: [anrc@arkansas.gov](mailto:anrc@arkansas.gov)

Mike Huckabee  
Governor

August 16, 2006

Mr. Jim D. Ellis  
Planning & Environmental Office  
USACE, Little Rock District  
Post Office Box 867  
Little Rock, Arkansas 72203-0867

Re: Draft Feasibility Report and Environmental Assessment (EA) and Draft Finding of No Significant Impact (FONSI) for the May Branch, Fort Smith, Arkansas Project

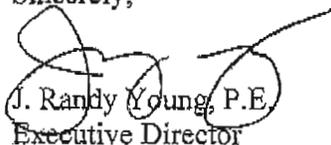
Dear Mr. Ellis:

Thank you for the opportunity to comment on the proposed Draft Feasibility Report and EA and Draft FONSI regarding the channelization of May Branch to alleviate flooding problems in Fort Smith, Arkansas. Approximately 2.75 miles of the original channel of May Branch was covered and converted to an underground storm sewer tunnel in 1910. It is recommended that improvements to May Branch for flood control with minor environmental restoration benefits be authorized for construction.

My staff has reviewed the Draft Feasibility Report and EA, and concurs with the findings presented in the Draft FONSI. I recommend the project move forward with the Locally Preferred Plan.

If you have any questions or need further assistance, please contact Kenneth Colbert of my staff at 501-682-1608. Again, thank you for the opportunity to review and comment on the Draft Feasibility Report and EA and Draft FONSI regarding the channelization of May Branch.

Sincerely,

  
J. Randy Young, P.E.  
Executive Director

JRY/kc

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STATE OF ARKANSAS

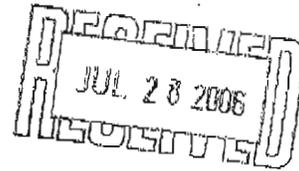
OFFICE OF INTERGOVERNMENTAL SERVICES

# Department of Finance and Administration

1515 West Seventh Street, Suite 412  
Post Office Box 8031  
Little Rock, Arkansas 72203-8031  
Phone: (501) 682-1074  
Fax: (501) 682-5206  
<http://www.state.ar.us/dfa>

## MEMORANDUM

TO: All Technical Review Committee Members  
FROM: Tracy L. Copeland <sup>TLC</sup> Manager - State Clearinghouse  
DATE: July 27, 2006  
SUBJECT: PUBLIC DRAFT - Feasibility Report and Environmental Assessment  
May Branch, Fort Smith, Arkansas.



Please review the above stated document under provisions of Section 404 of the Clean Water Act, Section 102(2) of the National Environmental Policy Act of 1969 and the Arkansas Project Notification and Review System.

Your comments should be returned by August 11, 2006 to - Mr. Randy Young, Chairman, Technical Review Committee, 101 E. Capitol, Suite 350, Little Rock, AR 72203.

**If you have no reply within that time we will assume you have no comments and will proceed with the sign-off.**

NOTE: It is imperative that your response be in to the ASWCC office by the date requested. Should your Agency anticipate having a response which will be delayed beyond the stated deadline for comments, please contact Ms. Debby Davis of the ASWCC at (501) 682-1611 or the State Clearinghouse Office.

- Support
- <sup>Below</sup> Comments Attached
- Do Not Support (Comments Attached)
- Support with Following Conditions
- No Comments
- Non-Degradation Certification Issues (Applies to ADEQ Only)

Project will need to meet stormwater and section 404/401 water quality certification requirements

Name(print) Keith Browne Agency ADEQ Date 7-31-06  
Telephone Number 682-0653



**Arkansas Game and Fish Commission**  
2 Natural Resources Drive Little Rock, Arkansas 72205

Scott Henderson  
Director

Mike Gibson  
Deputy Director



David Goad  
Deputy Director

Loren Hitchcock  
Deputy Director

August 4, 2006

Mr. Jim D. Ellis  
U.S. Army Corps of Engineers  
Little Rock Planning Branch  
P.O. Box 867  
Little Rock, AR 72203-0867

Dear Mr. Ellis:

Your letter dated July 26, 2006 concerning the Draft Feasibility Report and Environmental Assessment and the Draft Finding of No Significant Impact Report for the proposed May Branch project Located in Fort Smith, Sebastian County, Arkansas, has been referred to me for reply.

Biologists from our agency have reviewed this report and recommend the locally preferred plan (LPP). Our agency would recommend constructing baffles in the runoff area to increase dissolved oxygen in the water and trash racks to collect trash before it enters into the river. We would also suggest placing fabric and rip-rap at the outlet to control erosion. Our fisheries biologist feel that the storm water runoff should be separated from the P Street sewage system to avoid impacts to fisheries habitat.

Our agency appreciates the opportunity to review these comments and look forward to working cooperatively with your agency in the future.

Sincerely,

A handwritten signature in black ink that reads "Michael D. Gibson".

Michael D. Gibson  
Deputy Director

Cc: Doyle Shook  
Mike Armstrong  
USFWS

Phone: 501-223-6300 Fax: 501-223-6448 Website: [www.agfc.com](http://www.agfc.com)

The mission of the Arkansas Game and Fish Commission is to wisely manage all the fish and wildlife resources of Arkansas while providing maximum enjoyment for the people.



STATE OF ARKANSAS

OFFICE OF INTERGOVERNMENTAL SERVICES

Department of Finance and Administration

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Little Rock, Arkansas 72203-8031
Phone: (501) 682-1074
Fax: (501) 682-5206
http://www.state.ar.us/dfa

MEMORANDUM

TO: All Technical Review Committee Members
FROM: Tracy L. Copeland, Manager - State Clearinghouse
DATE: July 27, 2006
SUBJECT: PUBLIC DRAFT - Feasibility Report and Environmental Assessment
May Branch, Fort Smith, Arkansas.

Please review the above stated document under provisions of Section 404 of the Clean Water Act, Section 102(2) of the National Environmental Policy Act of 1969 and the Arkansas Project Notification and Review System.

Your comments should be returned by August 11, 2006 to - Mr. Randy Young, Chairman, Technical Review Committee, 101 E. Capitol, Suite 350, Little Rock, AR 72203.

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Support (checked) Do Not Support (Comments Attached)
Comments Attached Support with Following Conditions
No Comments Non-Degradation Certification Issues (Applies to ADEQ Only)

Name(print) JAMES L. KOSTER Agency Date 2 Aug 06
Telephone Number 501-256-1813



STATE OF ARKANSAS

OFFICE OF INTERGOVERNMENTAL SERVICES

Department of Finance and Administration

1515 West Seventh Street, Suite 412
Post Office Box 8031
Little Rock, Arkansas 72203-8031
Phone: (501) 682-1074
Fax: (501) 682-5206
http://www.state.ar.us/dfa

MEMORANDUM

TO: All Technical Review Committee Members
FROM: Tracy L. Copeland Manager - State Clearinghouse
DATE: July 27, 2006
SUBJECT: PUBLIC DRAFT - Feasibility Report and Environmental Assessment
May Branch, Fort Smith, Arkansas.

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Your comments should be returned by August 11, 2006 to - Mr. Randy Young, Chairman, Technical Review Committee, 101 E. Capitol, Suite 350, Little Rock, AR 72203.

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- Support Do Not Support (Comments Attached)
Comments Attached Support with Following Conditions
No Comments Non-Degradation Certification Issues (Applies to ADEQ Only)

RECEIVED
06 29 07 11:11 AM
ARKANSAS DEPT OF HEALTH
DIVISION OF EPIDEMIOLOGY

Name(print) HAROLD SEIFERT Agency Date 08-01-06
ENGINEERING SECTION
Telephone Number 501-661-2623 DIVISION OF HEALTH - SLOT H37
AR DEPT. OF HEALTH & HUMAN SERVICES
P.O. BOX 1437
LITTLE ROCK, AR 72203-1437



STATE OF ARKANSAS

OFFICE OF INTERGOVERNMENTAL SERVICES

Department of Finance and Administration

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Post Office Box 8031
Little Rock, Arkansas 72203-8031
Phone: (501) 682-1074
Fax: (501) 682-5206
http://www.state.ar.us/dfa

MEMORANDUM

TO: All Technical Review Committee Members
FROM: Tracy L. Copeland, Manager - State Clearinghouse
DATE: July 27, 2006
SUBJECT: PUBLIC DRAFT - Feasibility Report and Environmental Assessment
May Branch, Fort Smith, Arkansas.

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Form with checkboxes for Support, Comments Attached, No Comments, Do Not Support (Comments Attached), Support with Following Conditions, Non-Degradation Certification Issues (Applies to ADEQ Only)

Name(print) William Prior Agency AGC Date 7-28-2006
Telephone Number 683-0117



# Arkansas GEOLOGICAL COMMISSION

VARDELLE PARHAM GEOLOGY CENTER • 3815 WEST ROOSEVELT ROAD • LITTLE ROCK, ARKANSAS 72204

Mike Huckabee  
Governor  
Bekki White  
Director and State Geologist

July 28, 200

Mr. Randy Young  
Chairman, Technical Review Committee  
101 E. Capitol, Suite 350  
Little Rock, Arkansas 72203

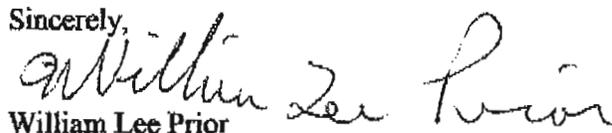
Dear Mr. Young:

This letter is a response to your request for comments on the proposed rechannelization of May Branch in the City of Fort Smith, Sebastian County, Arkansas. The following comments pertain to the Geologic section of the Environmental Assessment on page 35.

The geologic descriptions given come from a very old reference and also seem to contain soil information. The project area contains bedrock of the Pennsylvanian age McAlester that is composed of beds of sandstone, siltstone and shale. Overlying this bedrock is Quaternary age local stream alluvium composed of sandstone cobbles, fine to medium sand and clay. The area northwest of the railroad tracks is in the Quaternary age alluvium of the Arkansas River which contains coarser sand less clay and chert cobbles.

If you have any questions about these comments please feel free to contact me.

Sincerely,

  
William Lee Prior  
Geologist Supervisor

PHONE: (501) 296-1877; FAX: (501) 663-7360  
agc@arkansas.gov  
www.state.ar.us/ugc/agc.htm  
An equal opportunity employer



# ARKANSAS FORESTRY COMMISSION

3821 West Roosevelt Road Little Rock, Arkansas 72204-6396  
(501) 296-1940 fax: (501) 296-1949

John T. Shannon, R.F.  
State Forester

August 2, 2006

Jim D. Ellis  
U.S. Army Corps of Engineers  
Little Rock District, Planning Branch,  
P. O. Box 867  
Little Rock, Ar 72203-0867

RE: Draft Feasibility Report and Environmental Assessment and the  
Draft Finding of No Significant Impact for the May Branch, Fort Smith,  
Arkansas Project

Dear Jim Ellis:

The above project should have no adverse impacts on the forest resources of  
the area.

If we can be of service, please contact us at any time.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Northum".

James L. Northum  
Arkansas Forestry Commission  
Forest Health  
501-296-1863  
jim.northum@arkansas.gov

United States Department of Agriculture



Natural Resources Conservation Service  
Room 3416, Federal Building  
700 West Capitol Avenue  
Little Rock, Arkansas 72201-3225

---

Mr. Jim Ellis  
Department of the Army  
Little Rock District Corps of Engineers  
P.O. Box 867  
Little Rock, Arkansas 72203-0867

Dear Mr. Ellis:

This letter is in response to your request for comments on the Draft Feasibility Report and Environmental Assessment and the Draft Finding of No Significant Impact for the May Branch, Fort Smith, Arkansas, Project. This area is residential/urban and therefore does not fit the criteria for Prime Farmland or Farmland of Statewide Importance. Our agency concurs with the locally preferred plan. Best management practices to prevent erosion and sedimentation should be used to prevent soil erosion and to ensure good water quality. Attached is form CPA-106 for your records.

Should you have any questions or need additional information, please call me at (501) 301-3172.

Sincerely,

A handwritten signature in cursive script that reads "Edgar P. Mersiofsky".

EDGAR P. MERSIOFSKY  
Assistant State Soil Scientist

Attachment

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b>		3. Date of Land Evaluation Request <b>8/11/06</b>	4.
1. Name of Project <b>May Branch</b>	5. Federal Agency Involved <b>USACE</b>		
2. Type of Project <b>Drainage Corridor</b>	6. County and State <b>Sebastian County, Arkansas</b>		

<b>PART II (To be completed by NRCS)</b>		1. Date Request Received by NRCS <b>7/28/06</b>	2. Person Completing Form <b>Edgar Mersiovsky</b>
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 <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: %	4. Acres Irrigated   Average Farm Size	
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	7. Amount of Farmland As Defined in FPPA Acres: %	
		10. Date Land Evaluation Returned by NRC	

<b>PART III (To be completed by Federal Agency)</b>	<b>Alternative Corridor For Segment</b>			
	<b>Corridor A</b>	<b>Corridor B</b>	<b>Corridor C</b>	<b>Corridor D</b>
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>PART IV (To be completed by NRCS) Land Evaluation Information</b>				
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	<b>0</b>			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				

**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)**

<b>PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))</b>	<b>Maximum Points</b>				
1. Area in Nonurban Use	15				
2. Perimeter in Nonurban Use	10				
3. Percent Of Corridor Being Farmed	20				
4. Protection Provided By State And Local Government	20				
5. Size of Present Farm Unit Compared To Average	10				
6. Creation Of Nonfarmable Farmland	25				
7. Availability Of Farm Support Services	5				
8. On-Farm Investments	20				
9. Effects Of Conversion On Farm Support Services	25				
10. Compatibility With Existing Agricultural Use	10				
<b>TOTAL CORRIDOR ASSESSMENT POINTS</b>	<b>160</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>PART VII (To be completed by Federal Agency)</b>					
Relative Value Of Farmland (From Part V)	<b>100</b>				
Total Corridor Assessment (From Part VI above or a local site assessment)	<b>160</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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 <input type="checkbox"/> NO <input type="checkbox"/>
-----------------------	---	-----------------------	--

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

# ADEQ

ARKANSAS  
Department of Environmental Quality

August 14, 2006

Mr. Jim D. Ellis  
U.S. Army Corps of Engineers – LR Dist.  
Planning & Environmental Office  
P.O. Box 867  
Little Rock, Arkansas 72203-0867

RE: May Branch - Fort Smith, Arkansas Project

Dear Mr. Ellis:

The Arkansas Department of Environmental Quality has reviewed the information submitted in the referenced project. The Water Division offers the following comments:

- The project will need to comply with the requirements for NPDES Stormwater Program.
- Obtain a Section 401 Water Quality certification, in conjunction with any Section 404 permit issued.
- And, best management practices should be incorporated into the design to minimize impacts of construction to surface waters.

Thank you for the opportunity to comment and if you have any questions or concerns, please contact Keith Brown at (501) 682-0653.

Sincerely,



Nathaniel P. Nehus  
Chief Ecologist



# Arkansas Department of Health and Human Services



## Division of Health

**Paul K. Halverson, DrPH, Director**

**Engineering Section – Environmental Health Branch – Center for Local Public Health**

---

Postal Address	P. O. Box 1437, Slot H-37	Little Rock, AR 72203-1437	1-501-661-2623	TDD: 1-800-234-4399
Physical Address for UPS or Fedex	4815 West Markham St., Slot H-37	Little Rock, AR 72205	Fax: 1-501-661-2032	

---

August 3, 2006

Roger C. Hicklin, P.E., Acting Chief  
Planning and Environmental Office  
Little Rock District Corps of Engineers  
P.O. Box 867  
Little Rock, AR

Re: May Branch Channelization  
Feasibility Report and Environmental Assessment  
Fort Smith, AR

Dear Mr. Hicklin,

The above reference report was received by this agency and referred to our office by Dr. Paul Halverson, Director. The report has been reviewed and there are no adverse public health impacts anticipated by the proposed work.

If we can be of further assistance, feel free to contact us. The report is being kept for our files.

Sincerely,

Robert Hart, P.E., Chief Engineer  
Engineering Section

Cc: Dr. Paul Halverson, Director, Division of Health



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

AUG 21 2006

Mr. Jim D. Ellis  
U.S. Army Corps of Engineers  
Little Rock District, Planning Branch  
P.O. Box 867  
Little Rock, Arkansas 72203-0867

Dear Mr. Ellis:

The Environmental Protection Agency has reviewed the Draft Feasibility Report and Environmental Assessment and Draft Finding of No Significant Impact for the May Branch, Fort Smith, Arkansas project, dated July 2006.

We concur with the Finding of No Significant Impact and the determination that an environmental impact statement is not warranted. We believe that the planning effort and environmental analyses are very well done and that the project as presently planned complies with the Clean Water Act, Section 404 (b)(1) Guidelines.

Please keep us informed about the status of this project by contacting Jeanene Peckham at 214-665-6411, or [peckham.jeanene@epa.gov](mailto:peckham.jeanene@epa.gov), or at the above mailing address.

Sincerely yours,

A handwritten signature in cursive script that reads "Sharon Fancy Parrish".

Sharon Fancy Parrish  
Chief  
Marine and Wetlands Section



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
110 South Amity Road, Suite 300  
Conway, Arkansas 72032  
Tel.: 501/513-4470 Fax: 501/513-4480

IN REPLY REFER TO:

August 21, 2006

Mr. Jim D. Ellis  
U.S. Army Corps of Engineers  
P.O. Box 867  
Little Rock, Arkansas 72203-0867

Dear Mr. Ellis:

The Fish and Wildlife Service (Service) has reviewed the Draft Feasibility Report, Environmental Assessment, and Finding of No Significant Impact (FONSI) for the May Branch project, Sebastian County, Arkansas supplied with your letter dated July 26, 2006. Our comments are submitted in accordance with the Fish and Wildlife Coordination Act (48 Stat. 401. 16 U.S.C. as amended, 616 et seq.).

The Service notes that our Fish and Wildlife Coordination Act report dated February 27, 2006, has been included in the document along with the Arkansas Game and Fish Commission's (AGFC) letter dated February 17, 2006. As noted in our report, the project is located in an urban area and the fish and wildlife in the project area are low. However, the Arkansas River does support high value aquatic resources. Therefore, provided that the recommendations contained in our report and in the AGDC letter are incorporated into the proposed project, the Service has no objection to the proposed project nor to the FONSI.

We appreciate the opportunity to work with your agency during this study and look forward to working with you in the future.

Sincerely,

Margaret Harney  
Acting Field Supervisor

cc:

Arkansas Game and Fish Commission, Little Rock, Arkansas

Attn: Craig Uyeda

Arkansas Natural Heritage Commission, Little Rock, Arkansas

Attn: Cindy Osborne

Environmental Protection Agency, Dallas, TX



March 15, 2004

US Fish and Wildlife Service  
ATTN: Ms. Margaret Harney  
1500 Museum Road  
Conway, AR 72032

RE: Request for Information Regarding Potential Threatened and Endangered Species Issues,  
Proposed Replacement of Existing Underground Storm Sewer System on May Branch,  
Fort Smith, Sebastian County, Arkansas  
FTN No. 4340-130

Dear Ms. Harney:

FTN Associates, Ltd. (FTN) was selected by the City of Fort Smith to prepare an Environmental Assessment for the replacement of an existing underground storm sewer system that was installed in the early 1900's to replace the original open channel of May Branch (the Project). The enclosed underground storm sewer system, which follows the original course of the May Branch channel and terminates at the P street pumping station near Clayton Expressway, will be replaced by an open channel and attendant drainage/flood control structures. Because runoff from the area of May Branch often exceeds the capacity of the storm sewer system, local flooding of the lower reaches of the basin and a largely commercial and industrial area often causes serious impacts to industrial, commercial, and industrial properties. Implementation of the proposed project will alleviate the flooding problems.

In the past, FTN has coordinated threatened and endangered species issues (and other fish and wildlife resource issues) associated with the May Branch project with your office. In a letter dated August 3, 1999 you wrote: "Our records indicate no endangered or threatened species or their critical habitat exist within or adjacent to May Branch within the city limits of Fort Smith. Therefore, no further consultation in accordance with the ESA will be required.

With this letter, we hereby request confirmation that the information provided in your 1999 clearance letter remains unchanged. Please provide us with any information to the contrary.

Ms. Margaret Harney  
March 15, 2004  
Page 2

Legal descriptions for the proposed project area include parts of Sections 4, 5, 9, 10 and 15, Township 8 North, Range 32 West. The proposed area is encompassed within the following coordinates:

Northwest corner:	35° 24' 40"
	94° 25' 30"
Southwest corner:	35° 22' 30"
	94° 25' 30"
Northeast corner:	35° 24' 00"
	94° 23' 40"
Southeast corner:	35° 24' 00"

If you have questions or need additional information, please feel free to call me or David Rupe (501) 225-7779.

Kindest regards,  
FTN ASSOCIATES, LTD.



Gary E. Tucker, PhD, PWS  
Environmental Scientist

P:\WP\_FILES\4340-130\L-HARNEY-2.DOC

No federally listed endangered,  
threatened or candidate species present

No federally listed endangered,  
threatened or candidate species present



Environmental Coordinator  
U.S. Fish and Wildlife Service

Log# \_\_\_\_\_  
June 24, 2004  
Date





# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

1500 Museum Road, Suite 105  
Conway, Arkansas 72032

IN REPLY REFER TO:

August 3, 1999

Ms. Shannon P. Holbrook  
Environmental Scientist  
FTN Associates, Ltd.  
3 Innwood Circle, Suite 220  
Little Rock, Arkansas 72211

Dear Ms. Holbrook:

The Fish and Wildlife Service has reviewed the information supplied with your letter dated July 28, 1999, requesting information concerning any endangered, threatened or proposed species that may be present in the vicinity of May Branch, within the city of Fort Smith, Sebastian County, Arkansas. Our comments are provided in accordance with the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Our records indicate no endangered or threatened species or their critical habitat exist within or adjacent to May Branch within the city limits of Fort Smith. Therefore, no further consultation in accordance with the ESA will be required.

We appreciate your interest in the preservation of endangered species.

Sincerely,

Margaret Harney  
Environmental Coordinator

cc:

U.S. Army Corps of Engineers, Little Rock, AR  
Attn: Jim Ellis

Arkansas Game and Fish Commission, Little Rock, AR  
Attn: Craig Uyeda

REC'D AUG 05 1999



*Bob*  
*ca*

**RECEIVED**

JUL 2 1999

RIVER BASIN  
July 28, 1999

ARKANSAS GAME & FISH COMMISSION  
Our records indicate no federally listed endangered and/or threatened fish and wildlife species occur in the project area.

Mr. Bob Leonard  
Arkansas Game and Fish Commission  
#2 Natural Resources Drive  
Little Rock, AR 72205

Date: 8-5-99  
Signed: Robert K. Leonard

RE: Request for Information Regarding Potential Threatened and Endangered Species Issues, Proposed Replacement of Existing Underground Storm Sewer System on May Branch, Fort Smith, Sebastian County, Arkansas  
FTN No. 4340-130

Dear Mr. Leonard:

FTN Associates, Ltd. (FTN) has been selected by the City of Fort Smith to prepare an Environmental Assessment for the replacement of an existing underground storm sewer system that was installed in the early 1900's to replace the original open channel of May Branch (the Project). The enclosed underground storm sewer system, which follows the original course of the May Branch channel and terminates at the P street pumping station near Clayton Expressway, will be replaced by an open channel and attendant drainage/flood control structures. Because runoff from the drainage area of May Branch often exceeds the capacity of the storm sewer system, local flooding of the lower reaches of the basin often causes serious impacts to residential, commercial, and industrial properties. Implementation of the proposed project will alleviate the flooding problems.

May Branch lies entirely within the city limits of Fort Smith and has its origin in the south central section of the city. The Project will take place in a highly urbanized environment in which there are few remaining natural environmental features. Although this area lacks a natural vegetative cover, we are requesting information regarding potential federally listed threatened and endangered (T&E) species issues and their habitat and other species of concern within the Project area.

Enclosure 1 provides a general outline of a corridor, based on the USGS topographic quadrangle map Fort Smith ARK-OKL (1987), that includes all project alternatives. We would appreciate receiving information regarding the potential for T&E species issues and their habitat and other species of concern within the outlined corridor, for use in evaluation of potential Project alternatives.

Mr. Bob Leonard

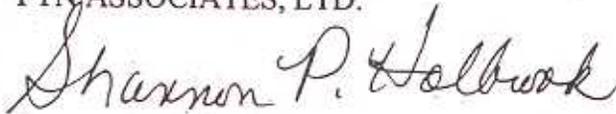
July 28, 1999

Page 2

Legal descriptions for the proposed project area include parts of Sections 4, 5, 9, 10 and 15, Township 8 North, Range 32 West.

If you have questions or need additional information, please feel free to call me or Dr. Gary Tucker at 225-7779.

Kindest regards,  
FTN ASSOCIATES, LTD.



Shannon P. Holbrook  
Environmental Scientist

Enclosure

P:\WP\_FILES\4340-130\L-LEONRD.WPD\GET



**AHPP**

**JUL 30 1999**

July 28, 1999

37890

REC'D

Ms. Cathy Slater  
 State Historic Preservation Office  
 1500 Tower Building, 323 Center  
 Little Rock, AR 72201

RE: Request for Information Regarding Cultural Resources Issues, Proposed Replacement of Existing Underground Storm Sewer System on May Branch, Fort Smith, Sebastian County, Arkansas  
 FTN No. 4340-130

Dear Ms. Slater:

FTN Associates, Ltd. (FTN) has been selected by the City of Fort Smith to prepare an Environmental Assessment for the replacement of an existing underground storm sewer system that was installed in the early 1900's to replace the original open channel of May Branch (the Project). The enclosed underground storm sewer system, which follows the original course of the May Branch channel and terminates at the P street pumping station near Clayton Expressway, will be replaced by an open channel and attendant drainage/flood control structures. Because runoff from the drainage area of May Branch often exceeds the capacity of the storm sewer system, local flooding of the lower reaches of the basin often causes serious impacts to residential, commercial, and industrial properties. Implementation of the proposed project will alleviate the flooding problems.

May Branch lies entirely within the city limits of Fort Smith and has its origin in the south central section of the city. The Project will take place in a highly urbanized environment in which there are few remaining natural environmental features. Enclosure 1 provides a map of the proposed project area. Legal descriptions for the proposed project area include parts of Sections 4, 5, 9, 10 and 15, Township 8 North, Range 32 West.

We are requesting information regarding potential impacts on significant historic or prehistoric cultural resources within the Project area.

If you have questions or need additional information, please feel free to call me or Dr. Gary Tucker at 225-7779.

Kindest regards,  
 FTN ASSOCIATES, LTD.

Shannon P. Holbrook  
 Environmental Scientist

Enclosures  
 PAWP\_FILES\4340-130\SLATER WFD\GET

Date 7/30/99  
 This undertaking will have no effect on significant historic properties.

Cathy Buford Slater  
 State Historic Preservation Officer



ARKANSAS NATURAL HERITAGE COMMISSION  
1500 TOWER BUILDING  
323 CENTER STREET  
LITTLE ROCK, ARKANSAS 72201



Harold K. Grimmett  
Director

Mike Huckabee  
Governor

Date: August 12, 1999  
Subject: Elements of Special Concern  
Storm Sewer System, May Branch  
Fort Smith, Arkansas  
FTN No. 4340-130  
ANHC No.: P-CF..-99-072

Ms. Shannon Holbrook  
FTN Associates, Ltd.  
3 Innwood Circle  
Suite 220  
Little Rock, AR 72211

Dear Ms. Holbrook:

Staff members of the Arkansas Natural Heritage Commission have reviewed our files for records indicating the occurrence of rare plants and animals, outstanding natural communities, natural or scenic rivers, or other elements of special concern within or near the May Branch Storm Sewer System in Fort Smith, Sebastian County, Arkansas. We find no records at the present time.

A Sebastian County Element List is enclosed for your reference. Represented on this list are elements for which we have records in our database. A legend is enclosed to help you interpret the codes on the list.

Please keep in mind that the project area may contain important natural features of which we are unaware. Staff members of the Arkansas Natural Heritage Commission have not conducted a field survey of the project site. Our review is based on data available to the program at the time of the request. It should not be regarded as a final statement on the elements or areas under consideration, nor should it be substituted for on-site surveys required for environmental assessments. Because our files are updated constantly, you may want to check with us again at a later time.

Thank you for consulting us. It has been a pleasure to work with you on this study.

Sincerely,

A handwritten signature in cursive script that reads "Cindy Osborne".

Cindy Osborne  
Data Manager

Enclosure: Legend  
Sebastian County Element List  
Invoice

An Agency of the Department of Arkansas Heritage An Equal Opportunity Employer  
Phone (501) 324-9619 / Fax (501) 324-9618 / TDD (501) 324-9811  
<http://www.heritage.state.ar.us/nhc/>

REC'D AUG 13 1999

## LEGEND

### STATUS CODES

#### FEDERAL STATUS CODES

- C = Candidate species. The U.S. Fish and Wildlife Service has enough scientific information to warrant proposing these species for listing as endangered or threatened under the Endangered Species Act.
- LE = Listed Endangered; the U.S. Fish and Wildlife Service has listed these species as endangered under the Endangered Species Act.
- LT = Listed Threatened; the U.S. Fish and Wildlife Service has listed these species as threatened under the Endangered Species Act.
- LELT = Listed Endangered and Threatened; the U.S. Fish and Wildlife Services has listed these species as endangered and threatened in different parts of the breeding range.
- PE = Proposed Endangered; the U.S. Fish and Wildlife Service has proposed these species for listing as endangered.
- PT = Proposed Threatened; the U.S. Fish and Wildlife Service has proposed these species for listing as threatened.
- T/SA  
E/SA = Threatened (or Endangered) because of similarity of appearance.

#### STATE STATUS CODES

- INV = Inventory Element; The Arkansas Natural Heritage Commission is currently conducting inventory work on these elements to determine their status in the state. These elements may include outstanding examples of Natural Communities, colonial nesting sites, outstanding scenic and geologic features as well as plants and animals which, according to current information, may be rare, peripheral, or of an undetermined status in the state.
- SE = State Endangered; The Arkansas Natural Heritage Commission applies this term to native taxa which are in danger of being extirpated from the state.
- ST = State Threatened; The Arkansas Natural Heritage Commission applies this term to native taxa which are believed likely to become endangered in Arkansas in the foreseeable future, based on current inventory information.

### DEFINITION OF RANKS

#### Global Ranks

- G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
- G2 = Imperiled globally because of rarity (6-20 occurrences or few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
- G3 = Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 - 100.
- G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.

23 MAR 1999

ARKANSAS NATURAL HERITAGE COMMISSION  
 DEPARTMENT OF ARKANSAS HERITAGE  
 INVENTORY RESEARCH PROGRAM  
 ELEMENTS OF SPECIAL CONCERN  
 SEBASTIAN COUNTY, ARKANSAS

ELEMENT NAME	FEDERAL STATUS	STATE STATUS	GLOBAL RANK	STATE RANK
<b>** Animals</b>				
* Invertebrates				
<u>NICROPHORUS AMERICANUS</u> , AMERICAN BURYING BEETLE	LE	INV	G1	S?
* Vertebrates				
<u>AIMOPHILA AESTIVALIS</u> , BACHMAN'S SPARROW	-	INV	G3	S3B
<u>AMMODRAMUS SAVANNARUM</u> , GRASSHOPPER SPARROW	-	INV	G5	S3B
<u>CEMOPHORA COCCINEA COPEI</u> , NORTHERN SCARLET SNAKE	-	INV	G5T5	S2?
<u>DENDROICA PETECHIA</u> , YELLOW WARBLER	-	INV	G5	S3B, S5N
<u>HALIAEETUS LEUCOCEPHALUS</u> , BALD EAGLE	LT	INV	G4	S2B, S3N
<u>HIODON ALOSOIDES</u> , GOLDEYE	-	INV	G5	S2?
<u>MACROCLEMYS TEMMINCKII</u> , ALLIGATOR SNAPPING TURTLE	-	INV	G3G4	SU
<u>PHENACOBIOUS MIRABILIS</u> , SUCKERMOUTH MINNOW	-	INV	G5	S1
<u>POLYODON SPATHULA</u> , PADDLEFISH	-	INV	G4	S2?
<u>REGINA RIGIDA SINICOLA</u> , GULF CRAYFISH SNAKE	-	INV	G5T5	S2?
<u>REITHRODONTOMYS HUMULIS</u> , EASTERN HARVEST MOUSE	-	INV	G5	S1?
<u>STERNA ANTILLARUM ATHALASSOS</u> , INTERIOR LEAST TERN	LE	INV	G4T2Q	S2B
<u>TERRAPENE ORNATA ORNATA</u> , ORNATE BOX TURTLE	-	INV	G5T5	S2
<u>THRYOMANES BEWICKII</u> , BEWICK'S WREN	-	INV	G5	S2B, S3N
<b>** Plants</b>				
* Vascular Plants				
<u>CAREX GRAVIDA</u> VAR. <u>GRAVIDA</u> , A SEDGE	-	INV	G5T?	S2
<u>COOPERIA DRUMMONDII</u> , EVENING RAINLILY	-	INV	G5	S1S2
<u>EQUISETUM LAEVIGATUM</u> , SMOOTH SCOURING RUSH	-	INV	G5	S1
<u>IVA ANGUSTIFOLIA</u> , NARROWLEAF MARSH-ELDER	-	INV	G5?	S1
<u>LITHOSPERMUM INCISUM</u> , NARROW-LEAVED PUCCOON	-	INV	G5	S2S3
<u>MINUARTIA DRUMMONDII</u> , DRUMMOND'S SANDWORT	-	INV	G5	S2S3
<u>QUERCUS ACERIFOLIA</u> , MAPLE-LEAVED OAK	-	ST	G1	S1
<b>** Natural Communities</b>				
TALLGRASS PRAIRIE	-	INV	-	S2

Department of Arkansas Heritage



Arkansas Natural



Konecny Prairie Natural Area

Submitted to:

Governor Mike Huckabee and the General Assembly

December 1, 2002

**Arkansas Natural Heritage Commission**  
**Department of Arkansas Heritage**  
**Inventory Research Program**  
**Sebastian County**

Scientific Name	Common Name	Federal Status	State Status	Global Rank	State Rank
<b>Animals-Invertebrates</b>					
<i>Lucanus elephas</i>	giant stag beetle	-	INV	G3G5	S?
<i>Nicrophorus americanus</i>	American burying beetle	LE	INV	G2G3	S?
<b>Animals-Vertebrates</b>					
<i>Cemophora coccinea copei</i>	northern scarlet snake	-	INV	G5T5	S5
<i>Haliaeetus leucocephalus</i>	bald eagle	LT-PD	INV	G4	S2B,S4N
<i>Hiodon alosoides</i>	goldeye	-	INV	G5	S2?
<i>Hybognathus placitus</i>	plains minnow	-	INV	G4	SX
<i>Macrochelys temminckii</i>	alligator snapping turtle	-	INV	G3G4	S4
<i>Phenacobius mirabilis</i>	suckermouth minnow	-	INV	G5	S1
<i>Polyodon spathula</i>	paddlefish	-	INV	G4	S2?
<i>Regina rigida sinicola</i>	gulf crayfish snake	-	INV	G5T5	S3
<i>Reithrodontomys humulis</i>	eastern harvest mouse	-	INV	G5	S1?
<i>Sterna antillarum athalassos</i>	interior least tern	LE	INV	G4T2Q	S2B
<i>Terrapene ornata ornata</i>	ornate box turtle	-	INV	G5T5	S2
<i>Thryomanes bewickii</i>	Bewick's wren	-	INV	G5	S2B,S3N
<b>Plants-Vascular</b>					
<i>Carex grvida var grvida</i>	a sedge	-	INV	G5T5?	S2
<i>Cooperia drummondii</i>	evening rainlily	-	INV	G5	S1S2
<i>Equisetum laevigatum</i>	smooth scouring rush	-	INV	G5	S1
<i>Iva angustifolia</i>	narrowleaf marsh-elder	-	INV	G5?	S1
<i>Lithospermum incisum</i>	narrow-leaved puccoon	-	INV	G5	S2S3
<i>Minuartia drummondii</i>	Drummond's sandwort	-	INV	G5	S2S3
<i>Quercus acerifolia</i>	maple-leaved oak	-	ST	G1	S1
<i>Valerianella nuttallii</i>	Nuttall corn-salad	-	INV	G1G2	S1
<b>Special Elements-Natural Communities</b>					
Post oak-blackjack oak forest		-	INV	-	S2
Tallgrass prairie		-	INV	-	S2



APPENDIX A  
Section B  
Socioeconomic Data



[Back Home](#)



This section is full of those boring official government numbers that we use to prove that a) Life is Worth Living in Fort Smith, Arkansas, or, b) Fort Smith is the Perfect Home for Business and You.

Take your pick.

- [SOS! \(Search Our Site\)](#)
- [Perfect Homes](#)
- [Excellent Education](#)
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- [2002 Economic Data Report](#)
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- [Frequently Asked Questions](#)

Fort Smith Chamber of Commerce  
 P.O. Box 1668  
 Fort Smith, AR 72902  
 479.783.6118  
 fax 479.783.6110

**2000 Population Data**

Fort Smith .....	80,268
Sebastian County .....	115,071
Crawford County .....	53,247
<b>Fort Smith Regional Trade Area .....</b>	<b>312,850</b>

Source: Bureau of the Census 2000 report  
 Regional Trade area includes Crawford, Franklin, Logan, Scott and Sebastian Counties in Arkansas and Haskell, LeFlore and Sequoyah Counties in Oklahoma.

**Census Data**

<b>FORT SMITH CITY:</b>	<b>2000 POPULATION</b>	<b>1990</b>
<b>POPULATION</b>		
Total Population:	80,268	72,798
White:	61,798 - 76.9%	62,790 -
90.2%		
Black:	6,943 - 8.6%	5,590 - 6.8%
Others:	11,527 - 14.3%	4,418 - 3.0%
Total Non Whites:	18,470 - 23.0%	10,008 -
9.8%		

**FORT SMITH M.S.A.** (Three Counties - Sebastian and Crawford in Arkansas and Sequoyah in Oklahoma)

	<b>2000 POPULATION</b>	<b>1990</b>
<b>POPULATION</b>		
Total Population:	202,146	175,911
White:	170,380 - 84.3%	155,580 - 88.4%
Black:	8,276 - 4.1%	6,831 - 3.9%
Others:	23,490 - 11.6%	13,500 - 7.7%
Total Non Whites:	31,766 - 15.7%	20,331 -

11.6%

---

**FORT SMITH REGION**Economic/Census Profile - 2001 (Sebastian, Crawford and Sequoyah Counties)  
(Source: Sales and Marketing Management - August 2001)Population - 209,700  
Median Age of Population - 36.2  
Number of Households - 81,200

## Percent of Households by Income Groups

\$20,000 - \$34,999.....25.5%  
\$35,000 - \$49,999.....17.8%  
\$50,000 and up.....24.9%

Median Household Effective Buying Income - \$30,306

**Retail Sales by Store Group (\$000)**Food.....\$232,899  
Eating and Drinking Est.....\$218,085  
General Merchandise.....\$463,522  
Furniture/Appliances.....\$118,871  
Automotive.....\$692,573

Source: Sales and Marketing Management, August 2001

---

**Fort Smith MSA Cost of Living Index for First Quarter of 2002  
(Released June 2002)**U.S. Composite Index.....100.0  
Fort Smith AR.....89.6  
Fayetteville/  
Springdale-Rogers AR.....92.6  
Los Angeles CA.....135.3  
Nashville TN.....91.2  
Denver CO.....106.5  
Atlanta GA.....99.0  
Shreveport LA.....94.6  
Jackson MS.....92.4  
Springfield MO.....90.1  
Omaha NE-IA.....91.9  
Albuquerque NM.....103.7  
New York NY.....218.6  
Charlotte NC.....95.1  
Memphis TN-AR-MS.....89.4  
Dallas TX.....100.6  
Richmond VA.....104.4  
Cheyenne WY.....97.7Source: American Chamber of Commerce Researchers Association  
Comparative Data survey of 323 Urban areas since 1968.

**Labor Force Numbers (July 2002)**

## Unemployment Rate

Fort Smith MSA	4.6%
Sebastian County	4.3%
Arkansas	5.7%
United States	6.0%

Total Nonfarm Payroll Jobs.....	99,500
Goods Producing.....	31,500
Service Sector.....	68,000
- Trade:	20,500
- Finance	3,100
- Health	11,000
- Government	11,000

**Fort Smith Building Permits**

<i>Year</i>	<i>Permits</i>	<i>Valuation</i>
2001	2,638	\$128,753,601
2000	2,467	\$141,913,542
1999	2,376	\$151,756,617
1998	2,356	\$118,276,986
1997	2,172	\$81,416,413
1996	3,308	\$98,027,759
1995	2,257	\$86,945,520
1994	2,029	\$71,485,818
1993	1,921	\$73,377,205
1992	1,926	\$49,709,385
1991	1,789	\$52,769,223
1990	1,637	\$46,209,199
1989	1,837	\$55,297,555

Source: City of Fort Smith

**Assessed Valuation of Real & Personal Property in Fort Smith**

2001.....	\$884,433,620
2000.....	\$826,333,175
1999.....	\$767,766,200
1998.....	\$721,781,327
1997.....	\$695,841,285
1996.....	\$684,852,065
1995.....	\$639,223,630
1994.....	\$599,675,660
1993.....	\$576,955,805
1992.....	\$560,295,250
1991.....	\$544,217,480

(all figures exclude utilities)

Source: Sebastian County Assessor's Office

## 2000 Fort Smith Crime Index

	Fort Smith MSA(a)	West South Central(b)	United States
Total Crime Index.....	7,174.0	4,907.0	4,124.0
Violent Crime.....	N/A	550.7	506.1
Property Crime.....	N/A	4,356.2	3,617.9

(rates per 100,000 inhabitants) Source: 2000 FBI National Uniform Crime Reports - released March 2001

(a) Sebastian, Crawford Counties in Arkansas and Sequoyah County in Oklahoma

(b) Arkansas, Louisiana, Oklahoma and Texas

---

## Tax Structures

### *Local Sales Tax:*

State - 5.125%, City - 2.25%\*, County-wide - 1%; Total 8.375%

\* collected on the first \$2,500 of a single purchase sale.

### *Corporate Income Tax*

The tax in Arkansas is based on net income and is adjusted by a formula that determines how much of the income is applicable to the Arkansas operation. The rate is on a scale of 1 to 6 percent on the first \$100,000 of taxable income. Net taxable income greater than \$100,000 is taxed at 6.5 percent of the entire amount of the total income.

### *Sales and Use Taxes*

The Arkansas sales tax is 5.125 percent and is paid by the consumer at the point of final sale. The Arkansas compensating use tax of 4.5 percent is levied on property purchased from outside the state for use in the state.

### *Exemptions, Credits, and Refunds*

Not only is Arkansas committed to continuing standard sales and use tax exemptions for machinery and equipment used in manufacturing, our state has redefined the term "manufacturing" to include exemptions for technologically advanced equipment used in the manufacturing process.

Businesses that purchase waste reduction, reuse, or recycling equipment used exclusively for the purpose of reducing, reusing, or recycling solid waste are eligible for a corporate income tax credit of 30 percent of the cost of the equipment.

An investment tax credit against sales and use taxes is available for manufacturing companies that have been in operation in the state for at least two years and make substantial new investments in plants and equipment.

Arkansas' Free Port Law exempts from inventory or property taxes raw materials and finished goods in transit or awaiting shipment of out-of-state customers.

### *Property Taxes*

Arkansas does not have a state property tax. Arkansas' cities and counties collect a property tax as their principal source of revenue. The tax is calculated on 20 percent of fair market value.

*Unemployment Insurance Tax*

The Unemployment Insurance Tax rate for an employer with no previous employment record is 4.0 percent on the first \$8,500 of each employee's earnings. This rate stays in effect until the company's experience with its work force is established, usually three years. Once the company's employment record has been established by the Arkansas Employment Security Department, the contribution rate is based on the company's history.

New employers who do not experience much fluctuation in their work force after three years of benefit experience could have a contribution as low as 1.2 percent assigned. The rates could go as high as 7.1 percent if benefits exceed contributions for more than two years. The average contribution rate for Arkansas employers in 1992 was 2.4 percent, and the average weekly benefit for 1992 was \$150.63. Arkansas' Unemployment Insurance Trust Fund balance is \$64.7 million.

*Other*

A summary of all Arkansas tax rates is available from the Fort Smith Chamber of Commerce.

---

Thoughts? Comments? Questions? [Let us know.](#)

## Fort Smith Population and Demographics



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### Fort Smith City, Arkansas Statistics and Demographics (US Census 2000)

	Number	Percent
<b>Fort Smith Population:</b>	80268	100.00%

#### Sex and Age

Male	38918	48.49%
Female	41350	51.51%

Under 5 years	6083	7.58%
5 to 9 years	5581	6.95%
10 to 14 years	5363	6.68%
15 to 19 years	5586	6.96%
20 to 24 years	5681	7.08%
25 to 34 years	11454	14.27%
35 to 44 years	12040	15%
45 to 54 years	10513	13.1%
55 to 59 years	3884	4.84%
60 to 64 years	3082	3.84%
65 to 74 years	5376	6.7%
75 to 84 years	4113	5.12%
85 years and over	1512	1.88%

Median age (years)	35.3
--------------------	------

18 years and over	59862	74.58%
Male	28527	35.54%
Female	31335	39.04%
21 years and over	56499	70.39%
62 years and over	12790	15.93%
65 years and over	11001	13.71%
Male	4207	5.24%
Female	6794	8.46%

#### Race

One race	77864	97.01%
White	61798	76.99%
Black or African American	6943	8.65%
American Indian and Alaska Native	1358	1.69%
Asian	3682	4.59%

Asian indian	107	0.13%
Chinese	149	0.19%
Filipino	81	0.1%
Japanese	36	0.04%
Korean	49	0.06%
Vietnamese	1641	2.04%
Other Asian	1619	2.02%
Native Hawaiian and Other Pacific Islander	43	0.05%
Native Hawaiian	3	0%
Guamanian or Chamorro	22	0.03%
Samoan	1	0%
Other Pacific Islander	17	0.02%
Some other race	4040	5.03%
Two or more races	2404	3.0%

**Hispanic or Latino and race**

Total Population	80268	100.00%
Hispanic or Latino(of any race)	7048	8.78%
Mexican	5068	6.31%
Puerto Rican	144	0.18%
Cuban	78	0.1%
Other Hispanic or Latino	1758	2.19%
Not Hispanic or Latino	73220	91.22%
White alone	59436	74.05%

**Relationship**

Total Population	80268	100.00%
In households	78278	97.52%
Householder	32398	40.36%
Spouse	15274	19.03%
Child	22554	28.1%
Own child under 18 years	18206	22.68%
Other relatives	4064	5.06%
Under 18 years	1571	1.96%
Nonrelatives	3988	4.97%
Unmarried partner	1656	2.06%
In group quarters	1990	3.6%
Institutionalized population	1632	2.03%
Noninstitutionalized population	358	0.45%

**Households by Type**

Total Households	32398	100.0%
Family households (families)	20647	63.73%
With own children under 18 years	9971	30.78%
Married-couple family	15274	47.14%
With own children under 18 years	6699	20.68%
Female householder, no husband present	3989	12.31%
With own children under 18 years	2530	7.81%

NonFamily households	11751	36.8 %
Householder living alone	9950	30.71%
Householder 65 years and over	3529	10.89%
Households with individuals under 18 years	10942	33.77%
Households with individuals 65 years and over	7618	23.51%
Average Household size	2.42	
Average family size	3.03	
<b>Housing Occupancy</b>		
Total housing units	35341	100.00%
Occupied housing units	32398	91.67%
Vacant housing units	2943	8.33%
For seasonal, recreational, or occasional use	144	0.41%
Homeowner vacancy rate (percent)	2.5	
Rental vacancy rate (percent)	8.1	
<b>Housing Tenure</b>		
Occupied housing units	32398	100.00%
Owner-occupied housing units.	18253	56.34%
Renter-occupied housing units.	14145	43.66%
Average household size of owner-occupied units	2.52	
Average household size of renter-occupied units	2.29	

Based on 2000 US Census data. For more information on population visit [U.S. Census Bureau](#), providing access to a full range of U.S. Census information and data products.



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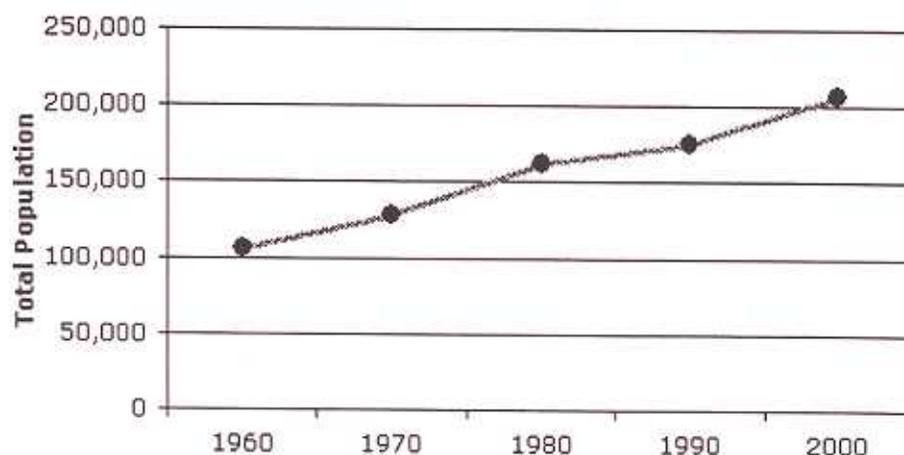
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## Fort Smith, AR-OK

### POPULATION GROWTH

Population, 1960-2000



One of the primary purposes of the census is to measure who lives where. Although the nation as a whole has continued to grow, this growth has been far from uniform: between 1990 and 2000, 684 of the nation's 3142 counties reported a population loss, many of them in the Great Plains states. At the same time, five counties, three in Colorado and two in Georgia, more than doubled their population between 1990 and 2000, and another 80 counties experienced growth rates greater than 50%. Altogether, 1109 of the nation's counties reported growth that exceeded the national growth rate of approximately 13% between 1990 and 2000. For more information on population growth in the United States, see our rankings.

#### Population, 1960-2000

	1960	1970	1980	1990	2000
<b>Total</b>	106,004	128,284	162,813	175,911	207,290
<b>Change</b>		22,280	34,529	13,098	31,379
<b>Percent Change</b>		21.0%	26.9%	8.0%	17.8%

**Source:** Census 2000 analyzed by the Social Science Data Analysis Network (SSDAN).

**Fort Smith, AR-OK**

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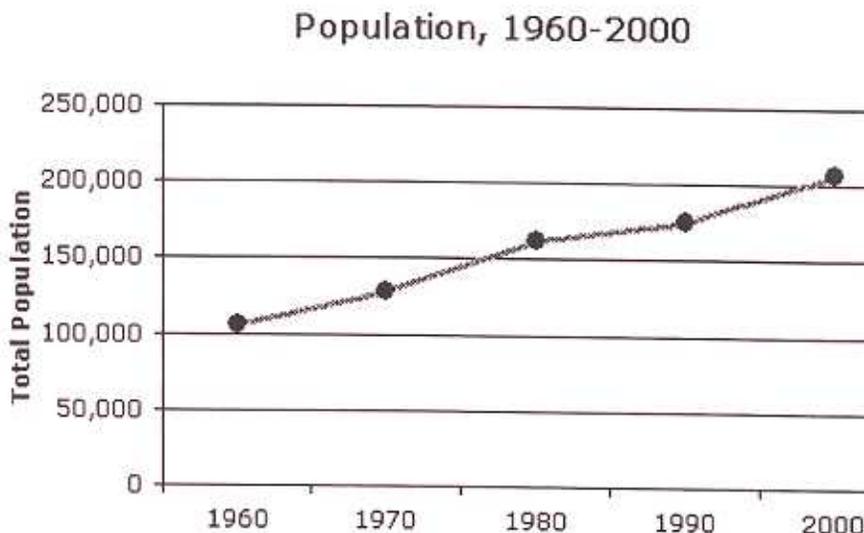
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- Population by Race
- Multiracial Profile
- Age Distribution
- Household & Family Structure
- ▶ Educational Attainment
- ▶ Language
- ▶ Migration
- ▶ Nativity & Citizenship Status
- ▶ Income

**CHANGE LOCATION**

Zoom in and out of geography at levels: US, States or Metro Areas, and Counties within States.

You can **zoom out** to United States

**POPULATION GROWTH**



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**ssdan.net**

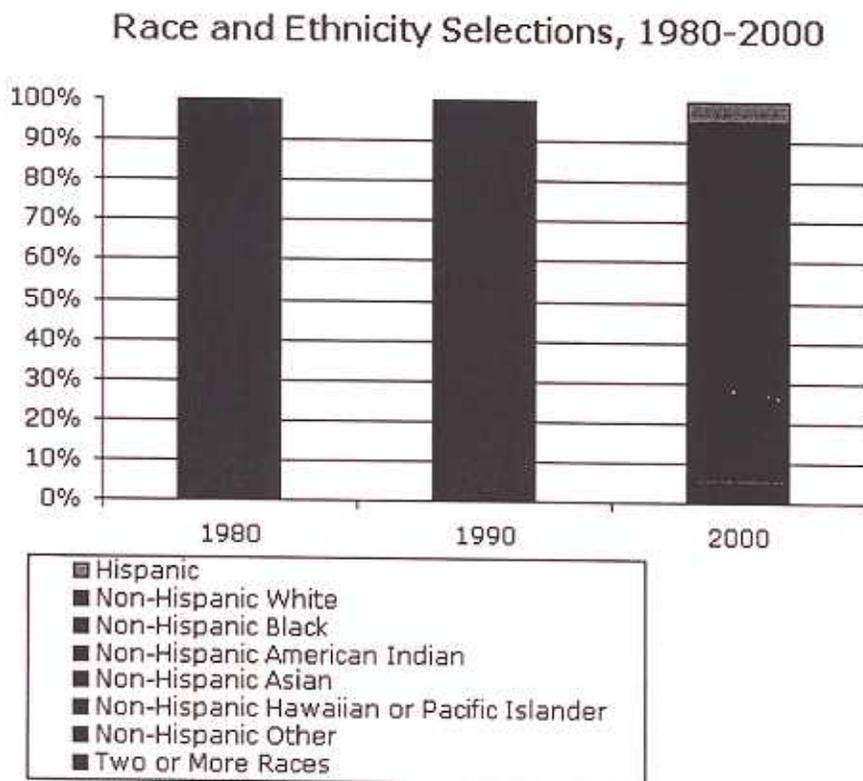
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## Fort Smith, AR-OK

### POPULATION BY RACE



Census data on race and ethnicity can be difficult to interpret: "race" and "Hispanic ethnicity" are asked as separate questions. Thus, a Hispanic person can be of any race. Changes over time in the Census categories regarding race can also make trend data difficult to interpret: for example, persons who selected "Native Hawaiian or Other Pacific Islander" on the 2000 Census, the first to offer this category, could have responded in a number of different ways on previous Censuses. The 2000 Census also marked the first time that respondents were allowed to select more than one racial category. On earlier Censuses, multiracial individuals were asked to choose a single racial category, or respond as Some Other Race. For more information on the multiracial population in 2000, please see the multiracial profile .

**Hispanic Population and Race Distribution for Non-Hispanic Population**

	1980		1990		2000	
	Number	Percent	Number	Percent	Number	Percent
<b>Total Population</b>	162,813	100.00%	175,911	100.00%	207,290	100.00%
<b>Total Hispanics</b>	1,348	0.83%	2,120	1.21%	10,246	4.94%
<b>White*</b>	147,441	90.56%	154,363	87.75%	166,605	80.37%
<b>Black*</b>	6,105	3.75%	6,760	3.84%	8,189	3.95%
<b>American Indian and Eskimo*</b>	6,242	3.83%	8,955	5.09%	10,290	4.96%
<b>Asian*</b>	1,321	0.81%	3,661	2.08%	4,715	2.27%
<b>Hawaiian and Pacific Islander*</b>	-	-	-	-	52	0.03%
<b>Other*</b>	356	0.22%	52	0.03%	105	0.05%
<b>Two or More Races*</b>	-	-	-	-	7,088	3.42%

\* Non-Hispanic only; in 1980 and 1990 "Asians" includes Hawaiians and Pacific Islanders.

**Source:** Census 2000 analyzed by the Social Science Data Analysis Network (SSDAN).

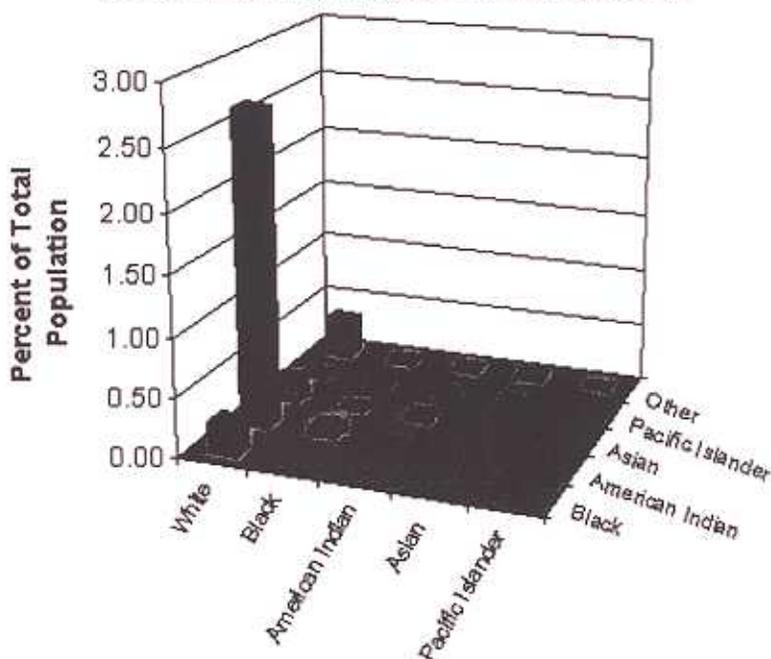
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Fort Smith, AR-OK

## MULTIRACIAL PROFILE

Two Race Multiracial Combinations



The 2000 Census was the first Census that allowed respondents to select more than one race . Nationwide, approximately 2.4% of the population, or over 6.8 million Americans, identified with two or more races. As is the case with many racial and ethnic groups, the multiracial population is not evenly distributed across the U.S.: Hawaii is the most multiracial state, with 24.1% of its population identifying with two or more races, and Alaska following a distant second with a 5.4% multiracial population. The five least most multiracial states, Mississippi, West Virginia, Maine, Alabama and South Carolina, all have multiracial populations of less than 1%. For more on the geography of the U.S. multiracial population, please see our multiracial map .

### Number of Races Selected

	Number	Percent of Total	Percent of Multiracial
<b>Two Races</b>	7,684	3.71%	96.97%
<b>Three Races</b>	220	0.11%	2.78%
<b>Four Races</b>	10	0.00%	0.13%
<b>Five Races</b>	10	0.00%	0.13%
<b>Six Races</b>	0	0.00%	0.00%

### Multiple Race Combinations by Frequency

<b>Rank</b>	<b>Multiple Race Selection</b>	<b>Number</b>	<b>Percent of Total Population</b>	<b>Percent of Multiple Race Population</b>
1.	White and American Indian	5,501	2.65%	69.42%
2.	White and Some Other Race	699	0.34%	8.82%
3.	White and Black	553	0.27%	6.98%
4.	White and Asian	386	0.19%	4.87%
5.	Black and American Indian	171	0.08%	2.16%
6.	Asian and Some Other Race	107	0.05%	1.35%
7.	White and Black and American Indian	79	0.04%	1.00%
8.	American Indian and Some Other Race	61	0.03%	0.77%
9.	American Indian and Asian	57	0.03%	0.72%
10.	White and American Indian and Some Other Race	48	0.02%	0.61%
11.	Black and Some Other Race	43	0.02%	0.54%
12.	White and Hawaiian or Other Pacific Islander	35	0.02%	0.44%
13.	Asian and Hawaiian or Other Pacific Islander	30	0.01%	0.38%
14.	White and American Indian and Asian	26	0.01%	0.33%
15.	White and Black and Some Other Race	20	0.01%	0.25%
16.	Black and Asian	18	0.01%	0.23%
17.	White and Asian and Hawaiian or Other Pacific Islander	16	0.01%	0.20%
18.	Hawaiian or Other Pacific Islander and Some Other Race	14	0.01%	0.18%
19.	White and Asian and Some Other Race	12	0.01%	0.15%
20.	White and Black and American Indian and Asian and Hawaiian or Other Pacific Islander	9	0.00%	0.11%
21.	Black and Hawaiian or Other Pacific Islander	5	0.00%	0.06%
22.	American Indian and Hawaiian or Other Pacific Islander	4	0.00%	0.05%
23.	Black and American Indian and Asian	4	0.00%	0.05%
24.	Black and American Indian and Some Other Race	4	0.00%	0.05%
25.	White and American Indian and Asian and Some Other Race	4	0.00%	0.05%
26.	White and American Indian and Hawaiian or Other Pacific Islander	3	0.00%	0.04%
27.	White and Hawaiian or Other	3	0.00%	0.04%

Pacific Islander and Some Other Race			
28. Black and Asian and Some Other Race	2	0.00%	0.03%
29. White and Black and American Indian and Asian	2	0.00%	0.03%
30. Black and American Indian and Asian and Hawaiian or Other Pacific Islander	2	0.00%	0.03%
31. White and Black and Hawaiian or Other Pacific Islander	1	0.00%	0.01%
32. American Indian and Asian and Hawaiian or Other Pacific Islander	1	0.00%	0.01%
33. Asian and Hawaiian or Other Pacific Islander and Some Other Race	1	0.00%	0.01%
34. White and American Indian and Asian and Hawaiian or Other Pacific Islander	1	0.00%	0.01%
35. White and Asian and Hawaiian or Other Pacific Islander and Some Other Race	1	0.00%	0.01%
36. White and Black and American Indian and Asian and Some Other Race	1	0.00%	0.01%

**Source:** Census 2000 analyzed by the Social Science Data Analysis Network (SSDAN).

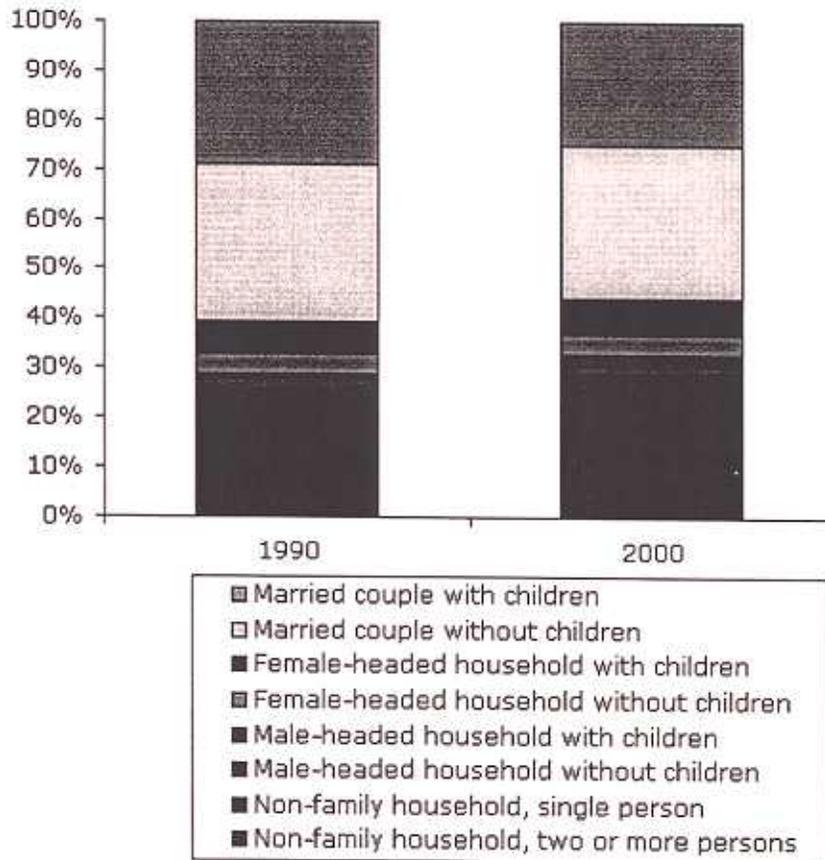
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Fort Smith, AR-OK

## HOUSEHOLD AND FAMILY STRUCTURE

Household Types, 1990-2000



**Household Types, 1990-2000**

	1990		2000	
	Number	Percent	Number	Percent
<b>Total Households</b>	<b>66,884</b>	<b>100.0%</b>	<b>79,763</b>	<b>100.0%</b>
<b>Married Couple</b>	<b>40,670</b>	<b>60.8%</b>	<b>44,600</b>	<b>55.9%</b>
<b>With Children*</b>	19,337	28.9%	19,834	24.9%
<b>Without Children*</b>	21,333	31.9%	24,766	31.0%
<b>Female Householder, no spouse</b>	<b>6,779</b>	<b>10.1%</b>	<b>9,023</b>	<b>11.3%</b>
<b>With Children*</b>	4,149	6.2%	5,639	7.1%
<b>Without Children*</b>	2,630	3.9%	3,384	4.2%
<b>Male Householder, no spouse</b>	<b>1,964</b>	<b>2.9%</b>	<b>3,249</b>	<b>4.1%</b>
<b>With Children*</b>	1,000	1.5%	1,827	2.3%
<b>Without Children*</b>	964	1.4%	1,422	1.8%
<b>Non-Family Households</b>	<b>17,471</b>	<b>26.1%</b>	<b>22,891</b>	<b>28.7%</b>
<b>Living Alone</b>	15,772	23.6%	19,702	24.7%
<b>Two or More Persons</b>	1,699	2.5%	3,189	4.0%

\* For the purposes of this table, "children" are people under age 18.

**Source:** Census 2000 analyzed by the Social Science Data Analysis Network (SSDAN).

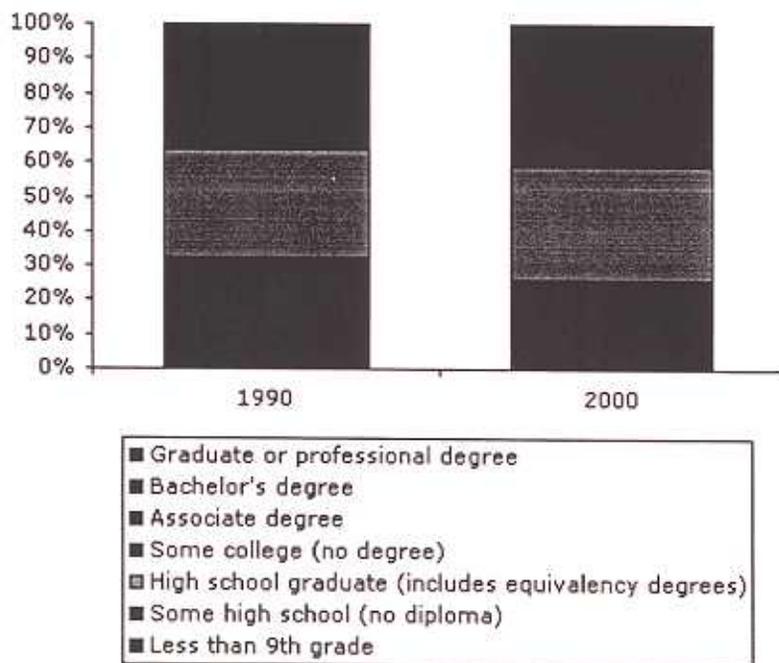
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## Fort Smith, AR-OK

### EDUCATIONAL ATTAINMENT

Educational Attainment, 1990-2000



The Census reports on the level of education attained by adults age 25 and older. As older, less-educated cohorts begin to fade from dominance, younger, more educated groups take their place.

### Educational Attainment in Population 25 Years and Over, 1990-2000

	1990		2000	
	Number	Percent of Total	Number	Percent of Total
Less than 9th grade	15,029	13.45%	12,934	9.70%
Some high school, no diploma	21,272	19.04%	21,611	16.21%
High school graduate*	34,884	31.22%	44,136	33.10%
Some college, no degree	20,964	18.76%	28,482	21.36%
Associate degree	6,369	5.70%	7,799	5.85%
Bachelor's degree	8,896	7.96%	11,889	8.92%
Graduate or professional degree	4,338	3.88%	6,495	4.87%
<b>Total Population Age 25+</b>	<b>111,752</b>	<b>100.00%</b>	<b>133,346</b>	<b>100.00%</b>

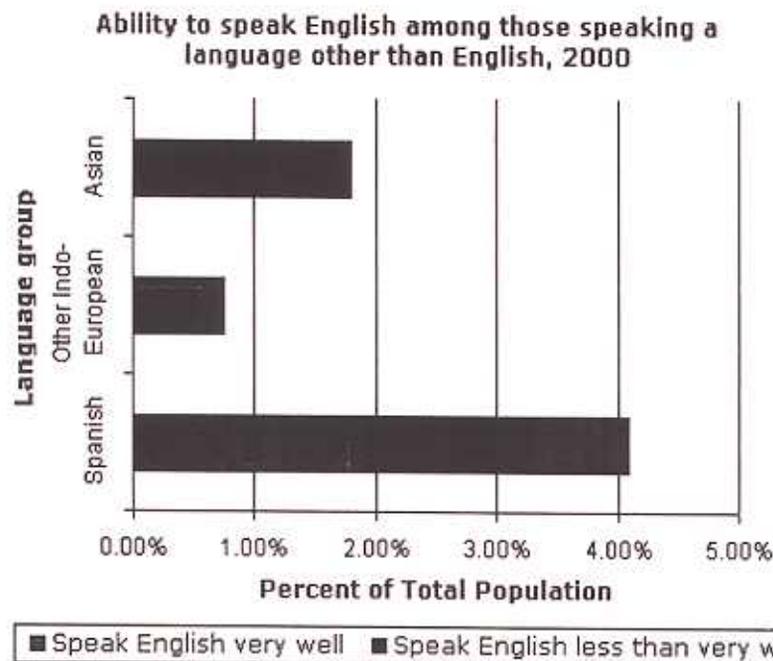
\* "High school graduate" includes people with the G.E.D. and similar equivalents.

# CensusScope

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## Fort Smith, AR-OK

### LANGUAGE



### Language Spoken at Home, 1990-2000

	1990		2000	
	Number	Percent	Number	Percent
Only English	155,904	95.61%	178,142	92.77%
Spanish	1,917	1.18%	7,863	4.09%
Other Indo-European*	1,498	0.92%	1,437	0.75%
Asian Language**	2,761	1.69%	3,455	1.80%
Other	975	0.60%	1,127	0.59%
<b>Total Population Age 5+</b>	<b>163,055</b>	<b>100.00%</b>	<b>192,024</b>	<b>100.00%</b>

### Population Speaking English Less Than "Very Well" in 2000

Language Spoken at Home:	Number	Percent
Spanish	4,429	56.33%
Other Indo-European*	306	21.29%
Asian Language**	2,059	59.59%
Other Language	307	27.24%
<b>Total</b>	<b>7,101</b>	<b>3.70%</b>

**Population Speaking English Less Than "Very Well" in 1990**

<b>Language Spoken at Home:</b>	<b>Number</b>	<b>Percent</b>
<b>Spanish</b>	610	31.82%
<b>Other Indo-European*</b>	319	21.30%
<b>Asian Language**</b>	1,511	54.73%
<b>Other Language</b>	301	30.87%
<b>Total</b>	<b>2,741</b>	<b>1.68%</b>

\* "Other Indo-European" excludes English and Spanish. "Indo-European" is not synonymous with "European." French, German, Hindi, and Persian are all classified as Indo-European. Hungarian, on the other hand, is lumped into "Other Language."

\*\* "Asian Language" includes languages indigenous to Asia and Pacific islands areas that are not also Indo-European languages. Chinese, Japanese, Telugu, and Hawaiian are all classified here.

Also note that ability to speak English "very well" is based on the self-assessment of those responding to Census questions, not on a test of language ability.

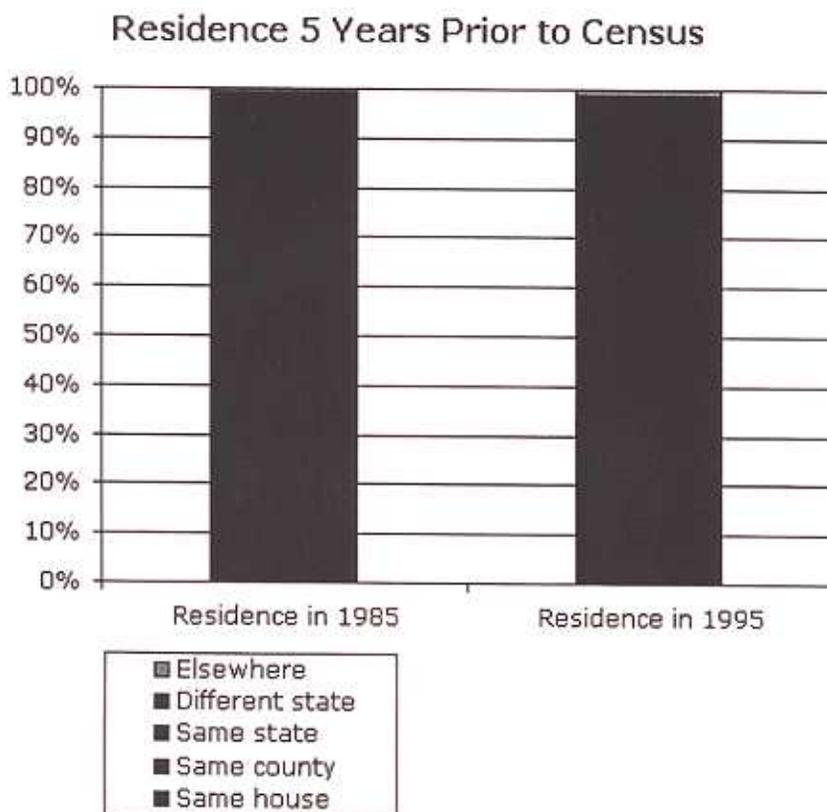
**Source:** Census 2000 analyzed by the Social Science Data Analysis Network (SSDAN).

# CensusScope

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Fort Smith, AR-OK

## MIGRATION & IMMIGRATION



### Migration, 2000: Residence 5 Years Prior to Census

Residence in 1995	Number	Percent
Same house	99,201	51.66%
<b>Different house</b>	<b>92,823</b>	<b>48.34%</b>
Same county	50,136	26.11%
Different county	40,148	20.91%
Same state	18,676	9.73%
Different State	21,472	11.18%
Elsewhere in 1995*	2,539	1.32%
<b>Total Population Age 5+</b>	<b>192,024</b>	<b>100.00%</b>

**Migration, 1990: Residence 5 Years Prior to Census**

<b>Residence in 1985</b>	<b>Number</b>	<b>Percent</b>
<b>Same house</b>	84,664	51.92%
<b>Different house</b>	78,391	48.08%
<b>Same county</b>	42,502	26.07%
<b>Different county</b>	34,669	21.26%
<b>Same state</b>	14,368	8.81%
<b>Different State</b>	20,301	12.45%
<b>Elsewhere in 1985*</b>	1,220	0.75%
<b>Total Population Age 5+</b>	163,055	100.00%

**Source:** Census 2000 analyzed by the Social Science Data Analysis Network (SSDAN).

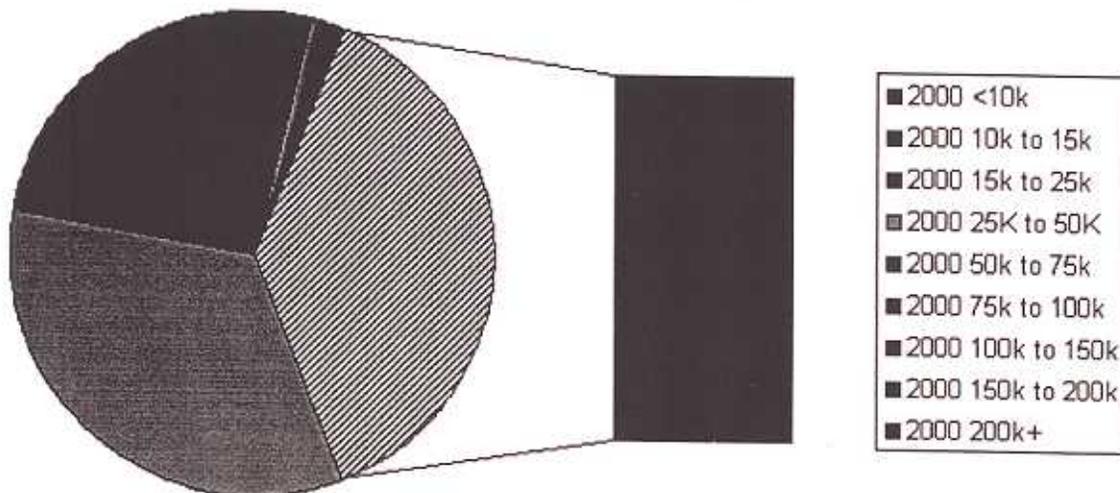
# CensusScope

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Fort Smith, AR-OK

## HOUSEHOLD INCOME

Household Income, 2000 (1999 Income)



The Census does not measure trends in income so much as provide us with a snapshot of a region at two different points in time-- incomes may fluctuate greatly in the ten year interval between Censuses. However, the data still provide us with a general picture of where incomes have risen, where they have fallen, and how much they have changed.

### Household Income, 2000 (1999 Income)

	Number	Percent of Total Households
<b>Total Households</b>	79,818	100.00%
<b>Less than \$9999</b>	9,777	12.25%
<b>\$10000 - \$14999</b>	7,166	8.98%
<b>\$15000 - \$24999</b>	13,284	16.64%
<b>\$25000 - \$34999</b>	12,645	15.84%
<b>\$35000 - \$49999</b>	14,368	18.00%
<b>\$50000 - \$74999</b>	12,930	16.20%
<b>\$75000 - \$99999</b>	5,025	6.30%
<b>\$100000 - \$149999</b>	2,930	3.67%
<b>\$150000 - \$199999</b>	638	0.80%
<b>\$200000 and above</b>	1,055	1.32%

**Household Income, 1990 (1989 Income)**

	<b>Number</b>	<b>Percent of Total Households</b>
<b>Total Households</b>	66,964	100.00%
<b>Less than \$9999</b>	13,846	20.68%
<b>\$10000 - \$14999</b>	8,213	12.26%
<b>\$15000 - \$24999</b>	15,048	22.47%
<b>\$25000 - \$34999</b>	11,691	17.46%
<b>\$35000 - \$49999</b>	9,864	14.73%
<b>\$50000 - \$74999</b>	5,762	8.60%
<b>\$75000 - \$99999</b>	1,175	1.75%
<b>\$100000 - \$149999</b>	798	1.19%
<b>\$150000 and above</b>	567	0.85%

**Income by Decile, 1990-2000**

	<b>1989</b>	<b>1999</b>
	<b>(Adjusted to 1999 dollars)</b>	
<b>10% of households made less than</b>	\$6,496.96	\$8,163.03
<b>20% of households made less than</b>	\$12,993.94	\$14,315.77
<b>30% of households made less than</b>	\$18,540.35	\$20,270.77
<b>40% of households made less than</b>	\$24,372.03	\$26,344.42
<b>50% of households made less than</b>	\$30,350.04	\$32,656.01
<b>60% of households made less than</b>	\$37,116.71	\$40,239.21
<b>70% of households made less than</b>	\$44,811.27	\$48,571.54
<b>80% of households made less than</b>	\$56,773.66	\$62,788.35
<b>90% of households made less than</b>	\$76,533.89	\$83,289.22

**Source:** Census 2000 analyzed by the Social Science Data Analysis Network (SSDAN).

APPENDIX A  
Section C  
Section 404(b) Guidelines



SHORT-FORM  
Evaluation of Section 404(b)(1) Guidelines

Formal review should follow close of public notice comment period.

APPLICANT: \_\_\_\_\_

APPLICATION NUMBER: \_\_\_\_\_

1. Review of Compliance (Section 230.10(a)-(d)).

A review of the permit application indicates that:

Preliminary 1/    Final 2/

a. The discharge represents the least environmentally damaging practicable alternative and if in a special aquatic site, the activity associated with the discharge must have direct access or proximity to, or be located in the aquatic ecosystem to fulfill its basic purpose (if no, see section 2 and information gathered for EA alternative);..... YES  NO( ) \* YES ( ) NO( )

b. The activity does not appear to: 1) violate applicable state water quality standards or effluent standards prohibited under Section 307 of the CWA; 2) jeopardize the existence of Federally listed endangered or threatened species or their habitat; and 3) violate requirements of any Federally designated marine sanctuary (if no, see section 2b and check responses from resource and water quality certifying agencies);..... YES  NO( ) \* YES ( ) NO( )

c. The activity will not cause or contribute to significant degradation of waters of the U.S. including adverse effects on human health, life stages of organisms dependent on the aquatic ecosystem, diversity, productivity and stability, and recreational, aesthetic, and economic values (if no, see section 2);..... YES  NO( ) \* YES ( ) NO( )

d. Appropriate and practicable steps have been taken to minimize potential adverse impacts of the discharge on the aquatic ecosystem (if no, see section 5). ..... YES  NO( ) \* YES ( ) NO( )  
\*1/, 2/ See page 3.

2. Technical Evaluation Factors (Subparts C-F).

N/A    Not Significant    Significant

a. Physical and chemical characteristics of the Aquatic Ecosystem (Subpart C-F)

- 1) Substrate impacts.
- 2) Suspended particulates/turbidity impacts.
- 3) Water column impacts.
- 4) Alteration of current patterns and water circulation.
- 5) Alteration of normal water fluctuations/hydroperiod.
- 6) Alteration of salinity gradients.

	X	
	X	
	X	
	X	
	X	
X		

b. Biological Characteristics of the Aquatic Ecosystem (Subpart D).

- 1) Effect on threatened/endangered species and their habitat.
- 2) Effect on the aquatic food web.
- 3) Effect on other wildlife(mammals, birds, reptiles, amphibians)

	X	
	X	
	X	

c. Special Aquatic sites (Subpart E).

- 1) Sanctuaries and refuges.
- 2) Wetlands.
- 3) Mud flats.
- 4) Vegetated shallows.
- 5) Coral reefs.
- 6) Riffle and pool complexes.

X		
	X	
	X	
X		
X		

d. Human Use Characteristics (Subpart F).

- 1) Effects on municipal and private water supplies.
- 2) Recreational and Commercial fisheries impacts.
- 3) Effects on water-related recreation.
- 4) Aesthetic impacts.
- 5) Effects on parks, national and historical monuments, national seashores, wilderness areas, research sites, similar preserves.

	X	
	X	
	X	
	X	
X		

Remarks: Where a check is placed under the significant category, preparer add explanation below.

3. Evaluation of Dredged or Fill Material (Subpart G). 3/

a. The following information has been considered in evaluating the biological availability of possible contaminants in dredged or fill material. (Check only those appropriate.)

- 1) Physical characteristics..... [ ]
- 2) Hydrography in relation to known or anticipated sources of contaminants..... [ ]
- 3) Results from previous testing of the material or similar material in the vicinity of the project..... [ ]
- 4) Known, significant, sources of persistent pesticides from land runoff or percolation..... [ ]
- 5) Spill records for petroleum products or designated (Section 311 of CWA) hazardous substances..... [ ]
- 6) Other public records of significant introduction of contaminants from industries, cities or other sources..... [ ]
- 7) Known existence of substantial material deposits of substances which could be released in harmful quantities to the aquatic environment by man-induced discharge activities..... [ ]
- 8) Other sources (specify)..... [ ]

List appropriate references (attach sheet if necessary).

b. An evaluation of the appropriate information in 3a above indicates that there is reason to believe the proposed dredge or fill material is not a carrier of contaminants, or that levels of contaminants are substantively similar at extraction and that the dredged material will be constrained and not allowed to flow beyond the boundaries of the disposal site. The material meets the testing exclusion criteria .....YES [ ] NO [ ]

4. Disposal Site Delineation (Section 230.11(f)).

a. The following factors, as appropriate, have been considered in evaluating the disposal site

- 1) Depth of water at disposal site..... [ ]
- 2) Current velocity, direction, and variability at disposal site..... [ ]
- 3) Degree of turbulence..... [ ]
- 4) Water column stratification..... [ ]
- 5) Discharge vessel speed and direction..... [ ]
- 6) Rate of discharge..... [ ]
- 7) Dredged material characteristics (constituents, amount, and type of material, settling velocities) ..... [ ]
- 8) Number of discharges per unit of time..... [ ]
- 9) Other factors affecting rates and patterns of mixing (specify)..... [ ]

List appropriate references (attach sheet if necessary).

b. An evaluation of the appropriate factors in 4a above indicates that the disposal site and/or size of mixing zone are acceptable.....YES [ ] NO [ ]

5. Actions to Minimize Adverse Effects (Subpart H).

All appropriate and practicable steps have been taken, through application of recommendation of Section 230.70-230.77 to ensure minimal adverse effects of the proposed discharge.

List actions taken. (attach sheet if necessary).....YES [ ] NO [ ]

N.B. Return to section 1 for final stage of compliance review. See also note 3/, page 3.

6. Factual Determination (Section 230.11).

A review of appropriate information as identified in items 2-5 above indicates that there is minimal potential for short or long-term environmental effects of the proposed discharge as related to:

- a. Physical substrate at the disposal site (review sections 2a, 3, 4, encl 5 above).....YES[ ] NO[ ]
- b. Water circulation, fluctuation and salinity (review sections 2a, 3, 4, and 5).....YES[ ] NO[ ]
- c. Suspended particulates/turbidity (review sections 2a, 3, 5, and 6).....YES[ ] NO[ ]
- d. Contaminant availability (review sections 2a, 3, and 4).....YES[ ] NO[ ]
- e. Aquatic ecosystem structure and function (review sections 2b and c, 3, and 5).....YES[ ] NO[ ]
- f. Disposal site (review sections 2, 4, and 5).....YES[ ] NO[ ]
- g. Cumulative impact on the aquatic ecosystem.....YES[ ] NO[ ]
- h. Secondary impacts on the aquatic ecosystem. ....YES[ ] NO[ ]

7. Evaluation Responsibility (\*See page 3).

a. This evaluation was prepared by:

b. This evaluation was reviewed by:

Position: Project Manager  
Date: \_\_\_\_\_

Position: Acting Chief, Regulatory Evaluation  
Date: \_\_\_\_\_

8. Findings.

a. The proposed disposal site for discharge of dredged or fill material complies with the Section 404(b)(1) guidelines.....[ ]

b. The proposed disposal site for discharge of dredged or fill material complies with the Section 404(b)(1) guidelines with the inclusion of the following conditions: (attach sheet if necessary).....[ ]

c. The proposed disposal site for discharge of dredged or fill material does not comply with the Section 404(b)(1) guidelines for the following reason(s):

- 1) There is a less damaging practicable alternative.....[ ]
- 2) The proposed discharge will result in significant degradation of the aquatic ecosystem.....[ ]
- 3) The proposed discharge does not include all practicable and appropriate measures to minimize potential harm to the aquatic ecosystem.....[ ]

SIGNATURE

Gary E. Ducken

\* A negative, significant, or unknown response indicates that the permit application may not be in compliance with the Section 404(b)(1) Guidelines.

1/ Negative responses to three or more of the compliance criteria at this stage indicate that the proposed projects may not be evaluated using this "short term procedure." Care should be used in assessing pertinent portions of the technical information of items 2 a thru d below before completing the final review of compliance.

2/ Negative response to one of the compliance criteria at this stage indicates that the proposed project does not comply with the guidelines. If the economics of navigation and anchorage of Section 404(b)(2) are to be evaluated in the decision-making process, the "short form evaluation process is inappropriate."

3/ If the dredged or fill material cannot be excluded from individual testing, the "short-form" evaluation process is inappropriate.



APPENDIX A  
Section D  
Fish and Wildlife Coordination Act Report





# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
110 South Amity Road, Suite 300  
Conway, Arkansas 72032  
Tel.: 501/513-4470 Fax: 501/513-4480

IN REPLY REFER TO:

February 27, 2006

Colonel Wally Z. Walters  
District Engineer  
U.S. Army Corps of Engineers  
P.O. Box 867  
Little Rock, Arkansas 72203-0867

Dear Colonel Walters:

The Fish and Wildlife Service (Service) has prepared this Fish and Wildlife Coordination Act report (FWCA) in response to the Corps of Engineers (Corps) request for planning assistance relative to the proposed May Branch project, Sebastian County, Arkansas. The study is being conducted under the authority of a March 11, 1982 resolution of the Committee on Public Works and Transportation, U.S. House of Representatives. Our comments have been coordinated with the Arkansas Game and Fish Commission (AGFC), and their letter of comment is attached. Our report is submitted in accordance with the Fish and Wildlife Coordination Act (48 Stat. 401. 16 U.S.C. as amended 616 et seq.).

May Branch drains a 5.3 square mile basin located within the city of Fort Smith, Sebastian County, Arkansas. May Branch runs north and west through the city to its confluence with the Arkansas River near river mile 307. The upstream segment of May Branch consists of an open channel which has been relocated due to railroad construction and channelized to improve drainage and provide flood control. At Park Avenue, May Branch channel enters a 2.7 mile long underground culvert storm sewer system constructed in 1910 which terminates at an outfall and pump station located at the Fort Smith levee along the Clayton Expressway. The Corps of Engineers constructed the 400 cfs pump station in 1948 to evacuate May Branch flows during periods of high flow on the Arkansas River. The design of the pump station does not allow for gravity flow and pump discharge simultaneously. An open ditch then carries May Branch flows 0.2 miles to the Arkansas River. The levee along the Arkansas River provides flood protection to the city of Fort Smith when the Arkansas River is at flood stage.

A reconnaissance report identifying a federal interest in the need for flood control on May Branch was included in the Arkansas River Wetlands and Flood Control Report, dated October 1992. A major flood occurred in spring 1990 when the Arkansas River experienced high flows, and gravity flow from May Branch could not occur for a prolonged period. Heavy rains resulted in

flooding which caused major property damage. An estimated \$2.5 million in damages occurred to 26 businesses and 44 residential units in 1990. The present study is investigating alternatives to reduce flooding in the May Branch basin.

### **Description of Fish and Wildlife Resources**

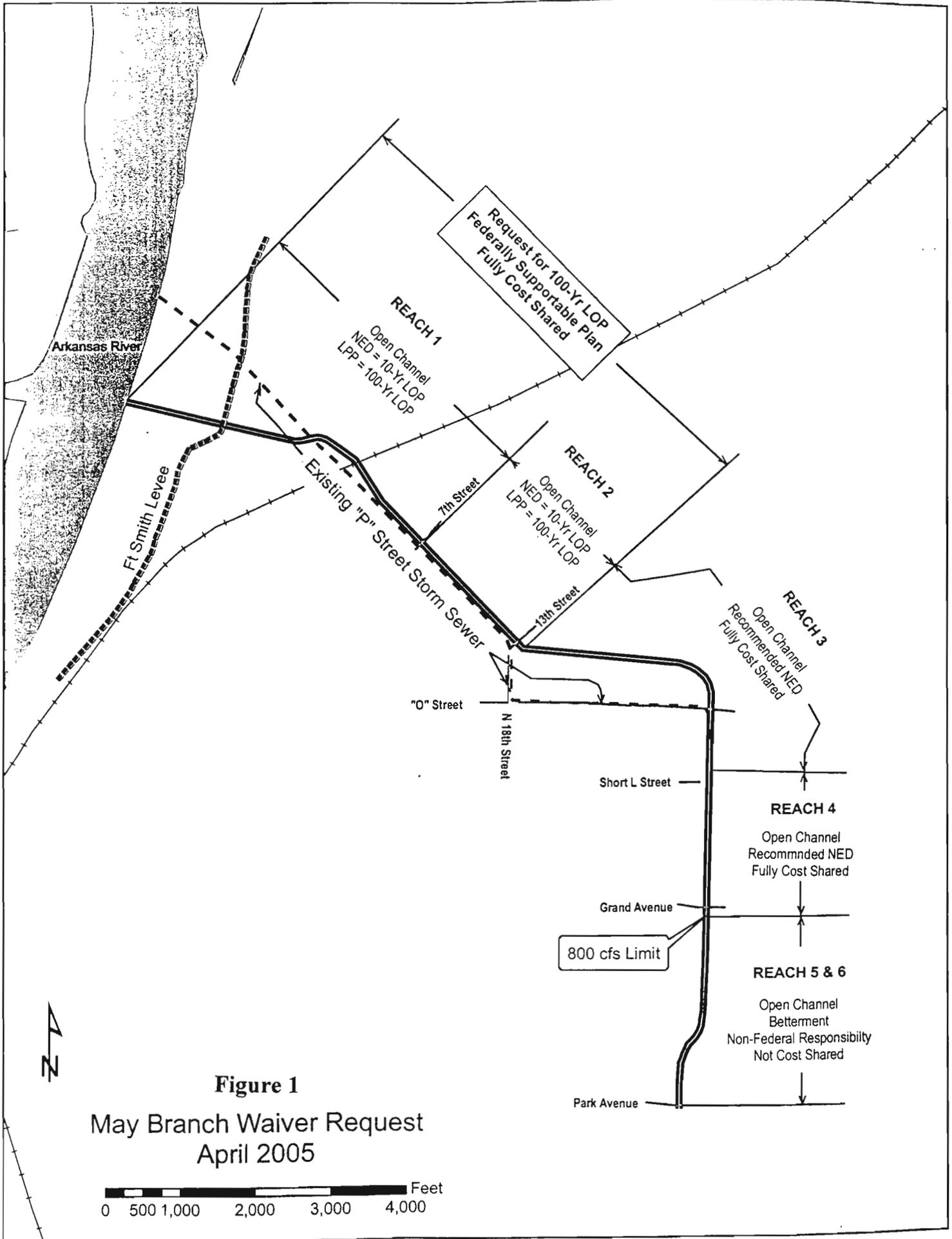
Due to the urbanized setting of the May Branch project area, the channelization that has occurred on the upstream third of May Branch, and the fact that the downstream two thirds of the channel is contained within a culverted storm sewer, fishery resource values within May Branch are very low. Wildlife habitats within the May Branch basin are limited to scattered patches of immature forest cover and vacant lots vegetated with ragweed, Johnson grass, and other weedy species. These habitats support wildlife adapted to urban areas including eastern cottontail, gray and fox squirrel, and other small mammals.

The fishery resources of the Arkansas River are typical of a large warm water river and include largemouth bass, crappie, bluegill, catfish, carp, and buffalo. Throughout the Arkansas River, the lakes formed by the dams and the tailwaters downstream of the dams provide fishing opportunities for both sport and commercial fishermen.

In accordance with the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), a list of threatened or endangered species that may occur in the project area should be provided to the Corps. The Service provided the Corps a letter dated January, 1993 which stated that the endangered American burying beetle had been discovered at nearby Fort Chaffee. However, it is unlikely that the beetle would be found within the project area and no adverse impact to this species was anticipated. In response to an inquiry by FTN Associates, the Service in a letter dated August 3, 1999, stated that no endangered or threatened species or their critical habitats exist within or adjacent to May Branch.

### **Description of Potential Alternatives**

The Locally Preferred Plan (LPP), which is also the recommended plan, consists of a channel which would extend for 2.25 miles from the Arkansas River upstream to Grand Avenue. An extension of the channel beyond the point of federal responsibility, identified as a betterment channel, would extend the channel 0.5 miles to Park Street (Figure 1). From just upstream of O Street to the Fort Smith levee, the channel would augment the flow capacity of the P Street storm sewer. The channel would be trapezoidal with three horizontal to one vertical side slopes and rip-raped except for the vertical concrete wall behind the Arkhola plant and a 1,500-foot length downstream of Grand Avenue where the channel has a 2H:1V side slope and is concrete lined to avoid buildings in the area. Associated bridges and culverts as needed are included in the project plans.



## **Description of Potential Impacts**

Since May Branch and the area adjacent to it are already converted to urban development and the fish and wildlife resource values are very low, the proposed alternative would not result in significant adverse impacts to these resources. Although, a wetland determination of the area within the right-of-way has not been made, it is likely that some disturbed wetlands adjacent to the Arkansas River would be impacted by the proposed channel construction. It does not appear that any other wetlands would be impacted by the proposed project. A wetland determination will be completed as the study progresses. If wetlands are impacted, a plan to mitigate for the loss of wetland habitat and functions would need to be developed and implemented. In addition, the location of the disposal sites for the material excavated from the channel has not been determined. However, it is anticipated that the material would be hauled out of the project area for disposal. Whether the material excavated from the channel is disposed of within or outside of the May Branch area, it should be placed in previously cleared uplands, not in wetlands.

The Arkansas River does support high value aquatic resources, including both sport and commercial fisheries. During the construction period, there would be an increase in sediment and turbidity in May Branch which could in turn be transported to the Arkansas River. High levels of sediment and turbidity can cover gills and interfere with respiration of aquatic species. Further, sediments can cover and smother eggs and larvae of aquatic species and can reduce light penetration, interfering with photosynthesis. Therefore, measures to control sediment and turbidity should be instituted during the construction period in order to reduce the levels of sediments that are carried into the Arkansas River. Any areas disturbed by construction activities which are suitable should be seeded with native plant species to reduce erosion and provide some food and cover for urban wildlife species.

## **Recommendations and Service Position**

The Service has no objection to the proposed modifications to May Branch provided the following recommendations are incorporated into project plans.

1. During the construction period, measures to reduce the amount of sediment entering the adjacent Arkansas River should be implemented.
2. As soon as possible after construction, all disturbed areas which are suitable should be seeded to establish a vegetative cover to minimize the amount of sediment in run-off from the site.
3. Material excavated from the channel should be placed in previously cleared upland sites.

4. If any wetlands will be converted to project purposes, a plan to mitigate for the loss of wetland function and habitat will need to be developed and implemented.

We appreciate the opportunity to work with your staff and the opportunity to provide these comments.

Sincerely,

A handwritten signature in black ink that reads "Margaret Harney". The signature is written in a cursive, flowing style.

Margaret Harney  
Acting Field Supervisor

cc:

Arkansas Game and Fish Commission, Little Rock, Arkansas

Attn: Craig Uyeda

Arkansas Natural Heritage Commission, Little Rock, Arkansas

Attn: Cindy Osborne

Environmental Protection Agency, Dallas, TX

# Arkansas Game and Fish Commission

2 Natural Resources Drive Little Rock, Arkansas 72205

Scott Henderson  
Director

Mike Gibson  
Deputy Director



David Goad  
Deputy Director

Loren Hitchcock  
Deputy Director

February 17, 2006

Margaret Harney  
USFWS  
110 South Amity Road. Suite 300  
Conway, AR 72032

Dear Ms. Harney:

Our agency is in receipt of your Draft Fish and Wildlife Coordination Act Report that references the proposed May Branch project Located in Sebastian County, Arkansas.

Biologists from our agency have reviewed this report and concur with the recommendations in this report and agree with the locally preferred plan (LPP). Our agency would recommend constructing baffles in the runoff area to increase dissolved oxygen in the water and trash racks to collect trash before entering into the river. We would also suggest placing fabric and rip-rap at the outlet to control erosion. Our fisheries biologist feel that the storm water runoff should be separated from the P street sewage system to avoid impacts to fisheries habitat.

Our agency appreciates the opportunity to review these comments and looks forward to working cooperatively with your agency in the future.

Sincerely,

A handwritten signature in cursive script that reads "Robert K. Leonard".

Robert K. Leonard, Biologist  
River Basins Division

Cc: Doyle Shook  
Mike Armstrong

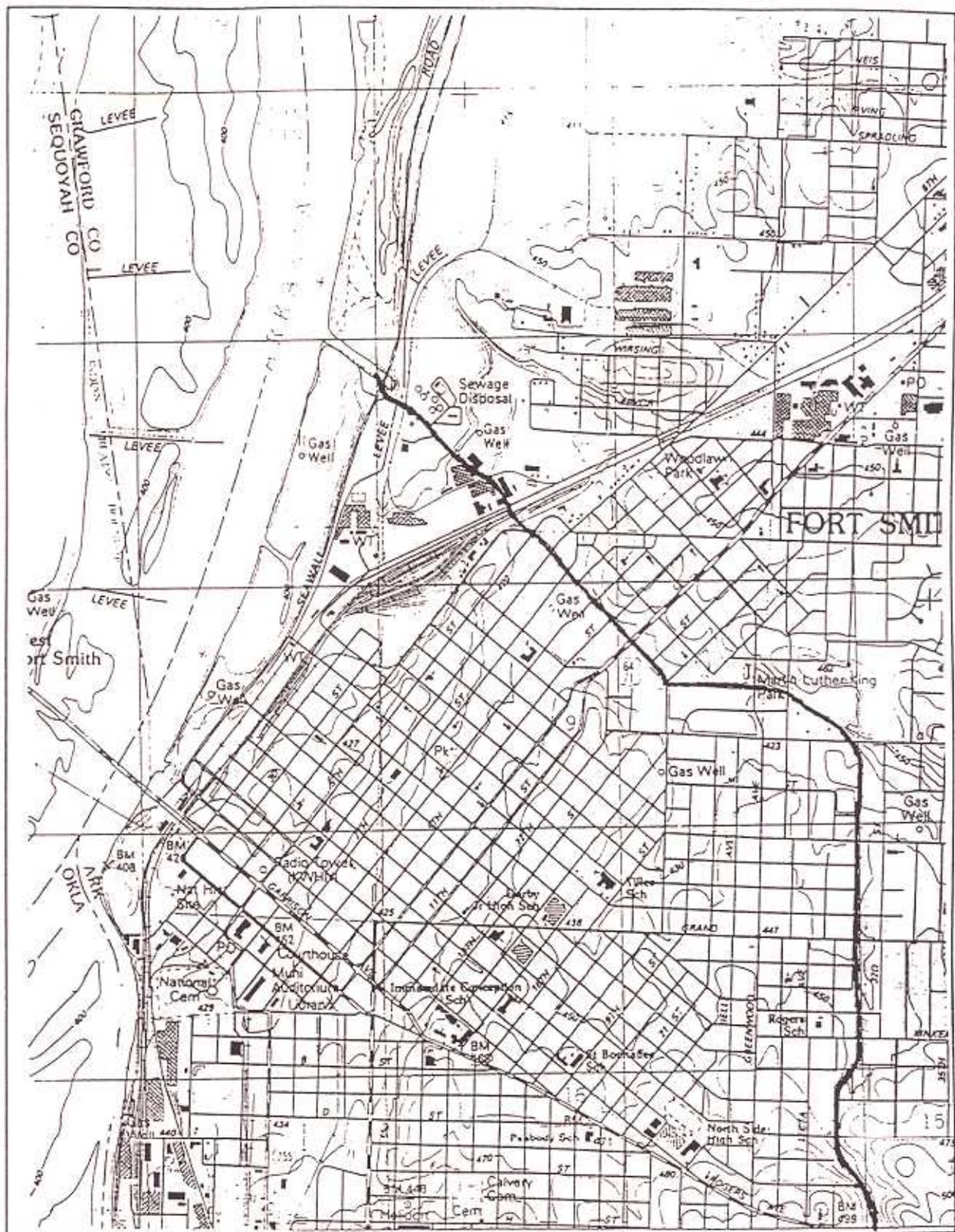


FIGURE 1 Alternatives corridor of proposed May Branch Flood Control Project, Fort Smith, Sebastian County, Arkansas. Map based on USGS topographic quadrangle map, 7.5 minute series, Fort Smith, ARK-OKL, 1987.

## LIST OF ACRONYMS AND ABBREVIATIONS

ADEQ — Arkansas Department of Environmental Quality  
ANHC — Arkansas Natural Heritage Commission  
cfs — cubic feet per second  
Corps — US Army Corps of Engineers  
EPA — Environmental Protection Agency  
FEMA — Federal Emergency Management Agency  
FPPA — Farmland Protection Policy Act  
FWS — US Fish and Wildlife Service  
GLO — Government Land Office  
NEPA — National Environmental Policy Act  
sq miles — square miles  
T&E species — threatened and endangered species