



US Army Corps  
of Engineers®  
Vicksburg District



# Project Status

# Mississippi

MARCH 2020





**USACE VICKSBURG DISTRICT IS COMMITTED TO PROVIDING THE  
HIGHEST QUALITY OF ENGINEERING EXCELLENCE TO ENSURE THE  
SAFETY AND IMPROVEMENT OF OUR COMMUNITIES AND THE  
STRENGTH OF OUR NATION**

USACE, VICKSBURG DISTRICT  
4155 CLAY STREET  
VICKSBURG, MS 39183

M V K . U S A C E . A R M Y . M I L

# INDEX

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M V K . U S A C E . A R M Y . M I L

## Status of Vicksburg Projects in the State of Mississippi

This Project Status Book contains information on the latest progress of the Vicksburg District's projects in the State of Mississippi. The Vicksburg District publishes this book to provide valuable status information for ongoing projects. For your added convenience, a copy of this book in PDF is provided on the disk attached inside the back cover. However, if you should find you still have questions or need additional information about projects contained in this book, please contact Jacob Brister, Deputy Chief, Programs and Project Management Division.

### EMAIL

Jacob.G.Brister@usace.army.mil

### PHONE

Office: 601.631.5163

Cell: 601.831.4172

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## Our Missions:

- Flood Risk Management
- Navigation
- Hydropower
- Recreation
- Water Supply
- Emergency Operations
- Regulatory
- Environmental Stewardship
- Support to Contingency Operations

Vicksburg District encompasses 68,000 square miles in three states, with a \$220-million annual water resources program. Established in 1873, the district has been recognized as Vicksburg's second oldest business.

Our multi-disciplined team of engineers, planners, and environmental, municipal, and recreation specialists are also available, as needed, for other Federal and state customers on a reimbursable basis.

One of the largest civil works districts in the nation, Vicksburg is a center of expertise for many engineering and environmental capabilities. New programs allow us to partner with local agencies and groups to meet their engineering needs.



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VICKSBURG DISTRICT

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**General**

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**District**

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**Information**





*VICKSBURG DISTRICT*  
of the

# Mississippi Valley Division

**1** of **9** division commands

**6** district offices

**12** Governors

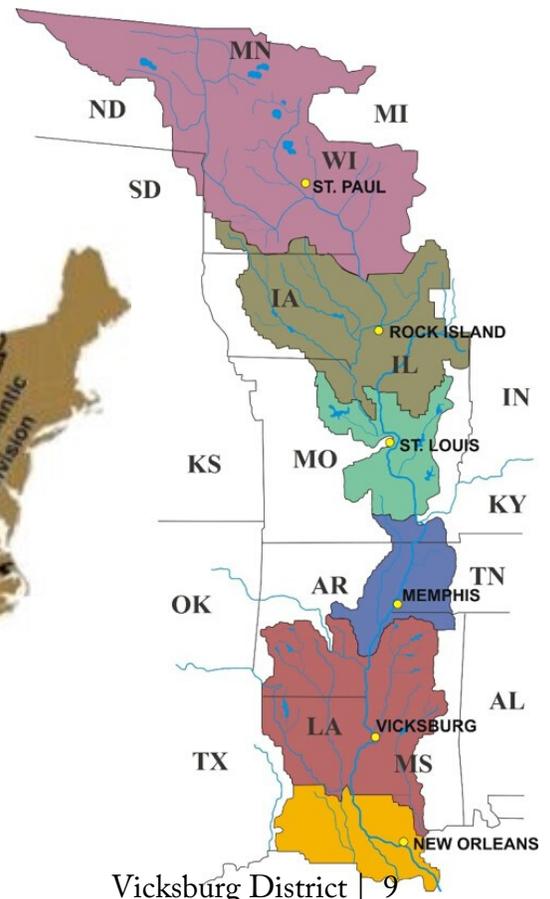
**24** Senators

**58** Congressional Districts

**4,600+** employees

The Mississippi Valley Division's boundaries straddle the world's third largest watershed as the mighty Mississippi River meanders from Canada to the Gulf of Mexico. The Mississippi River watershed serves as a continental funnel that collects vast flows from 41% of the nation's interior, including 31 states, 2 Canadian provinces, 1.5 million square miles and more than 250 tributaries. As North America's most important waterway, MVD's civil works along the Mississippi represent critical investments in our nation's future. The division's effectiveness in orchestrating the river's immense power greatly benefits America's economy, environment and defense.

MVD's borders encompass 370,000 square miles and portions of 12 states bordering the 2,348-mile river.





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of Engineers®  
Vicksburg District

# BIOGRAPHY



## Colonel Robert A. Hilliard

Commander, Vicksburg District

Col. Robert A. Hilliard assumed the duties of commander, Vicksburg District, Vicksburg, Mississippi, June 26, 2019. He came to the district after serving as the deputy commander for the Mississippi Valley Division.

A native of Georgia, Hilliard graduated from Auburn University in Alabama, where he received his commission in the U.S. Army Corps of Engineers in 1996.

Previous assignments include deputy commander, Mississippi Valley Division, Vicksburg, Mississippi. He also served as secretary of the Mississippi River Commission, senior engineer observer/controller at the U.S. Army's National Training Center, Fort Irwin, California (2016-2017); commander, 4th Engineer

Battalion, Fort Carson, Colorado (2014-2016); brigade operations and executive officer, 555th Engineer Brigade (2012-2013), executive officer, 14th Engineer Battalion (2010-2011), and chief of plans, I Corps Engineer Section, Joint Base Lewis-McChord, Washington (2009-2010); project manager, Wilmington District, U.S. Army Corps of Engineers (2006-2008); commander, C Company, 70th Engineer Battalion, Fort Riley, Kansas (2002-2004); and platoon leader and company executive officer, A Company, 40th Engineer Battalion, Baumholder, Germany (1997-2000).

Hilliard served two tours supporting operations in the Balkans, two tours in Iraq supporting Operation Iraqi Freedom and two tours in Afghanistan supporting Operation Enduring Freedom.

His civilian education includes a bachelor's degree in civil engineering from Auburn University, a master's degree in engineering management from the University of Missouri-Science and Technology (Rolla) and a master's degree in civil engineering from Montana State University (Bozeman). Hilliard's military education includes the U.S. Army Command and General Staff College and the U.S. Army War College. He is a registered professional engineer in the state of Missouri.

His awards and decorations include the Bronze Star Medal (3), Meritorious Service Medal (5), Navy Commendation Medal, Army Commendation Medal (3), Joint Achievement Medal, Combat Action Badge, Parachutist Badge and Ranger Tab.

The Mississippi Valley Division is responsible for water resources engineering solutions in a 370,000-square-mile area, extending from Canada to the Gulf of Mexico and encompassing portions of 12 states. Work is carried out by district offices located in St. Paul, Minnesota; Rock Island, Illinois; St. Louis, Missouri; Memphis, Tennessee; Vicksburg, Mississippi; and New Orleans, Louisiana.

Since 1879, the seven-member presidentially appointed Mississippi River Commission has developed and matured plans for the general improvement of the Mississippi River from the Head of Passes to the Headwaters. The Mississippi River Commission brings critical engineering representation to the drainage basin, which impacts 41% of the United States and includes 1.25 million square miles, over 250 tributaries, 31 states and two Canadian provinces.

Hilliard and Donna Davenport have been married for 23 years and have two children.

June 2019

# Vicksburg District Congressional Districts



## Governors and U.S. Senators

**ARKANSAS**  
 Governor Asa Hutchinson  
 Senator John Boozman  
 Senator Tom Cotton

**LOUISIANA**  
 Governor John Bel Edwards  
 Senator John Kennedy  
 Senator Bill Cassidy

**MISSISSIPPI**  
 Governor Phil Bryant  
 Senator Cindy Hyde-Smith  
 Senator Roger Wicker



VICKSBURG DISTRICT

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# Value to the Nation

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Value to the Nation



# Vicksburg District Assets

9

9 Watersheds in Arkansas, Louisiana and Mississippi, including Bayou Meto, Big Black, Boeuf Tensas, Homochitto, Mississippi, Ouachita, Pearl, Red and Yazoo



7

7 Mississippi River ports handling over 8.5 million tons of cargo



5

5 Red River ports handling over 1 million tons of cargo



12  
9

12 locks and 9 dams on the Pearl, Red and Ouachita Rivers



3

3 power plants capable of generating 168,000 kilowatts of electricity



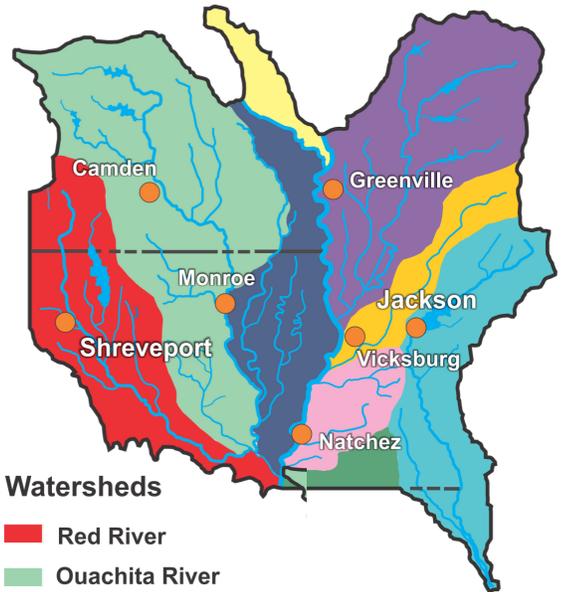
10

10 lakes with 1,673 miles of shoreline



21

21 pumping plants



## Watersheds

- Red River
- Ouachita River
- Boeuf Tensas River
- Bayou Meto
- Yazoo River
- Big Black River
- Amite River
- Pearl River
- Southwest Tributaries

450,603 acres of project & mitigation lands managed for forestry & wildlife enhancement

478 flood control structures

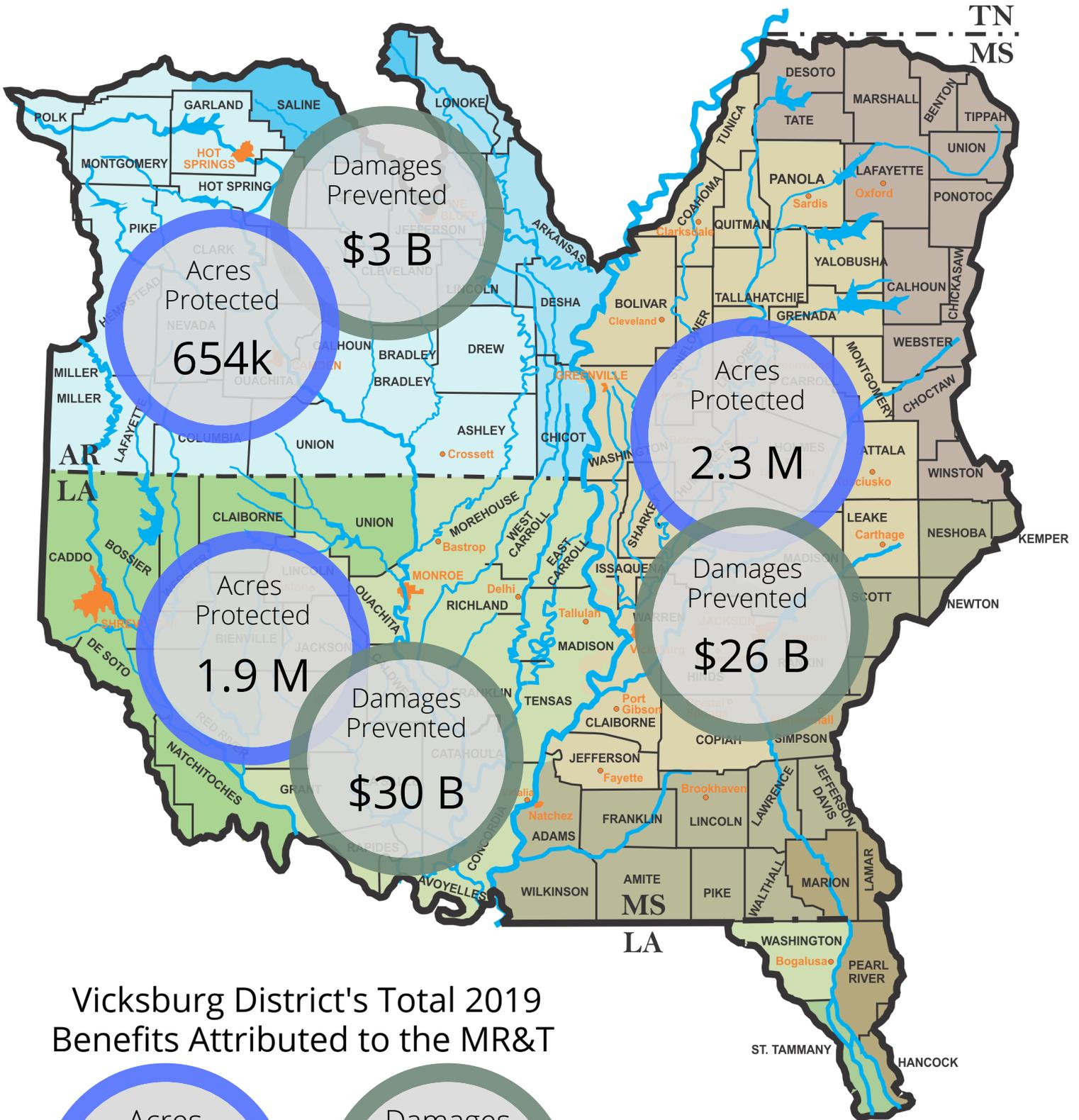
146 recreation areas with 2,772 campsites and 1,529 picnic sites with estimated total visits of 8.1 million

1,910 miles of levees, including 460 miles along the Mississippi River

1,252 miles of navigable channel

# VICKSBURG DISTRICT

## 2019 Benefits Attributed to the MR&T by State

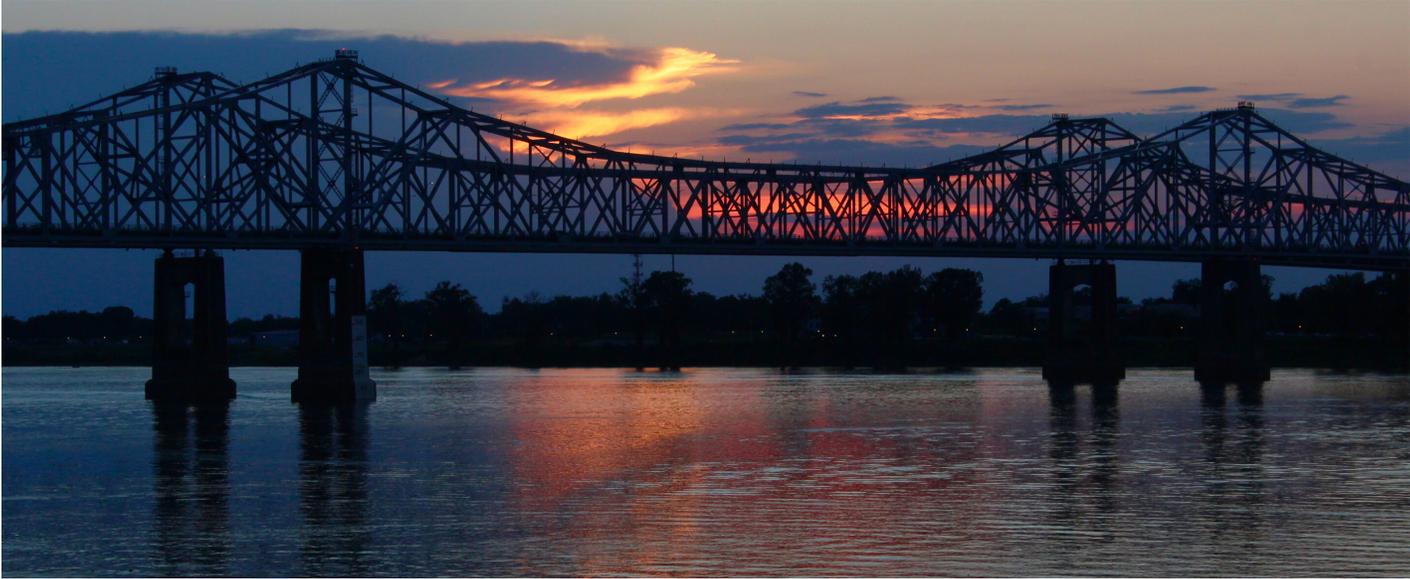


Vicksburg District's Total 2019 Benefits Attributed to the MR&T

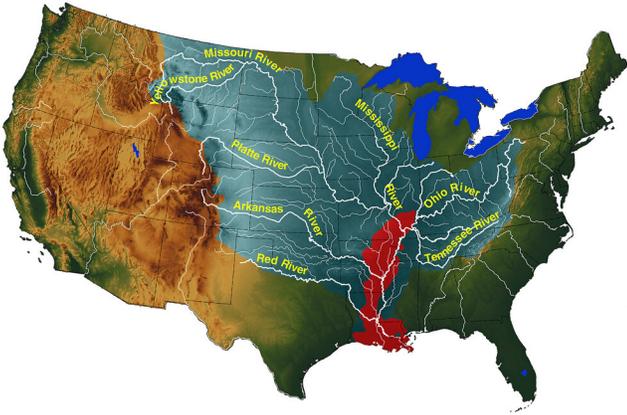


Value to the Nation

# Mississippi River

**World's 3rd Largest Watershed**  
**Drainage Basin for 41% of the United States**



For thousands of years, the Mississippi River meandered through its valley unhindered, flooding lowlands and crating oxbow lakes when it changed course. But, as men began to settle and develop the valley, they tried to place restrictions on the whims of the river and make it conform to their needs. Sometimes the river would cooperate, but many times it would not. Caving banks would claim buildings or valuable farmlands, the shifting channel would leave prosperous ports high and dry, and numerous floods devastated crops and economies. More than a century ago, the Vicksburg District began working with the Mississippi River and its tributaries seeking their cooperation. Thought the river may seem tame to some, it still has a will of its own, fighting to go where it pleases. However, as long as there is a need, the Vicksburg District will continue to work with the Mississippi, developing the required technology to meet the needs of new challenges.

**MR&T Ports**

MR&T Port	2018 Commercial Tonnage	Jobs Sustained
Greenville, MS	4,000,000	540
Vicksburg, MS	3,600,000	4,000

**Mississippi River and Tributaries (MR&T) Benefits**

Average Annual Costs	Average Annual Benefits
\$210 Million	\$1.46 Billion

**O&M Ports**

O&M Port	2018 Commercial Tonnage	Jobs Sustained
Rosedale, MS	1,200,000	325
Yellow Bend, AR	400,000	N/A
Lake Providence, LA	1,300,000	291
Madison Parish, LA	750,000	300
Claiborne Co., MS	N/A	N/A

**Benefit-to-Cost Ratios**

The current remaining benefit-to-cost ratio for the MR&T system is 54 to 1, and, likewise, the total benefit-to-cost ratio for the system is 3.3 to 1 at the 7% interest rate.

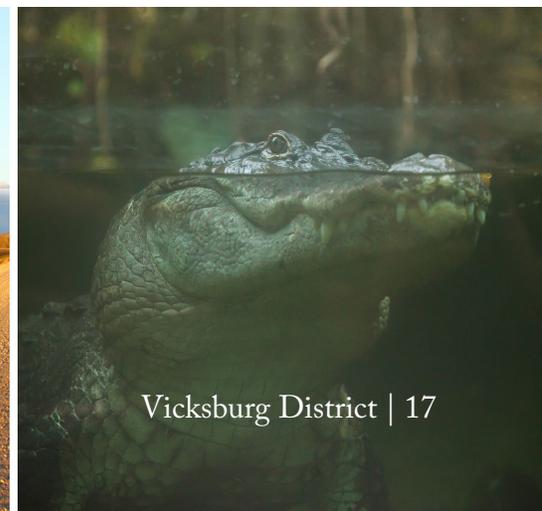
# Value to the Nation

## Vicksburg District Missions



Flood Risk Management  
Navigation  
Environmental Stewardship  
Emergency Operations  
Support to Contingency Operations

Water Supply  
Regulatory  
Recreation  
Hydropower





Value to the Nation

# J. Bennett Johnston Waterway



## Did you know?

- The \$1.9 billion Red River Waterway Project was opened to commercial traffic in 1994.
- Five lock and dam complexes provide a total lift of 140 feet --the equivalent of a 14-story building!
- The navigation channel has a minimum depth of 9 feet and a minimum width of 200 feet
- The U.S. Army Corps of Engineers operates and maintains the locks and dams and supervises bank stabilization and other enhancements
- Over 1.7 million visitors annually take advantage of facilities offered by 22 recreation areas in 8 parishes along the waterway
- Over 10,800 acres of mitigation lands have been purchased to offset losses caused by project construction.





## Project Benefits

Project Benefit	Dollar Amount
Total injection (spending)	\$4,629,600,000
Total Sales	\$8,471,300,000
Total Earnings	\$2,770,200,000
Total Taxes	\$58,200,000
Total Jobs (average)	2,107



## Navigation

Port	2015 Commercial Tonnage	Jobs Sustained
Caddo-Bossier	684,799	7,550
Red River Parish	157,358	N/A
Natchitoches	413,000	291
CLRP (Alexandria)	233,450	2,009





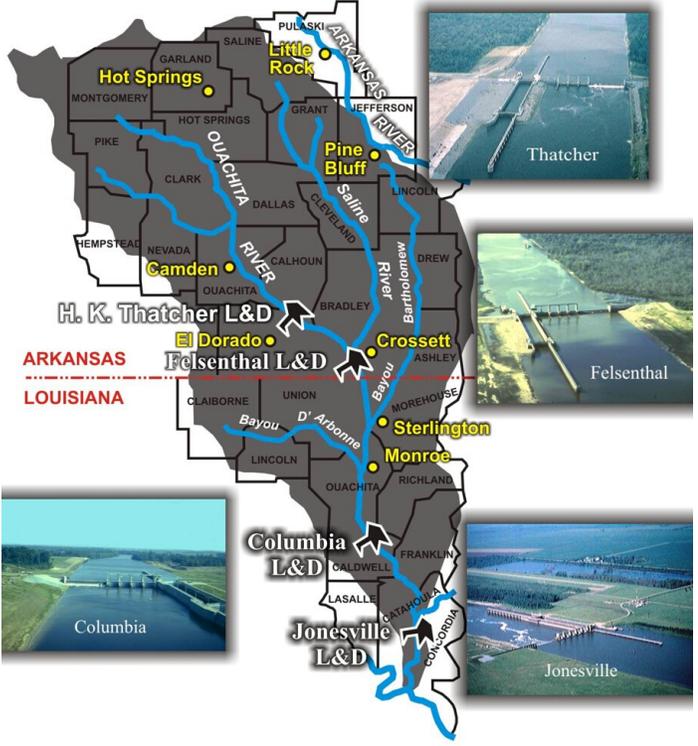
Value to the Nation

# Ouachita-Black Navigation Project



## Did you know?

- The watershed has water storage reservoirs with over 3.5 million acre-feet of capacity.
- There are over 370 miles of levees along the Ouachita River and in the Tensas-Cocodrie, Larto Lake to Jonesville, Sicily Island and Below Red River areas.
- Five pumping plants of 300 cfs, 500 cfs, 750 cfs, 4,000 cfs and 6,500 cfs are located in the watershed to aid in flood risk management.
- The watershed provides water supply for the cities of Hot Springs, Malvern, Arkadelphia and Camden in Arkansas, as well as the city of Monroe in Louisiana.
- Watershed management is provided through a coordinated, system-wide water management program.



# Project Features

The 337-mile Ouachita-Black Navigation Project provides for a 9-foot by 100-foot navigation channel from the mouth of the Black River to Camden, AR. The project operates four locks and dams to regulate pool height and pass navigation along the waterway. There are 18 Corps recreational areas located along the 4 pools of the project which host approximately 700,000 visitors annually.

## Project Benefits

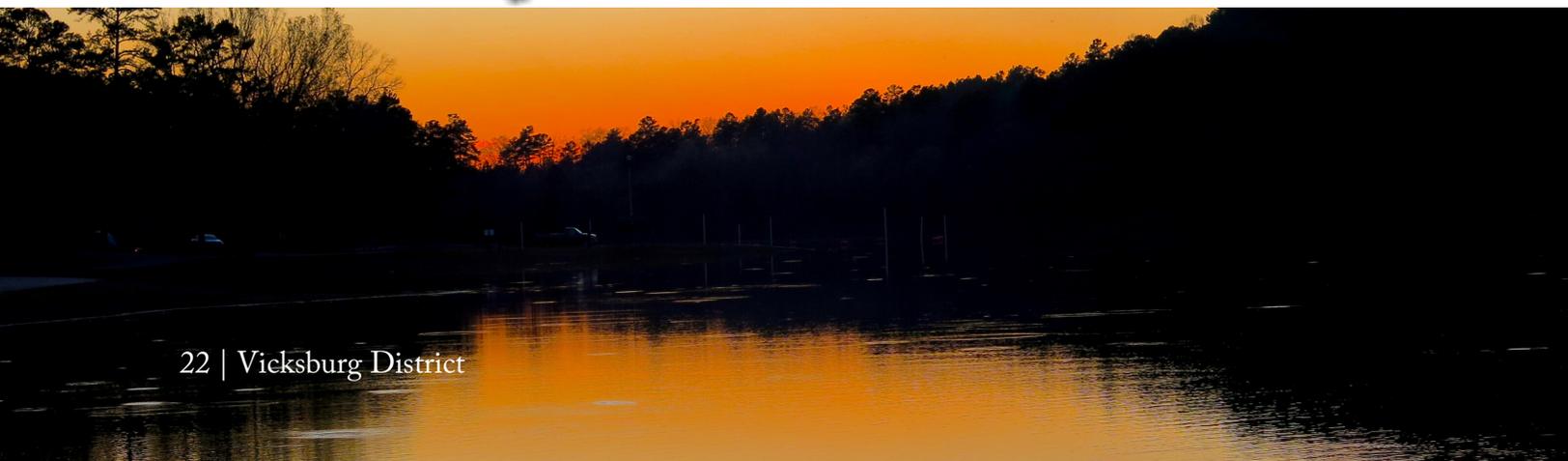
Benefit	Value
Transportation Savings	\$1,100,000,000
Impact on Economy	\$3,900,000,000
Taxes Paid	\$180,000,000
Annual Payroll	\$325,000,000
Jobs Sustained	28,000

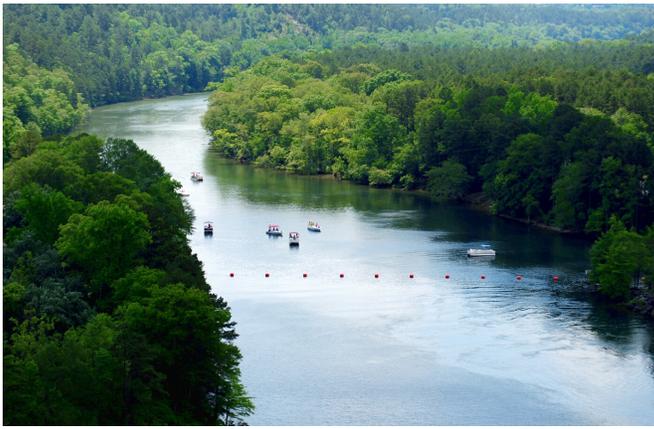




## Did you know?

- Narrows Dam is the only "all concrete" dam in the Vicksburg District.
- The three Arkansas Lakes of the Vicksburg District support over 700 jobs and provide over \$38,000,000 in economic benefits to local economies.





## Blakely Mountain Dam Lake Ouachita - 1956

Located along the Ouachita River in central Arkansas and surrounded by the Ouachita National Forest, the dam is 1100 feet wide and 205 feet tall creating a lake 205 feet deep at the deepest level. The project includes 690 miles of shoreline, 40,000 acres of water and 20,000 acres of public land. Facilities include 18 recreation areas with 18 campgrounds, 7 day-use areas, 19 boat ramps and 10 swimming beaches.

### Annual Local Economic Benefits

Project	Economic Impact
Lake Ouachita	\$18,000,000
DeGray Lake	\$14,000,000
Lake Greeson	\$6,000,000

## DeGray Lake - 1972

Located along the Caddo River in south central Arkansas, the multi-purpose project includes 32,400 acres, DeGray Dam has a crest of 3,400 feet wide and rises 243 above the river bed. The dam creates a lake 200 feet deep at its deepest level with 207 miles of shoreline. Facilities include 15 recreation areas with 8 campgrounds, 7 day-use areas, 11 boat ramps and 8 swimming beaches.

### Hydropower

Project	Generating Capacity
Blakely Mountain Dam - Lake Ouachita	75,000 megawatts
DeGray Lake	68,000 megawatts
Narrows Dam - Lake Greeson	25,500 megawatts

## Narrows Dam Lake Greeson - 1950

Located along the Little Missouri River in southwest Arkansas, Narrows Dam is 941 feet wide and rises to a height of the mean valley. The lake created by the dam, Lake Greeson, stretches 2 miles in length and is 150 feet deep at its deepest level and has 134 miles of shoreline. The project contains over 16,000 acres with over 15,000 acres forested. Facilities include 17 recreation areas with 12 campgrounds, 7 day-use areas, 9 boat ramps and 6 swimming beaches.





Value to the Nation



# Yazoo River Watershed



## Did you know?

- The Yazoo River Watershed encompasses the delta area extending north from Vicksburg, MS to north of Clarksdale, MS and east from the Mississippi River to the hills east of Greenwood, MS.
- The watershed consists of roughly 8,900 square miles including all or parts of 12 Mississippi counties.
- The watershed has an approximate length of 175 miles and an approximate width of 40 miles.

## Flood Risk Management

- 4 water storage reservoirs
- 202 miles of levees
- 103 drainage structures
- 583 miles of channel
- 1 pumping plant
- 8 weirs
- sediment reduction projects
- erosion reduction measures





## Upper Yazoo Projects

Includes channel and levee features along the main channel of the Yazoo, Tallahatchie and Coldwater Rivers from the vicinity of the Yazoo City, MS to the Vicinity of the confluence of Arkabutla Creek with the Coldwater River.

## Main Stem

Consists of new and enlarged levee improvements along the Yazoo, Tallahatchie and Coldwater Rivers from Yazoo City to Prichard, MS; and channel clearing, cutoffs and channel enlargement along the Yazoo, Tallahatchie and Coldwater Rivers.

## Flood Damages Prevented

Yazoo River Watershed	FY 2018 Flood Damage Prevented	Cumulative Flood Damage Prevented
Yazoo Backwater	\$406,000	\$102,979,000
Yazoo Headwaters	\$9,527,000	\$1,952,940,000
MS Lakes	\$6,573,630	\$1,354,980,000
Big Sunflower River	\$2,030,000	\$425,411,000
Total Yazoo Basin	\$18,536,630	\$3,836,310,000

## Delta Headwaters Project

The Mississippi Delta Headwaters Project demonstrates a systems approach to addressing watershed stability problems. The typical problems encountered include: erosion, sedimentation, flooding, and environmental degradation. MDHP contains sixteen watersheds within the Yazoo Basin. The types of structures utilized to achieve the project goals include: low drop grade control structures, high drop grade control structures, box culvert grade control structures, floodwater retarding structures, bank stabilization, and riser pipe structures.





# Mississippi Lakes



## Did you know?

- Over 4.5 million visits are made to the lakes' facilities each year.
- Visitor spending at the North Mississippi Lakes represents a sizable component of the economies of local communities surrounding the lakes.
- Visitors spend over \$101 million annually with 52% being captured by local economies.
- Visitor spending supports the addition of over 1,400 jobs.



## Arkabutla Lake - 1943

Located just 30 minutes from Memphis, TN and Tunica, MS in Tate and DeSoto counties in north Mississippi, Arkabutla Lake covers over 11,000 acres and provides a variety of opportunities for all outdoor enthusiasts to enjoy. Facilities include picnic areas, campgrounds, biking, hiking and walking trails, boat trails, equestrian trails, ADA fishing pier and playgrounds.

## Enid Lake - 1952

Located approximately one mile off Interstate 55, 72 miles south of Memphis, TN, Enid Lake encompasses over 44,000 acres and is visited each year by more than 1.5 million visitors. Enid has been recognized as one of America's Top 10 Fishing Spots. Facilities include campgrounds, hiking trails, off-road vehicle trail, playgrounds, boat ramps and swimming beaches.

## Sardis Lake - 1940

Sardis Lake stretches over 98,000 acres through Panola, Lafayette and Marshal counties in northwest Mississippi. Located approximately one hour from Memphis, TN and 30 minutes from the University of Mississippi, the lake is a popular destination for water-related recreation. Facilities include nine campgrounds, boat ramps, cabins, playgrounds and swimming beaches.

## Grenada Lake - 1954

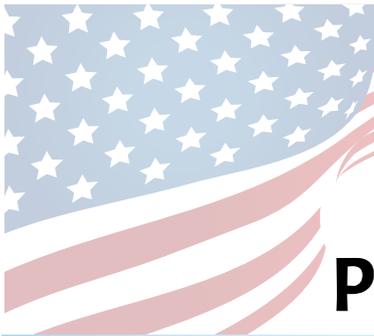
Located in the gently rolling hills of pine and hardwood at the entrance to the Mississippi Delta, Grenada Lake covers 36,000 acres and offers some of the best fishing opportunities in the southeastern United States, as well as most any kind of water activity imaginable. Facilities include campgrounds, boat ramps, fishing areas, shelters, playgrounds and swimming beaches.



### Project Costs vs. Benefits

Project	Average Annual Costs	Average Annual Benefits
Arkabutla Lake	\$5,000,000	\$33,000,000
Sardis Lake	\$5,000,000	\$34,000,000
Enid Lake	\$5,000,000	\$22,000,000
Grenada Lake	\$5,000,000	\$39,000,000





Value to the Nation



# Pearl River Watershed



## Did you know?

The Pearl River originates in Neshoba Country, MS, and meanders approximately 444 miles to empty into Lake Borgne. The Pearl River Watershed covers some 8,760 square miles and includes all or parts of 23 counties in Mississippi and parts of 3 parishes in Louisiana.



Pearl River Basin Watershed, LA and MS

## Flood Risk Management

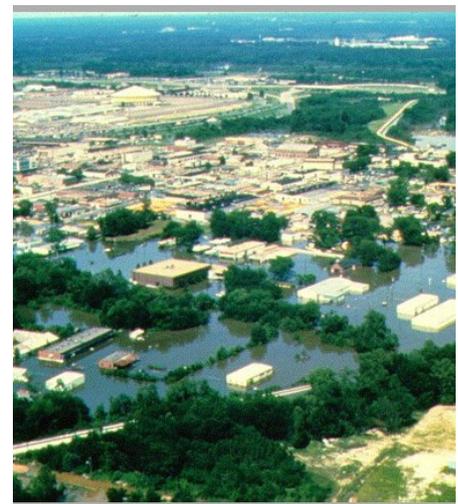
The Jackson (Fairgrounds) and East Jackson levees were completed in 1968 by the Corps. These protective works consist of two earthen levees, four gated outlets and two pumping stations. Approximately 5.34 miles of river channel work was involved in constructing the plan. The Fairgrounds levee protects 420 acres in the fairgrounds area of Jackson on the west side of the river. The longer East Jackson levee protects 5,870 acres, including the town of Pearl and portions of Flowood and Richland. This project was sponsored by the Rankin-Hinds Pearl River Flood and Drainage Control District, which presently operates and maintains the levees. In 1984, an extension on the north end of the Fairgrounds levee was constructed to eliminate flanking of the levee.

## Environmental Stewardship

In all aspects of natural and cultural resources management, the Corps promotes awareness of environmental values and adheres to sound environmental stewardship, protection, compliance and restoration practices. The Corps manages for long-term public access to, and use of, the natural resources in cooperation with other Federal, State and local agencies, as well as the private sector.

## Levee Plan

Consists of raising, strengthening and extending levees to provide protection against flooding.





# Big Black River Watershed

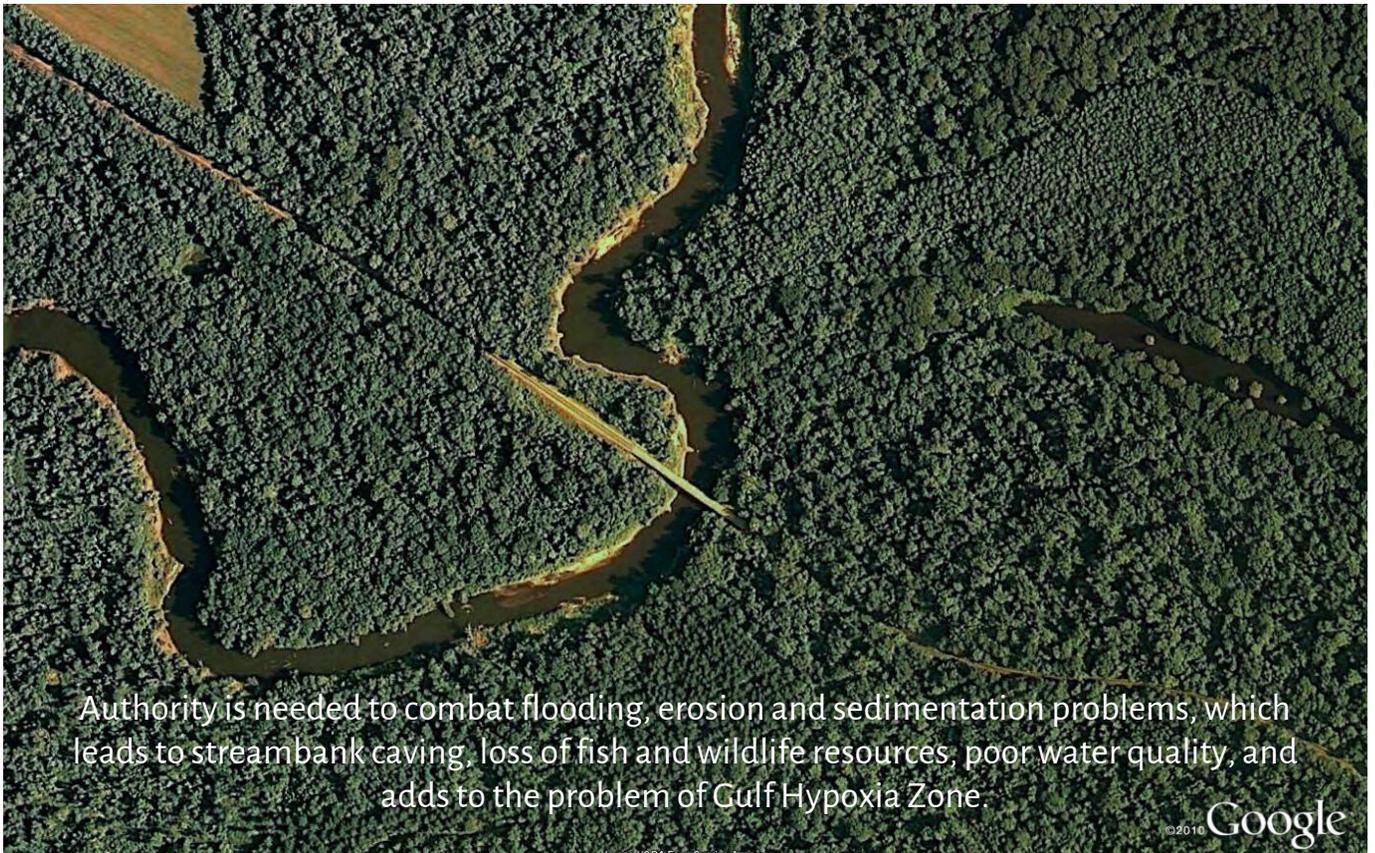


## Environmental Stewardship

Nonpoint loading of sediment in a water body results from the transport of the material into receiving waters by the processes of mass wasting, head cutting, gully, and sheet and rill erosion. Sources of sediment include the following:

- Agriculture
- Silviculture
- Rangeland
- Construction sites
- Roads
- Urban areas
- Mass wasting areas
- Gullies
- Surface mining
- In-channel and instream sources
- Historical landuse activities and channel alterations





Authority is needed to combat flooding, erosion and sedimentation problems, which leads to streambank caving, loss of fish and wildlife resources, poor water quality, and adds to the problem of Gulf Hypoxia Zone.

©2010 Google



Value to the Nation



# Southwest Tributaries



## Southwest Tributaries Basin

The basin comprises a drainage area of approximately 2,300 square miles.

All or parts of nine counties in southwestern Mississippi are included -- Adams, Amite, Claiborne, Copiah, Franklin, Hinds, Jefferson, Lincoln and Wilkinson.

The basin extends in a north-south direction approximately 60 miles from just north of Port Gibson, MS, to the vicinity of the Mississippi-Louisiana state line on the south; it extends in an east-west direction approximately 55 miles from the Mississippi River on the west to Interstate 55 on the east.

Three major streams-- Buffalo River, Homochitto River and Bayou Pierre drain most of the area and flow directly into the Mississippi River.



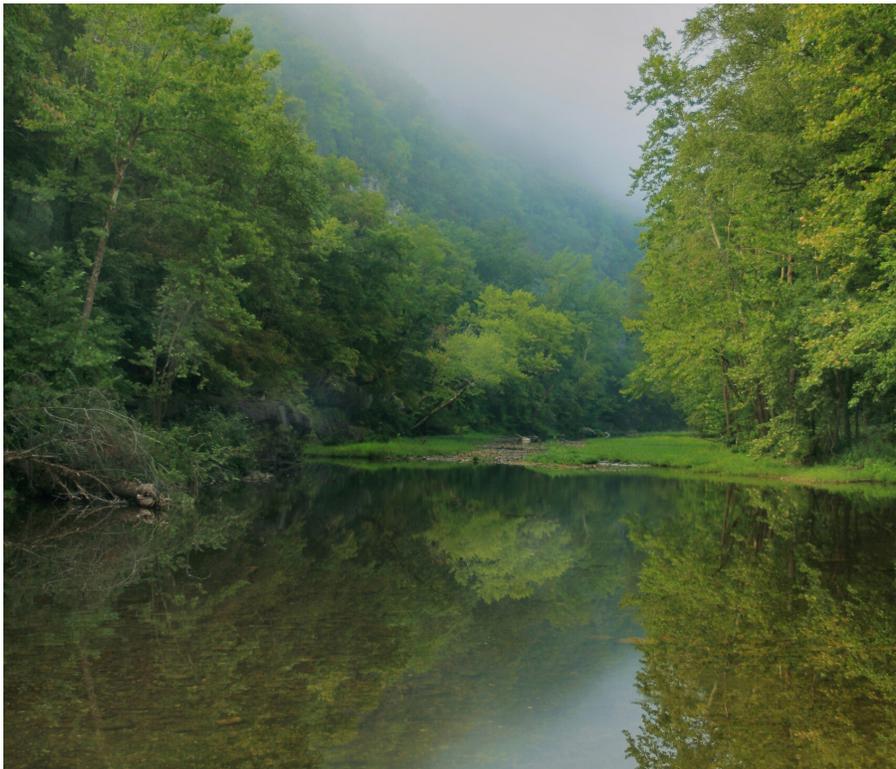
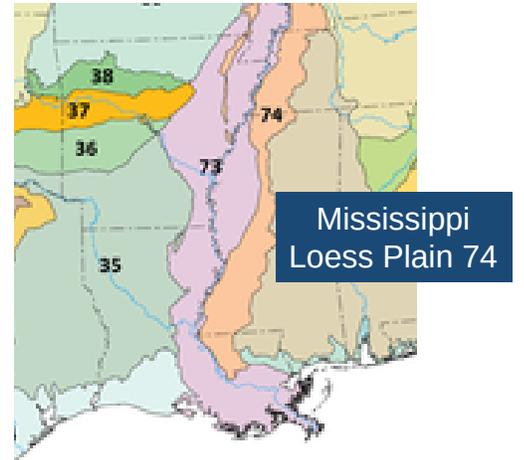
# Environmental Stewardship

USACE needs authority in this area to combat flooding, erosion and sedimentation problems which leads to streambank caving, loss of fish and wildlife resources, poor water quality and increase of Gulf Hypoxia Zone problem.

## Gulf Hypoxia Zone



## EPA Level 3 Ecoregions

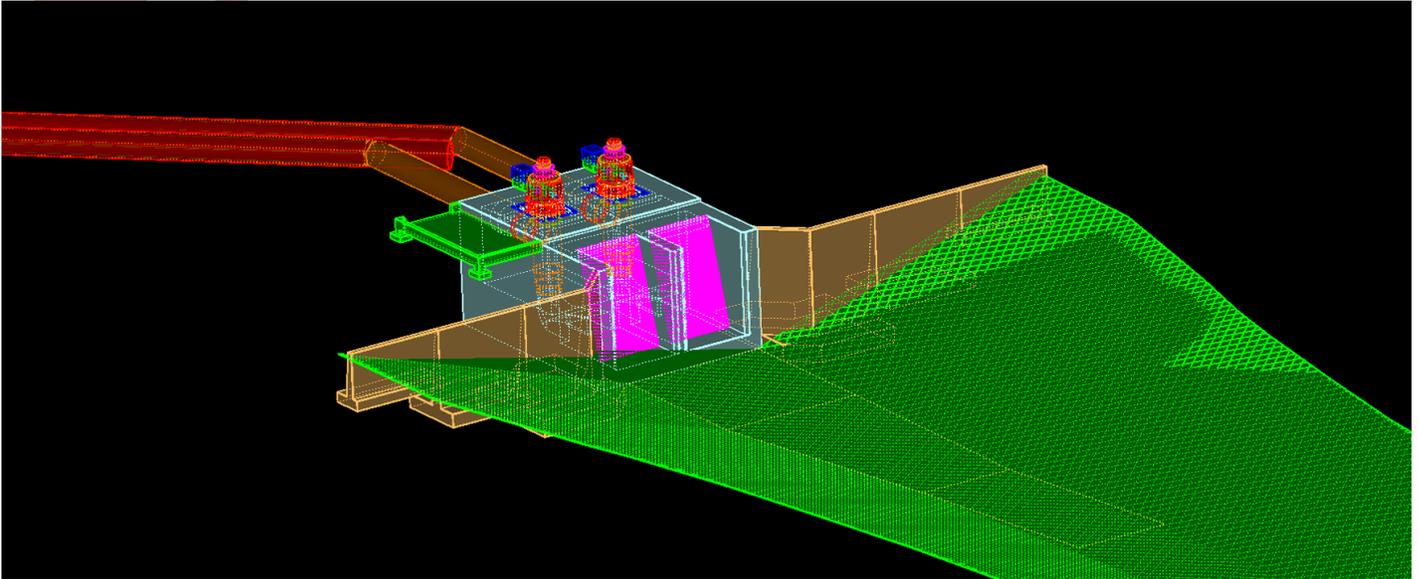




Value to the Nation



# Bayou Metro



## Project Features

- 107 miles of new canal
- 1,750 CFS pump station riparian buffers
- 128 miles of channel work
- 10,000 acres of herbaceous wetland complexes
- 132 miles of ditch enlargements
- 465 miles of new pipeline
- Bayou Metro Wildlife Management



## Flood Risk Management

The project includes a pump station to evacuate water from the Bayou Meto Basin and reduces flood damage on farmland and stress to bottomland hardwood forests that benefit waterfowl management.



## Environmental Stewardship

The project area includes 10,000 acres of herbaceous wetland complexes, along with riparian buffers and improvements to the Bayou Meto Wildlife management Area to provide environmental restoration and enhancement features.



## Water Supply

The project has features which divert excess water from the Arkansas River via a delivery system that contains pump stations and incorporates a system of new canals, existing streams and pipelines to deliver water to depleted areas.

## Little Bayou Meto Pump Station

A pump station that evacuates water from the Bayou Meto Basin and reduces flood damage on farmland and stress to bottomland hardwood forests that benefit waterfowl.

## Pump Station No. 1/Reservoir

A pump station that takes excess surface water from the Arkansas River, pumps it up into a reservoir to utilize gravity flow, and puts it into a delivery system for irrigation use.





Value to the Nation



# Vicksburg District

The Vicksburg District encompasses 68,000 square miles in Mississippi, Louisiana and Arkansas. Seven major river basins fall into our jurisdiction including the mighty Mississippi, the Red, Ouachita, Pearl and Yazoo Rivers. The District employs a diverse profile of professionals, over 1000 strong, divided among our Vicksburg, Mississippi headquarters and eleven field offices spread over all three states. Established in 1873, the District is a center of expertise for many engineering and environmental solutions. It is recognized as Vicksburg's second oldest business operating and maintaining over \$2.3 billion in real property and projects which, in turn, generate both direct and indirect economic value for the Nation.

**From a program of 150 million dollars,  
the Vicksburg District returns nearly  
1 billion dollars in economic benefits**

## ANNUAL DIRECT ECONOMIC BENEFITS

Fees Collected	\$1,992,000
Agricultural Leases	\$576,000
General Leases and Concessions	\$413,000
Water Supply Payments	\$1,092,000
Hydropower	\$12,000,000
<b>Total Direct Benefits</b>	<b>\$16,073,000</b>

## ANNUAL INDIRECT ECONOMIC BENEFITS

Flood Damages Prevented	\$654,988,000
Recreation	\$49,763,000
Water Supply Benefits	\$115,792,000
Navigation Savings	\$125,020,000
<b>Total Indirect Benefits</b>	<b>\$945,563,000</b>

VICKSBURG DISTRICT

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**District**  
**Financial**  
**Information**





## Construction General – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
Construction General						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Mississippi Environmental Infrastructure, MS (Section 592)	\$3,150,000	Funds in the amount of \$3,150,000 will be used to execute a new sewer, wastewater, and water system PPAs.		\$0	There are no funds in the FY 21 President's budget for this project.	Funds in the amount of \$13,350,000 could be used to execute new Project Partnership Agreements for Sewer System improvements (\$5,550,000), wastewater system improvements (\$3,700,000), and water system improvements (\$4,100,000).

## Operation and Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
Operations and Maintenance (O&M)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Claiborne County Port	\$0	There are no funds in the FY20 President's Budget for this project.		\$0	There are no funds in the FY21 President's Budget for this project.	Additional funds in the amount of \$303,000 could be used to fund annual maintenance dredging, slack-water, shallow draft harbor, along the MS River, Claiborne County, Mississippi.

# Operation and Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
Operations and Maintenance (O&M) (Cont.)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
ICW, MS	\$0	TBD		\$0	TBD	Additional funds in the amount of \$47,000 could be used for levee and channel inspections. Reports will be generated and provided to local sponsors for their use to incorporate and schedule repair of deficiencies into their levee maintenance program.
Mouth of Yazoo	\$330,000	Funds in the amount of \$330,000 are being used to perform surveys to determine the need for and extent of annual dredging and for annual maintenance dredging.		\$30,000	Funds in the amount of \$30,000 will be used to perform surveys to determine the need for and extent of annual dredging.	Additional funds in the amount of \$500,000 could be used for annual maintenance dredging.
Mississippi River Levees, AR, LA & MS	\$7,673,000	Funds in the amount of \$7,673,000 are being used for periodic inspections, operation and maintenance for flood risk management, slide repairs, relief well rehabilitation, and data collection.		\$3,713,000	Funds in the amount of \$3,713,000 will be used for data collection, inspections, relief well rehabilitation, and major maintenance of the project.	Funds in the amount of \$1,914,000 could be used for maintenance for flood risk management (\$872,000), levee surfacing (\$812,000) and mitigation features (\$230,000).

# Operation and Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
Operations and Maintenance (O&M) (Cont.)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Pearl River	\$140,000	Funds in the amount of \$140,000 are being used to maintain the project in a caretaker status.		\$140,000	Funds in the amount of \$140,000 will be used to minimally maintain the project in a caretaker status.	Additional funds in the amount of \$9,000 could be used to maintain FY 21 level of maintenance.
Pearl River	\$140,000	Funds in the amount of \$140,000 are being used to maintain the project in a caretaker status.		\$140,000	Funds in the amount of \$140,000 will be used to minimally maintain the project in a caretaker status.	Additional funds in the amount of \$9,000 could be used to maintain FY 21 level of maintenance.
Rosedale Harbor	\$35,000	Funds in the amount of \$35,000 are being used to perform surveys to determine the need for and extent of annual maintenance dredging.		\$35,000	Funds in the amount of \$35,000 will be used to perform surveys.	Additional funds in the amount of \$1,050,000 could be used for maintenance dredging (\$900,000) and dredging needed to restore project dimensions (\$150,000).
Yazoo River	\$150,000	Funds in the amount of \$150,000 are being used for clearing and snagging to maintain the authorized channel.		\$20,000	Funds in the amount of \$20,000 will be used for studies and surveys for navigation.	Additional funds in the amount of \$250,000 could be used to perform minimum channel survey, clearing and snagging to maintain the authorized channel to maintain the authorized channel at the confluence of the Yazoo River, Vicksburg Harbor and the Yazoo Canal.

# MR&T Investigations and MR&T Construction Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T-Investigations						
Study	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Collection and Study of Basic Data	\$2,250,000	Funds in the amount of \$2,250,000 are being used for survey of permanent ranges, Aquatic/Water Quality and Quantity Monitoring, base stream flow analysis, and collections and surveys.		\$500,000	Funds in the amount of \$500,000 will be used for management and prediction of flood risk.	Funds in the amount of \$3,750,000 could be used for management and prediction of flood risk (\$900,000), water quality and preservation of historical records (\$2,850,000).
MR&T-Construction						
Channel Improvement, Revetment and Dikes	\$21,800,000	Funds in the amount of \$21,800,000 are being used to award a construction contract for Victoria Bend Dikes, Phase I, plan and design of channel dikes construction, and construction of articulated concrete mattress projects.		\$12,750,000	Funds in the amount of \$12,750,000 are being used to award a contract for Tarpley Cutoff Dikes, Plan and Design of Channel Dikes Construction at Victoria Bend, Tarpley Cutoff and Anconia, and articulated concrete mattress projects.	Funds in the amount of \$58,790,000 could be used for awarding new contracts (\$15,610,000), design and construction of new dikes design and construction of articulated concrete mattress revetment (\$32,340,000), and Refuge Stone Bank Paving at Dikes 1A, 1B & 1C and Anconia Chute Dike 1U (\$10,840,000).

# MR&T Investigations and MR&T Construction Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T-Construction (Cont.)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Mississippi River Levees, AR, LA & MS	\$14,750,000	Funds in the amount of \$14,750,000 are being used to complete design for Mississippi River Levee Items 414-R, 401-R and 368-R, award a contract for Item 414-R, and for a USGS Resistivity study.		\$13,666,000	Funds in the amount of \$13,666,000 are being used to award a contract for Item 401-R, Yucatan-Lake-Lake Bruin, Louisiana and to complete design and S&A for multiple Items.	Funds in the amount of \$43,650,000 could be used to award contracts (\$30,050,000) (Items 614-L, 555-R, 525-R, 520-R, 401-R, 393-R, 370-R, 368-R, 367-R, and 366-R) and continue design on future award items (\$13,600,000).
Yazoo Basin, Big Sunflower River, MS	\$2,942,000	Funds in the amount of \$2,942,000 are being used for construction on Phase X and for survey/design on Phase XI.		\$0	There are no funds in the FY 21 President's Budget for this project.	Funds in the amount of \$4,100,000 could be used for further construction, surveys, and design.
Yazoo Basin, Delta Headwaters, MS	\$0	There are no funds in the FY 20 President's Budget for this project.		\$0	There are no funds in the FY 21 President's Budget for this project.	Funds in the amount of \$34,250,000 could be used for design and surveys of future items (\$20,500,000), bank stabilization (\$6,050,000), flood risk management (\$3,700,000) and riser pipe items (\$4,000,000).

# MR&T Investigations and MR&T Construction Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T-Construction (Cont.)						
Yazoo Basin, Upper Yazoo Projects, MS	\$2,750,000	Funds in the amount of \$2,750,000 are being used to fully fund land acquisition for Item 8A, evaluation and design of Item 8A and 7D, Phase 2 and the Water Control Master Plan.		\$0	There are no funds in the FY 21 President's Budget for this project.	Funds in the amount of \$14,650,000 could be used to evaluate and design Item 8B (\$1,550,000), construct Item 7C Phase II (\$1,500,000) and 8 (\$10,000,000).
Yazoo Basin, Yazoo Backwater Less Rocky Bayou, MS	\$7,500,000	Funds in the amount of \$7,500,000 are being used to acquire mitigation land and for the Yazoo Backwater Pump Station Record of Decision.		\$0	There are no funds in the FY 21 President's Budget for this project.	Funds in the amount of \$11,500,000 could be used to acquire mitigation land (\$6,000,000) and for survey and design (\$5,500,000).

# MR&T Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T Maintenance (M)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Channel Improvement, Dredging	\$3,844,000	Funds in the amount of \$3,844,000 are being used for operation for navigation and studies and surveys for navigation.		\$5,900,000	Funds in the amount of \$5,900,000 will be used to conduct surveys, annual maintenance dredging on main line MS River navigation channel.	Funds in the amount of \$4,550,000 could be used for annual maintenance dredging on main line Mississippi River navigation channel.
Channel Improvement, Revetment and Dikes	\$14,600,000	Funds in the amount of \$14,600,000 are being used to award stone repair contracts, planning engineering, and design of articulated concrete mattress revetments and repairs to existing dikes.		\$18,500,000	Funds in the amount of \$18,500,000 will be used for operation for dike maintenance stone repairs and ACM revetments.	Funds in the amount of \$41,203,000 could be used for articulated concrete mattress revetments (\$7,600,000), award contract for stone repairs to existing structures (\$2,000,000), dike repairs (\$4,500,000), and revetment repairs (\$27,103,000).
Greenville Harbor	\$930,000	Funds in the amount of \$930,000 are being used for harbor surveys and dredging.		\$930,000	Funds in the amount of \$930,000 will be used for maintenance dredging and studies and surveys for navigation.	Funds in the amount of \$300,000 could be used for additional dredging.
Inspection of Completed Works (ICW) MS	\$197,000	Funds in the amount of \$197,000 are being used for levee inspections, risk assessments, and risk communication.		\$0	TBD	Funds in the amount of \$381,000 could be used to perform inspections of MR&T levees, channels, and structures in Mississippi within the borders of the Vicksburg District.

# MR&T Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T Maintenance (M) (Cont.)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Mapping	\$399,000	Funds in the amount of \$399,000 are being used for studies and surveys.		\$0	TBD	Funds in the amount of \$399,000 could be used to continue performing mapping activities including collection of funds for the sales of maps, publications, historical photos, aerial photography and other materials on rivers and harbor, and flood control infrastructure on the Mississippi River and Tributaries.
Mississippi River Levees, AR, LA & MS	\$7,673,000	Funds in the amount of \$7,673,000 are being used for periodic inspections, operation and maintenance for flood risk management, slide repairs, relief well rehabilitation, and data collection.		\$3,713,000	Funds in the amount of \$3,713,000 will be used for data collection, inspections, relief well rehabilitation, and major maintenance of the project.	Funds in the amount of \$1,914,000 could be used for maintenance for flood risk management (\$872,000), levee surfacing (\$812,000) and mitigation features (\$230,000).

# MR&T Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T Maintenance (M) (Cont.)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Vicksburg Harbor, MS	\$942,000	Funds in the amount of \$942,000 are being used for ERGO management for navigation, maintenance dredging, and studies and surveys.		\$940,000	Funds in the amount of \$940,000 will be used for surveys and maintenance dredging.	Funds in the amount of \$300,000 could be used for additional dredging.
Yazoo Basin, Arkabutla Lake, MS	\$7,186,000	Funds in the amount of \$7,186,000 are being used for conduit plans and specifications, operation and maintenance for flood risk management, maintenance of recreation facilities, repairs, environmental stewardship, surveys, and wildlife and habitat management.		\$5,326,000	Funds in the amount of \$5,326,000 will be used for cultural resources monitoring, operation and maintenance for flood risk management, environmental stewardship, wildlife habitat management, and data gathering.	Funds in the amount of \$13,683,500 could be used for operation and maintenance for flood risk management (\$6,570,000), operation and maintenance of recreation (\$6,463,000) and environmental stewardship (\$650,500).
Yazoo Basin, Big Sunflower River (Including Bogue Phalia), MS	\$188,000	Funds in the amount of \$188,000 are being used for mitigation activities, and operation and maintenance for flood risk management.		\$146,000	Funds in the amount of \$146,000 will be used for routine operation, maintenance, data collection, and data analysis.	Funds in the amount of \$153,000 could be used for routine operation and maintenance.

# MR&T Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T Maintenance (M) (Cont.)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Yazoo Basin, Enid Lake, MS	\$5,318,000	Funds in the amount of \$5,318,000 are being used for maintenance for flood risk management, forest management, environmental stewardship, data collection and surveys, operation for recreation, and wildlife habitat management.		\$5,113,000	Funds in the amount of \$5,113,000 will be used for cultural resources monitoring, operating and maintenance for flood risk management, wildlife habitat management, and operation for recreation.	Funds in the amount of \$6,520,000 could be used to continue operation and maintenance at a reduced level of service in all authorized mission areas (\$1,975,000), replace surface drain inlets and piping (\$1,900,000) and all other activities (\$2,645,000).
Yazoo Basin, Greenwood, MS	\$751,000	Funds in the amount of \$751,000 are being used for data gathering, levee safety, operation for flood risk management, and periodic inspections.		\$980,000	Funds in the amount of \$980,000 will be used for routine operation and maintenance, data gathering and periodic inspections, and critical work needed to ensure the integrity of the project to protect people and property from flooding.	Funds in the amount of \$3,150,000 could be used for pipe replacement for the Greenwood West and East levee systems (\$4,000,000) and for routine operation and maintenance, data gathering and periodic inspections, and critical work needed to ensure the integrity of the project to protect people and property from flooding (\$150,000).

# MR&T Maintenance – Mississippi

FY 2020 Synopsis				FY 2021 Synopsis		
MR&T Maintenance (M) (Cont.)						
Project	FY 2020 Allocation (\$000)	FY 2020 Description of Work	How Project Efforts Enable the FY 2021 Budget	FY 2021 Bud Amt (\$000)	FY 2021 Description of Work	Remarks/Issues
Yazoo Basin, Grenada Lake, MS	\$6,151,000	Funds in the amount of \$6,151,000 are being used for design and repair of gabion baskets, operation for recreation, wildlife management, cultural resources monitoring, data collection, forest management, environmental stewardship, and operation and maintenance for flood risk management.		\$5,326,000	Funds in the amount of \$5,326,000 will be used to continue operation and maintenance of recreational features, flood risk management, and data collection.	Funds in the amount of \$9,935,000 could be used to continue operation and maintenance of recreational features (\$3,265,000), flood risk management (\$6,120,000), and data collection (\$550,000).
Yazoo Basin, Main Stem, MS	\$1,695,000	Funds in the amount of \$1,695,000 are being used for routine operation and maintenance, periodic inspections, and critical work needed to ensure the integrity of the project to protect people and property from flooding.		\$893,000	Funds in the amount of \$893,000 will be used for routine operation and maintenance, data gathering and periodic inspections, funding of mitigation lands, and critical work needed to ensure the integrity of the project to protect people and property from flooding.	Funds in the amount of \$1,220,000 could be used for routine operation and maintenance including data gathering and periodic inspections (\$195,000), funding of mitigation lands (\$500,000), and critical work needed to ensure the integrity of the project to protect people and property from flooding (\$525,000).



VICKSBURG DISTRICT

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# Project Fact Sheets and Maps





VICKSBURG DISTRICT

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# Construction

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# CONSTRUCTION

The main objective of a construction program is to complete authorized and appropriated projects as economically and quickly as practicable within program constraints and consistent with national priorities.

Under the provisions of a cost-shared project, prior to initiation of construction, the non-Federal sponsor and the government enter into a Project Partnership Agreement (PPA). The PPA describes all of the requirements and responsibilities relating to construction of the project including items of local cooperation required from the non-Federal sponsor.

M V K . U S A C E . A R M Y . M I L



US Army Corps  
of Engineers  
Vicksburg District

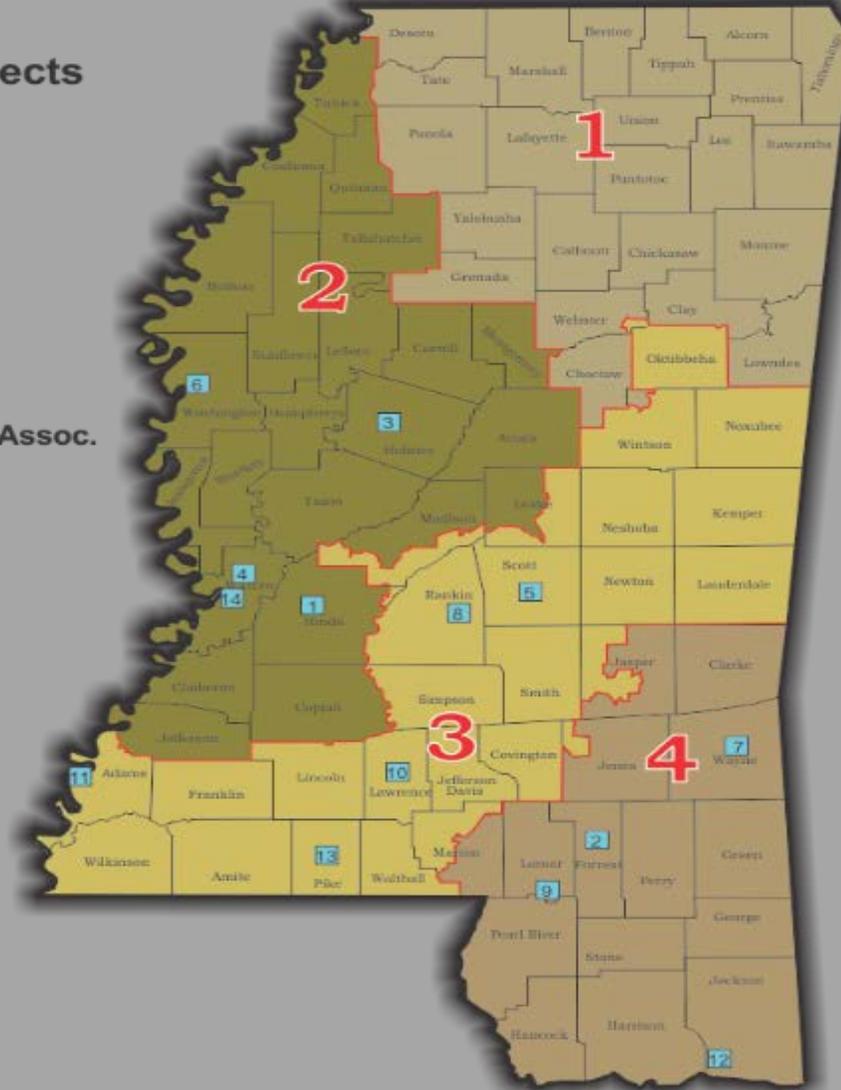
MISSISSIPPI ENVIRONMENTAL INFRASTRUCTURE (SECTION 592)

Mississippi  
CONSTRUCTION



**592**  
Ongoing Projects

- 1 Bolton
- 2 Brooklyn
- 3 Cruger
- 4 Culkin
- 5 Forest
- 6 Greenville
- 7 Hiwanee Water Assoc.
- 8 Pelahatchie
- 9 Lumberton
- 10 Monticello
- 11 Natchez
- 12 Ocean Springs
- 13 Summit
- 14 Vicksburg



Vicinity

State  
of  
Mississippi



Legend

Active  
592

Vicksburg District





**US Army Corps  
of Engineers**  
Vicksburg District

# Mississippi Environmental Infrastructure, MS (Section 592)

Sec 592, WRDA 99; Sec 120, E&WDAA 2004; Sec 101, CAA 2005; Sec 5097, WRDA 07;  
Sec 110, E&WDAA 2010

## Project Fact Sheet

### Construction (EI)

**Location:** Projects are located in multiple towns, cities, and municipalities throughout the State of Mississippi.

**Description:** The Mississippi (Section 592) project provides environmental infrastructure assistance to communities throughout the State of Mississippi. This includes project design and construction assistance for wastewater treatment and related facilities, combined sewer overflows, water supply and storage and related facilities, environmental restoration, and surface water resource protection and development.

**Issues:** The Section 592 program provides communities, associations, and municipalities in the State of Mississippi with the much needed funding to upgrade and replace environmental infrastructure systems listed under the above program description.

**Importance:** The 592 program is a 75/25 cost share, reimbursed to the sponsor. As part of the program, the Vicksburg District provides limited design review, National Environmental Policy Act compliance, construction inspection, and invoice processing for reimbursements. These costs, while a part of the total project costs, are not covered in the obligated amounts for construction.

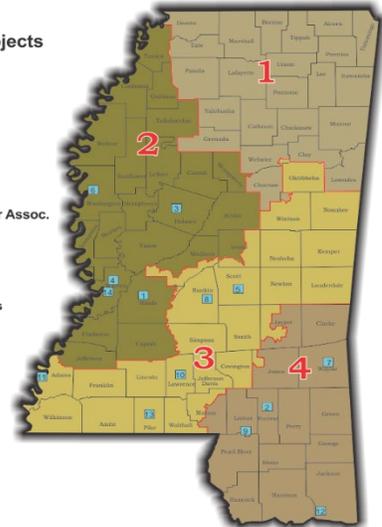
**Risk:** Without the assistance of the Section 592 program the majority of the towns, cities, and municipalities will remain noncompliant and in violation of both state and Federal laws concerning environmental infrastructure.

**Consequence:** A future without the Section 592 program jeopardizes the safety and health of Mississippi's fragile clean water supply, storage, wastewater treatment, and other environmental issues.

**Activities for FY 20:** Funds in the amount of \$3,150,000 will be used to execute a new sewer, wastewater, and water system PPAs.

**592  
Ongoing Projects**

- 1 Bolton
- 2 Brooklyn
- 3 Cruger
- 4 Culkin
- 5 Forest
- 6 Greenville
- 7 Hiwanee Water Assoc.
- 8 Pelahatchie
- 9 Lumberton
- 10 Monticello
- 11 Natchez
- 12 Ocean Springs
- 13 Summit
- 14 Vicksburg



**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** There are no funds in the FY 21 President's budget for this project. Funds in the amount of \$13,350,000 could be used to execute new Project Partnership Agreements for Sewer System improvements (\$5,550,000), wastewater system improvements (\$3,700,000), and water system improvements (\$4,100,000).

**Project Sponsor/Customer:** Multiple

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Kelly (MS-1), Thompson (MS-2), Guest (MS-3), Palazzo (MS-4)

Phase	Estimated Federal Cost of Phase	Federal Funding Thru FY 19	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Construction	\$200,000,000	\$132,759,072	\$3,150,000	\$0	\$13,350,000

# Continuing Authorities Program

*The Continuing Authorities Program (CAP) allows the Corps to respond more quickly than is possible through the specific Congressional authorization process. This is because Congress has delegated to the Corps general authority to study and, if proven feasible, approve and construct certain water resources development projects.*

The program is comprised of eight different types of projects applicable to the Vicksburg District, each with its own project authority and strict limit on the Federal contribution. With all CAP projects, the initial feasibility study is 100% federally funded up to \$100,000. If the feasibility study exceeds \$100,000, the sponsor must contribute 50 percent of the study cost exceeding the \$100,000 limit. As favorable studies progress towards more detailed design and construction, certain project costs must be shared with the local sponsor including any and all costs in excess of Federal project limits. For this reason, the local sponsor must be a non-Federal entity with the power to raise revenue sufficient to satisfy requirements of local cooperation.

<b>Project</b>	<b>Authority</b>	<b>Federal Study Limit (\$)</b>	<b>Study Cost Share if Exceeds Study Limit</b>	<b>Implementation Cost Share Fed/Non-Fed</b>	<b>Federal Project Limit (\$)</b>
<b>Small Flood Control Projects</b>	<b>Section 205</b> 1948 Flood Control Act, as amended	100,000	50%/50%	65%/35% up to 50%/50%	10,000,000
<b>Streambank and Shoreline Protection</b>	<b>Section 14</b> 1946 Flood Control Act, as amended	100,000	50%/50%	65%/35% up to 50%/50%	5,000,000
<b>Snagging and Clearing for Flood Control</b>	<b>Section 208</b> 1954 Flood Control Act, as amended	100,000	50%/50%	65%/35% up to 50%/50%	500,000
<b>Small Navigation Projects</b>	<b>Section 107</b> 1960 River and Harbor Act, as amended	100,000	50%/50%	80%/20% up to 50%/50%	10,000,000
<b>Mitigation of Shore Damage Attributable to Navigation Works</b>	<b>Section 111</b> 1968 River and Harbor Act, as amended	100,000	50%/50%	65%/35%	10,000,000
<b>Environmental Restoration</b>	<b>Section 1135</b> 1986 Water Resources Development Act, as amended	100,000	50%/50%	75%/25%	10,000,000
<b>Ecosystem Restoration in Connection with Dredging</b>	<b>Section 204</b> 1992 Water Resources Development Act, as amended	100,000	50%/50%	75%/25%	10,000,000
<b>Aquatic Ecosystem Restoration</b>	<b>Section 206</b> 1996 Water Resources Development Act, as amended	100,000	50%/50%	65%/35%	10,000,000

**CONTINUING AUTHORITIES PROGRAM MANAGER**

**Barry Moore**

Phone: 601.631.5450

Email: Barrett.G.Moore@usace.army.mil

# 8 Authorities of the Continuing Authorities Program (CAP)

## Section 14

### Emergency Streambank & Shoreline Protection

Flood Control Act of 1946 (PL 79-526), as amended by WRDA 1996

This authority is to prevent erosion damages to highways, bridge approaches, public works, and other nonprofit public facilities by the emergency construction or repair of streambank and shoreline erosion protection. The federal funding limit is \$1.5 million per project and the national program limit is \$15 million. These are two-phase projects: feasibility studies that exceed \$100,000 are cost-shared 50/50 and design and implementation are typically cost-shared 65% federal and 35% non-federal.

## Section 107

### Small Navigation Projects

River and Harbor Act of 1960

This authority provides improvement to navigation including dredging of channels, widening of turning basins, and construction of navigation aids. The federal funding limit is \$7 million per project and the national program limit is \$35 million. These are two-phase projects: feasibility studies that exceed \$100,000 are cost-shared 50/50 and design and implementation are typically cost-shared 80% federal and 20% non-federal.

## Section 205

### Small Flood Control Projects

Flood Control Act of 1948 (PL 80-858), as amended by WRDA 1999

This authority provides for local protection from flooding by the construction or improvement of flood control works such as levees, channels and dams. Nonstructural alternatives are also considered. The federal funding limit is \$7 million per project and the national program limit is \$55 million. These are two-phase projects: feasibility studies that exceed \$100,000 are cost-shared 50/50 and design and implementation are typically cost-shared 65% federal and 35% non-federal.

## Section 206

### Aquatic Ecosystem Restoration

Water Resources Development Act of 1996 (PL 104-303), as amended by WRDA 1999

This authority provides for restoration and protection of aquatic ecosystems if the project will improve the environment and is in the public interest. The federal funding limit is \$5 million per project and the national program limit is \$50 million. These are two-phase projects: feasibility studies that exceed \$100,000 are cost-shared 50/50 and design and implementation are cost-shared 65% federal and 35% non-federal.

## Section 1135

### Project Modification for Improvements to the Environment

Water Resources Development Act of 1986 (PL 99-662), as amended by WRDA 1996

This authority provides for ecosystem restoration through modification to Corps structures or operation of Corps' structures or implementation of restoration features when the construction of a Corps' project has contributed to degradation or the quality of the environment. The Federal funding limit is \$5 million per project and the national program limit is \$40 million. These are two-phase projects: feasibility studies that exceed \$100,000 are cost-shared 50/50 and design and implementation are cost-shared 75% federal and 25% non-federal.

## Section 208

### Snagging and Clearing for Flood Control

Flood Control Act of 1954

This authority provides improvements for flood control by removing accumulated snags and other debris, and clearing and straightening of the channels in streams in the interest of flood control. Study costs for the first \$100,000 is 100% federal with any amount over \$100,000 cost-shared 50% federal and 50% non-federal. Implementation costs are typically cost-shared 65% federal and 35% non-federal with a \$5000,000 federal limit. This federal cost limitation includes all project-related costs for feasibility studies, planning, engineering, construction, supervision and administration.

## Section 204

### Ecosystem Restoration Projects in Connection with Dredging

Water Resources Development Act of 1992, as amended

This authority provides for protection, restoration, and creation of aquatic and wetland habitats in connection with construction and maintenance dredging of an authorized project. Study costs for the first \$100,000 is 100% federal with any amount over \$100,000 cost-shared 50% federal and 50% non-federal. Implementation costs are cost-shared 75% federal and 25% non-federal with a federal funding limit of \$10 million per project and a national program limit of \$50 million.

## Section 111

### Mitigation of Shore Damages

Water Resources Development Act of 1968, as amended

This authority provides for the prevention or mitigation of erosion damages to public or privately owned shores along the coastline of the United States when these damages are a result of a federal navigation project. This authority cannot be used for shore damages caused by river bank erosion or vessel-generated wave wash. It is not intended to restore shorelines to historic dimensions, but only to reduce erosion to the level that would have existed without the construction of a federal navigation project. Cost-sharing may not be required for this program. If the federal cost limitation is exceeded, specific Congressional authorization is required. Study costs for the first \$100,000 is 100% federal with any amount over \$100,000 cost-shared 50% federal and 50% non-federal. Implementation costs are cost-shared 65% federal and 35% non-federal with a federal funding limit of \$10 million per project.



VICKSBURG DISTRICT

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Operation  
and  
Maintenance

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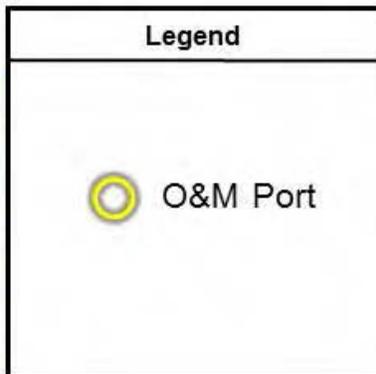
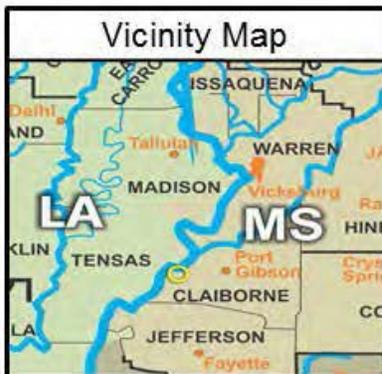


# OPERATION AND MAINTENANCE

The Operation and Maintenance program focuses on the need to preserve the existing Civil Works infrastructure such as locks, dams, navigation channels, recreation facilities and provide adequate levels of service.

M V K . U S A C E . A R M Y . M I L

# CLAIBORNE COUNTY PORT Mississippi OPERATION AND MAINTENANCE (NAV)





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Claiborne County Port, MS

River and Harbor Act of 1960, Section 107

### Operation and Maintenance (NAV)

**Location:** Claiborne County Port, located in Claiborne County, MS, is a slack-water, shallow draft port located along the Mississippi River.

**Description:** The entrance channel is 800 feet long by 150 feet wide and maintained to a minimum depth of 9 feet. The turning basin is 800 feet by 400 feet and maintained to a minimum depth of 9 feet.

**Issues:** This project did not receive any maintenance dredging funds in the FY20 President’s Budget. Depending on river stages, the port experiences low-water conditions starting in July and lasting through November of each year. Maintenance dredging allows this port to continue shipping during these stages.

**Importance:** The port provides a transportation need for water-oriented industries in Claiborne County, Mississippi.

**Risk:** If dredging is not performed, this port will first begin to "light load" barges, in which barges will not be loaded to full capacity resulting in less efficient and costly transportation. As the river continues to fall, there will not be enough water for the towboats to carry these barges to the river and the port will be required to close. Without maintenance dredging funds, this port will lose project dimensions during the busiest time of the year when crops are harvested and shipped.

**Consequence:** The loss of a dependable, reliable and safe port will have significant adverse impacts on the region due to the increased shipping costs by rail and trucks. Many small communities and farmers will be forced to seek other more costly means to move their products. Port employees along with the business located in the harbor would be laid off.



**Claiborne County Port**

**Activities for FY 20:** There are no funds in the FY 20 President’s budget for this project.

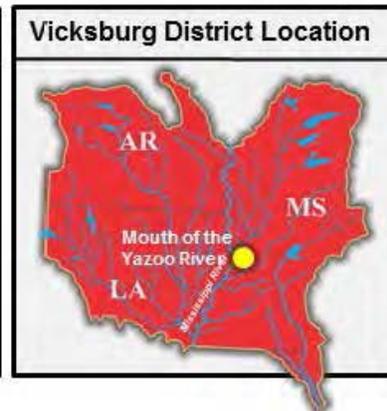
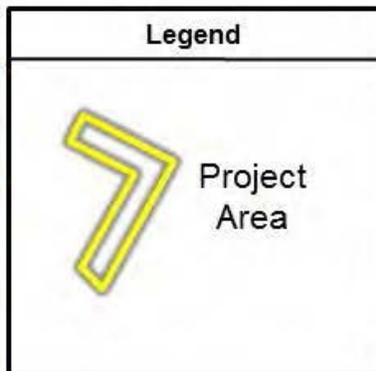
**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** There are no funds in the FY 21 President’s budget for this project. Additional funds in the amount of \$303,000 could be used to fund annual maintenance dredging, slack-water, shallow draft harbor, along the MS River, Claiborne County, Mississippi.

**Project Sponsor/Customer:** Claiborne County Port Commission

**Congressional Interest:** Senate: Wicker and Hyde-Smith; House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
O&M	\$0	\$0	\$303,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Mouth of Yazoo River, MS

River and Harbor Act of 1960, Section 107

### Operation and Maintenance (NAV)

**Location:** Mouth of Yazoo River starts at the Mississippi River and continues for 9.3 miles to the junction of Old Mississippi River and Yazoo River at Vicksburg, Mississippi.

**Description:** The channel is 150 feet wide, and a minimum operating depth of 9 feet below the lowest water of record is maintained in the channel.

**Issues:** Without maintenance dredging, this entrance channel will lose project dimensions requiring the Yazoo River and the Vicksburg Harbor to be shut down during the busiest time of the year when crops are harvested and shipped.

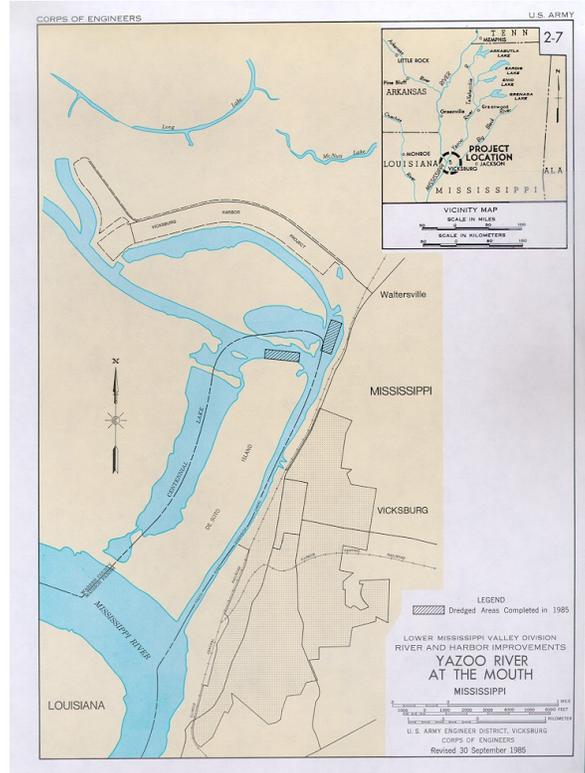
**Importance:** The project’s purpose is to provide access to the Yazoo River, upper Vicksburg Harbor, and the Vicksburg Harbor.

**Risk:** Loss of project depths will have significant adverse impacts on the region due to increased shipping costs by rail and trucks. The Mat Sinking Unit and the dredge MV *Jadwin* anchor in the Vicksburg Harbor and their access to the Mississippi River during low-water stages could be impeded.

**Consequence:** There are 24 businesses and industries located in the harbors dependent on this project. Approximately 2,000 employees with payrolls over \$80 million could be affected if dredging is not performed. The economic impact to the area is approximately \$564.8 million.

**Activities for FY 20:** Funds in the amount of \$330,000 are being used to perform surveys to determine the need for and extent of annual dredging and for annual maintenance dredging.

**Acquisition Strategy:** NA



**Amount That Could Be Used in FY 21:** Funds in the amount of \$30,000 will be used to perform surveys to determine the need for and extent of annual dredging. Additional funds in the amount of \$500,000 could be used for annual maintenance dredging.

**Project Sponsor/Customer:** Vicksburg Port Commission

**Congressional Interest:** Senate: Hyde-Smith and Wicker;  
House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
O&M	\$330,000	\$30,000	\$530,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Pearl River, LA and MS

River and Harbor Act of 1935, as modified by River and Harbor Act of 1966

### Operation and Maintenance (NAV)

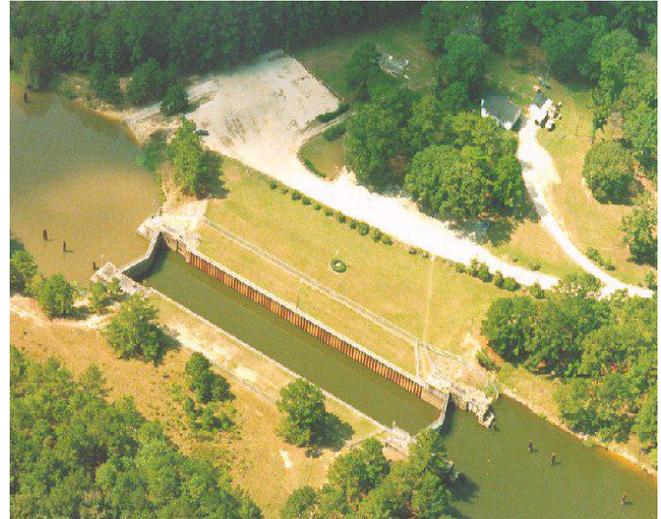
**Location:** The Pearl River Navigation project is a navigation channel on the Pearl River that originally extended 58 miles from the mouth of the Pearl River to the mouth of Bogalusa Creek at Bogalusa, LA.

**Description:** The project consisted of three locks and three weirs that provided a channel with minimum depth of 7 feet and a minimum bottom width of 100 feet. The project was placed in a caretaker status in 1995 and has been maintained only for maintenance and safety needs.

**Issues:** The Pearl River Navigation project has exceeded its 50-year project life and has no commercial traffic. Efforts to reopen the waterway by the Vicksburg District in the mid-1980s to early 1990s by performing needed maintenance dredging were opposed by noncommercial groups. Maintenance dredging was last performed in 1988 and 1989. The last recorded barge movements occurred in 1991. In 1995, environmental litigation seeking declaratory and injunctive relief was filed, and the Corps was enjoined from dredging. In 1995, Congress officially placed the project in "caretaker" status by directing the limited project funds be used for maintenance of caretaker status. The project is in an unmanned caretaker status at this time. Remote gages were installed at all three Locks after Hurricane Isaac to allow the Vicksburg District to monitor the water levels in each lock chamber at all times. An Initial Appraisal Report was prepared in 2003 recommending deauthorization of the project. As of WRDA 2016 the project is no longer authorized. The project is currently part of a Disposition Study.

**Importance:** Disposition and transfer.

**Risk:** Recent engineering assessments completed for the lock facilities indicated that the sheet pile lock walls are rapidly corroding. Failure of the lock walls and/or gates could cause limited flooding and erosion.



**Lock 3**

**Consequence:** Locks are deteriorating and are potentially unsafe. Gates and valves are no longer functional.

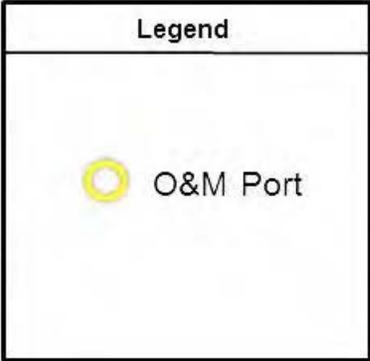
**Activities for FY 20:** Funds in the amount of \$140,000 are being used to maintain the project in a caretaker status.

**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** Funds in the amount of \$140,000 will be used to minimally maintain the project in a caretaker status. Additional funds in the amount of \$9,000 could be used to maintain FY 21 level of maintenance.

**Congressional Interest:** Senate: Cassidy and Kennedy (LA);

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
O&M	\$140,000	\$140,000	\$149,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Rosedale Harbor, MS

River and Harbor Act of 1960, Section 107

### Operation and Maintenance (NAV)

**Location:** Rosedale Harbor is a slack-water, shallow draft harbor located along the Mississippi River in Bolivar County, Mississippi.

**Description:** The harbor channel is 2.7 miles long by 150 feet wide and the turning basin is 1,000 feet long and 400 feet wide. Both the harbor channel and turning basin have a maintained minimum depth of 9 feet.

**Issues:** Depending on river stages, the harbor experiences low-water conditions starting in July and lasting through November of each year. Maintenance dredging allows this port to continue shipping during these stages.

**Importance:** The harbor provides a transportation need for water-oriented industries in Bolivar County, Mississippi. It sustains approximately 325 jobs.

**Risk:** If dredging is not performed, this harbor will first begin to "light load" barges, in which barges will not be loaded to full capacity resulting in less efficient and more costly transportation. As the river continues to fall, there will not be enough water for the towboats to carry these barges to the river and the harbor will be required to close. Without maintenance dredging funds, this harbor will lose project dimensions during the busiest time of the year when crops are harvested and shipped.

**Consequence:** The loss of a dependable, reliable and safe harbor will have significant adverse impacts on the region due to the increased shipping costs by rail and trucks. Many small communities and farmers will be forced to seek other more costly means to move their products. Harbor employees along with the business located in the harbor would be laid off.



**Rosedale Harbor**

**Activities for FY 20:** Funds in the amount of \$35,000 are being used to perform surveys to determine the need for and extent of annual maintenance dredging.

**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** Funds in the amount of \$35,000 will be used to perform surveys. Additional funds in the amount of \$1,050,000 could be used for maintenance dredging (\$900,000) and dredging needed to restore project dimensions (\$150,000).

**Project Sponsor/Customer:** Rosedale-Bolivar County Port Commission

**Congressional Interest:** Senate: Hyde-Smith and Wicker;  
House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
O&M	\$35,000	\$35,000	\$1,085,000



US Army Corps  
of Engineers  
Vicksburg District

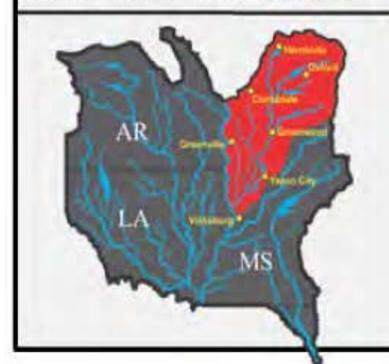
Yazoo River, MS  
Mississippi  
OPERATION AND MAINTENANCE (NAV)



Vicinity Map



Vicksburg District Location





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet Yazoo River, MS

Water Resources Development Act of 1986

## Operation and Maintenance (NAV)

**Location:** The Yazoo River provides navigation from Mouth of the Yazoo River, Vicksburg, Mississippi, to Greenwood, Mississippi.

**Description:** Clearing and snagging of the channel provides a clear channel to Yazoo City, Mississippi. The project depth of 9 feet is authorized but not dredged, to Greenwood, a distance of over 158 miles. All work is done at or near the Vicksburg Harbor just above the Mouth of the Yazoo River.

**Issues:** Without maintenance funds, the project would become hazardous to navigation due to log jams and snags.

**Importance:** The project meets a transportation need of water-oriented industry from Greenwood to Vicksburg.

**Risk:** The River services many small communities and farmers in the Mississippi Delta.

**Consequence:** Approximately 3,855 employees with payrolls over \$80 million could be affected if dredging is not performed. Commercial navigation is provided to the 24 businesses and industries located in the Vicksburg Harbor via the Yazoo River.

**Activities and Current Status for FY 20:** Funds in the amount of \$150,000 are being used for clearing and snagging to maintain the authorized channel.

**Acquisition Strategy:** NA



**Yazoo River**

**Amount That Could Be Used in FY 21:** Funds in the amount of \$20,000 will be used for studies and surveys for navigation. Additional funds in the amount of \$250,000 could be used to perform minimum channel survey, clearing and snagging to maintain the authorized channel to maintain the authorized channel at the confluence of the Yazoo River, Vicksburg Harbor and the Yazoo Canal.

**Project Sponsor/Customer:** Vicksburg Port

**Congressional Interest:** Senate: Hyde-Smith and Wicker (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
O&M	\$150,000	\$20,000	\$270,000

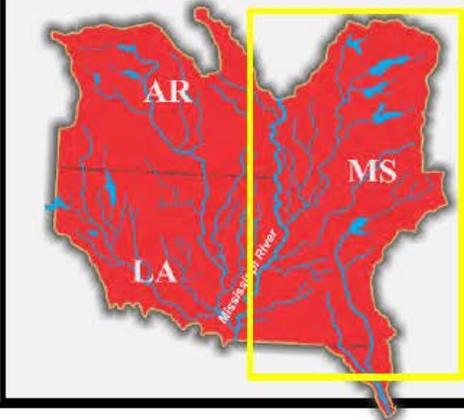


US Army Corps  
of Engineers  
Vicksburg District

INSPECTION OF COMPLETED WORKS  
Mississippi  
OPERATION & MAINTENANCE (FRM)



Vicksburg District Location





**US Army Corps  
of Engineers  
Vicksburg District**

# Project Fact Sheet

## Inspection of Completed Works (ICW) MS

Rivers and Harbors Act (RHA) of 1899 (Section 408); Flood Control Act (FCA) of 1937 (Section 2); RHA of 1945 (Section 3); FCA of 1946 (Section 14); FCA of 1948 (Section 205); FCA 1970 (Section 221); 33 Code of Federal Regulations, Part 208

### Operation & Maintenance (FRM)

**Location:** The project covers the portion of the Vicksburg District located within the state of Mississippi.

**Description:** Perform annual levee safety inspections, prepare and transmit reports to local sponsors, and perform levee safety program management functions for 20 miles of levees, 71 miles of channels, 6 drainage structures and 4 pumping stations in Mississippi.

**Issues:** The labor intensive requirement to perform periodic inspections on all levee systems is consuming excessive amounts of the limited ICW funding we traditionally have received to perform annual inspections. This is deferring the annual inspection of some infrastructure items.

**Importance:** These inspections allow the Vicksburg District to identify deficiencies that may have life safety consequences. These inspections also verify the adequacy of Operation and Maintenance activities by the sponsors and reveal where improvements are needed to ensure the flood damage reduction features function as designed.

**Risk:** The public relies on the flood damage reduction systems to protect life and infrastructure from high water events.

**Consequence:** Population at risk is 5,644, the number of structures at risk is 2,924 valued at \$1,162,258,000.



**Structure Inspection**

**Activities for FY 20:** Funds for FY 20 President’s Budget are to be determined.

**Acquisition Strategy:** None.

**Amount That Could Be Used in FY 21:** Funds for FY 21 President’s Budget are to be determined. Additional funds in the amount of \$47,000 could be used for levee and channel inspections. Reports will be generated and provided to local sponsors for their use to incorporate and schedule repair of deficiencies into their levee maintenance program.

**Project Sponsor/Customer:** Rankin-Hinds Pearl River Flood and Drainage District, Quitman County, Deep Bayou Drainage District, Tallahatchie County, Panola-Quitman Drainage District, City of Greenwood, Pearl River Basin Drainage District, Lead Bayou Drainage District, New Porter Bayou Drainage District, Home Cypress Watershed District, Greenville Port Commission, Adams County Board of Supervisors.

**Congressional Interest:** Senate: Hyde-Smith and Wicker (MS), House: Kelly (MS-1), Thompson (MS-2), Guest (MS-3)



**Levee Inspection**

FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
TBD	TBD	\$47,000



VICKSBURG DISTRICT

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# MR&T

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# Investigations



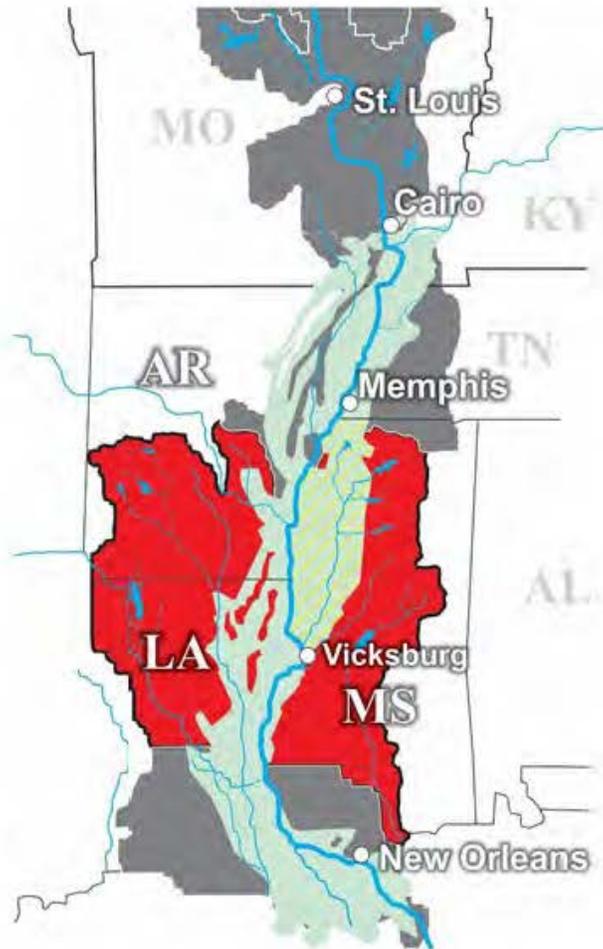




# MR&T INVESTIGATIONS

The major objective of the MR&T Investigations program is to study projects that provide solutions to water resource problems for the area within the MR&T authorized project, generally from the area along the Mississippi River from Cairo, IL, to the Gulf of Mexico. The Corps undertakes studies in response to directives (authorizations) from Congress. Congressional authorizations are contained in public law and in resolutions of either the House Public Works and Transportation Committee or the Senate Environment and Public Works Committee.

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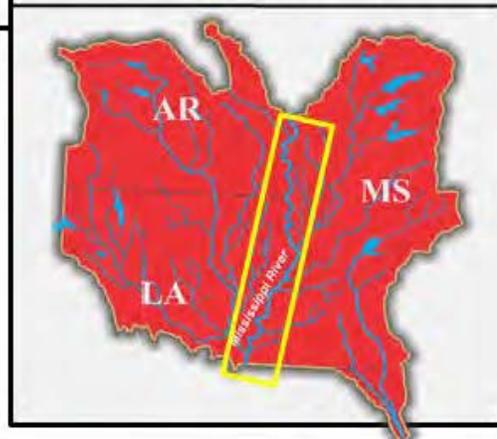
Vicinity Map



**Legend**

- Vicksburg District
- MR&T Project Area
- LIDAR Data Area

**Vicksburg District Location**





US Army Corps  
of Engineers  
Vicksburg District

# Project Fact Sheet

## Collection and Study of Basic Data, AR, LA, MS, IL, TN, MO, KY (MVK ONLY)

### Mississippi River and Tributaries, Investigations (FRM)

**Location:** The Collection and Study of Basic Data project is located throughout the Mississippi Valley Division.

**Description:** Data collected consist of information on stream flow, sediments and nutrients, rainfall, floods channel adequacy, water quality and quantity, aquatic resource monitoring and other items of related hydrologic nature.

**Issues:** Data collected under this activity are for authorized flood control projects for which funds have been appropriated in the Memphis, Vicksburg, and New Orleans Districts. Data are used by numerous agencies and the public to determine when flooding will occur and to plan for any evacuations. In addition, the Environmental Protection Agency and state environmental quality agencies are now recognizing water quality and quantity as critical elements in environmental protection planning and construction. Aquatic resources are a good indication of the water quality and quantity of a particular stream. These data are vital to show projects are in conformance with state and Federal laws.

**Importance:** Data collection is essential in the planning, design, construction, and operation and maintenance of authorized flood control projects, especially significant after the Flood of 2011.

G&P issues are directly related to future operation of the system.

**Risk:** Without adequate funding of this data gathering, the Mississippi River Commission and Districts would lose the ability to make accurate flood predictions and to determine how to manage the systems over the long term.

**Consequence:** If essential hydraulic and hydrologic and water quality data could not be collected data would not be available to accurately predict future flood and drought conditions on major reservoirs and rivers within the Lower Mississippi Valley. Decision makers will be ill advised on when to operate structure and local citizens would be at risk of increased flooding.



**Activities for FY 20:** Funds in the amount of \$2,250,000 are being used for survey of permanent ranges, Aquatic/Water Quality and Quantity Monitoring, base stream flow analysis, and collections and surveys.

**Acquisition Strategy:** None.

**Amount That Will Be Used in FY 21:** Funds in the amount of \$500,000 will be used for management and prediction of flood risk. Additional funds in the amount of \$3,750,000 could be used for management and prediction of flood risk (\$900,000), water quality and preservation of historical records (\$2,850,000).

**Project Sponsor/Customer:** Levee boards along the Mississippi River from Cape Girardeau, Missouri to Head of Passes, Louisiana.

**Congressional Interest:** Senate: Boozman and Cotton (AR), Cassidy and Kennedy (LA), Hyde-Smith and Wicker (MS); House: Crawford (AR-1), Westerman (AR-4), Scalise (LA-1), Johnson (LA-4), Abraham (LA-5), Kelly (MS-1), and Thompson (MS-2).

Phase	Estimated Federal Cost of Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Feasibility	N/A	\$2,250,000	\$500,000	\$4,250,000



VICKSBURG DISTRICT

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# MR&T

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# Construction







# MR&T CONSTRUCTION

The objective of the MR&T construction program is to construct and complete authorized and appropriated MR&T projects as economically and quickly as practicable within program constraints and consistent with current national priorities.

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US Army Corps  
of Engineers  
Vicksburg District

MISSISSIPPI RIVER CHANNEL IMPROVEMENT  
Arkansas, Louisiana, and Mississippi  
MISSISSIPPI RIVER AND TRIBUTARIES, Construction (FRM)



**2018 Dike Construction Projects:**

**484.4 L, Ajax Bar**

**489.0 L, Ben Lomond (Supplemental)**

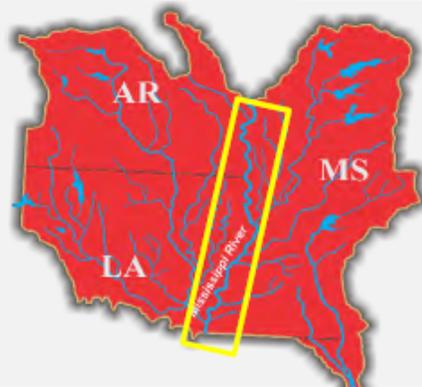
**Vicinity Map**



**Legend**

- 2018 Dike Construction
- 2018 Dike Construction (Supplemental)

**Vicksburg District Location**





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Channel Improvement, Revetment and Dikes, AR, LA, & MS

Flood Control Acts of 1928 (Section 1); 1936 (Section 1); 1938 (Section 4); 1941 (Section 3); 1944 (Section 10); 1962 (Section 203); 1965 (Section 201, 204); 1966 (Section 202, 203); and 1970 (Section 207)

### Mississippi River and Tributaries, Construction (FRM, NAV)

**Location:** The project is located in the Mississippi River and along its banks from the vicinity of Cessions Towhead at River Mile 616 AHP, to Union Point at River Mile 326 AHP, a distance of approximately 290 miles.

**Description:** The plan of improvement consists of stabilization of the Mississippi River main channel in a desirable alignment for purposes of flood control and navigation by means of revetments, river training structures (dikes, chevrons, and bendway weirs), and improvement dredging.

**Issues:** The Mississippi River channel improvement construction project is not complete. The remaining planned revetments and dikes are required to provide a complete system capable of providing protection for the flood risk management levees and providing an efficient channel for commercial navigation.

**Importance:** River training structures improve navigation conditions, stabilize bends, and reduce required maintenance dredging requirements. Revetment construction maintains channel alignment and protects the banks from erosion.

**Risk:** Catastrophic damage to the navigation channel, river banks, and adjacent mainline levee is likely to occur if the system is not fully constructed as authorized.

**Consequence:** Failure to adequately fund will result in channel deterioration which would adversely impact the navigation industry in economically and efficiently transporting commodities on the Mississippi River. Continued erosion of banks and/or failure of revetments would adversely impact channel alignment and threaten the integrity of the mainline levee system.



**Revetment Construction – Articulated Concrete Mat (ACM)**

**Activities for FY 20:** Funds in the amount of \$21,800,000 are being used to award a construction contract for Victoria Bend Dikes, Phase I (extending and raising), plan and design of channel dikes construction, and construction of articulated concrete mattress projects.

**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** Budgeted funds in the amount of \$12,750,000 are being used to award a contract for Tarpley Cutoff Dikes, Plan and Design of Channel Dikes Construction at Victoria Bend, Tarpley Cutoff and Anconia, and articulated concrete mattress projects. Additional funds in the amount of \$58,790,000 could be used for awarding new contracts (\$15,610,000), design and construction of new dikes design and construction of articulated concrete mattress revetment (\$32,340,000), and Refuge Stone Bank Paving at Dikes 1A, 1B & 1C and Anconia Chute Dike 1U (\$10,840,000).

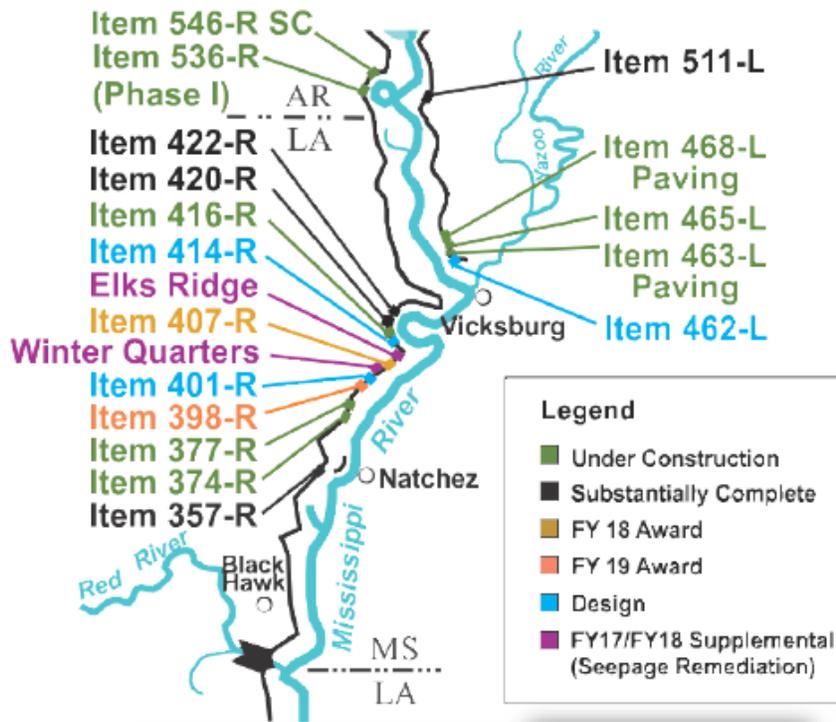
**Project Sponsor/Customer:** Navigation industry, environmental community, and Mississippi Levee, Fifth Louisiana Levee District, and Southeast Arkansas Levee Boards.

**Congressional Interest:** Senate: Boozman and Cotton (AR), Cassidy and Kennedy (LA), Hyde-Smith and Wicker (MS); House: Crawford (AR-1), Westerman (AR-4), Abraham (LA-5), Thompson (MS-2), and Harper (MS-3)



**Stone Dike Construction**

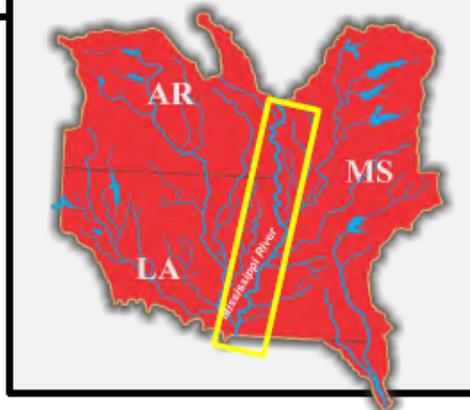
Estimated Federal Cost of Phase	Federal Funding Thru FY 19	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
\$1,414,000,000	\$1,147,744,731	\$21,800,000	\$12,750,000	\$71,540,000



Vicinity Map



Vicksburg District Location





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet Mississippi River Levees, AR, LA & MS

Flood Control Acts of 1928, 1936, 1941, 1944, 1946, 1950, 1954, 1962, 1965, 1968, River Basin  
Monetary Authorization Act of 1971, WRDA 1992, Sec 103, WRDA 2000, Section 508

## Mississippi River and Tributaries, Construction (FRM)

**Location:** The Mississippi River levee system on the west bank extends from Allenville, Missouri, on the Little River Diversion Channel generally southward to Venice, Louisiana, and on the east bank from Hickman, Kentucky, to opposite Venice, Louisiana, except where interrupted by hills and tributary streams. Included in the system are the levees, which protect Mounds, Mound City and Cairo, Illinois, and the New Madrid Levee and Floodway.

**Description:** The plan of improvement provides for raising, strengthening, and in some cases, extending existing levees to provide protection against the project design flood. It currently features 1,595 miles of levees and 14.8 miles of floodwall, totaling 1,609.8 miles, that provides protection to 35,000 square miles and partial protection to an additional 3,780 square mile in the alluvial valley that are subject to flooding. The system has four backwater areas and four floodways that have prevented \$1.04 Trillion in damages at a cost of \$15.5 Billion since it was authorized by FCA of 1928. The benefit cost ratio is 66.9 to 1.

**Issues:** Critical work is needed to ensure the integrity of the project and continued protect people and property from flooding. This critical work consists of constructing levee enlargements, floodwalls, seepage berms, relief wells and slope paving where levees are deficient.

**Importance:** The Mississippi River Levees are designed to protect people, property, infrastructure, and the environment in the alluvial valley against the project design flood by confining flow to the channel between the levees and natural hill lines, except where it enters natural backwater areas or is diverted purposely into floodway areas.

**Risk:** Failure to address the identified areas will significantly increase risk of catastrophic flood events and compromise public safety. Maintenance of the system is a constant challenge and annual funds are required to repair levee slides, rehabilitate relief wells and place gravel on roadways on top of the levee. The system has the potential to reach flood stage every year requiring levee boards and COE to be vigilant and ensure maintenance is performed annually to preserve the integrity of the system.



**Consequence:** A breach in the levee could result in over 1 million acres inundated, towns and cities flooded, and lives lost. Commercial impacts include roads, agricultural and timber production. Farmland is at risk of flooding, resulting in devastation of the primary economic engine of the region. Environmental losses of terrestrial habitat and wildlife would be significant.

**Activities for FY 20:** Funds in the amount of \$14,750,000 are being used to complete design for Mississippi River Levee Items 414-R, 401-R and 368-R, award a contract for Item 414-R, and for a USGS Resistivity study.

**Amount That Could Be Used in FY 21:** Budgeted funds in the amount of \$13,650,000 will be used to award a contract for Item 401-R, Yucatan-Lake-Lake Bruin, Louisiana, complete design and S&A for multiple Items. Additional funds in the amount of \$43,666,000 could be used to award contracts (\$30,050,000) (Items 614-L, 555-R, 525-R, 520-R, 401-R, 393-R, 370-R, 368-R, 367-R, and 366-R) and continue design on future award items (\$13,600,000).

**Acquisition Strategy:** Construction contracts may be awarded via various mechanisms which may include Unrestricted, Restricted, Set aside, MATOC and IFB.

**Project Sponsor/Customer:** Mississippi Levee Board, Fifth Louisiana Levee District, and Southeast Arkansas Levee District.

**Congressional Interest:** Senate: Boozman and Cotton (AR), Cassidy and Kennedy (LA), Hyde-Smith and Wicker (MS); House: Crawford (AR-1), Westerman (AR-4), Scalise (LA-01), Abraham (LA-5), Kelly (MS-1), Thompson (MS-2), Guest (MS-3).

Phase	Estimated Federal Cost of Phase	Federal Funding Thru FY19	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Construction	\$1,130,000,000	\$753,585,750	\$14,750,000	\$13,650,000	\$57,316,000



US Army Corps  
of Engineers  
Vicksburg District

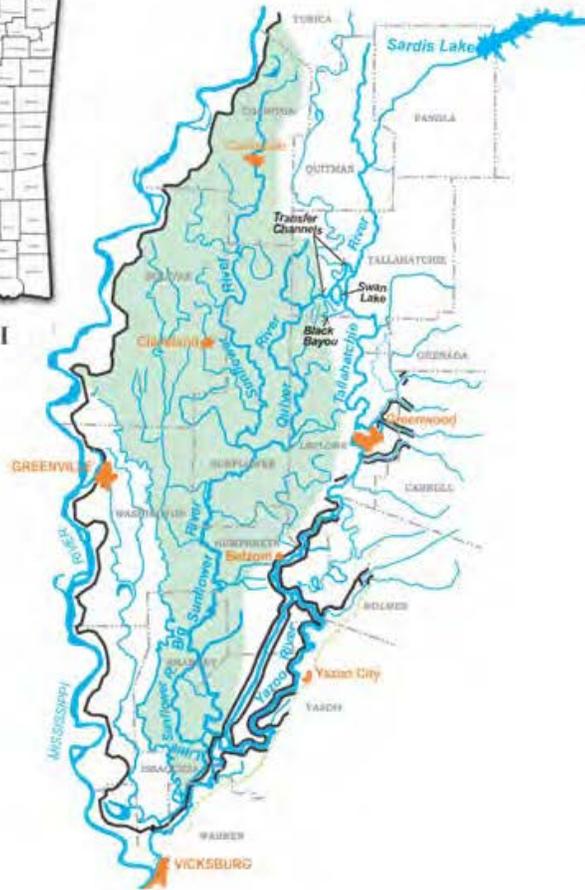
# YAZOO BASIN, BIG SUNFLOWER RIVER Mississippi MISSISSIPPI RIVER AND TRIBUTARIES, Construction (FRM)



Area of  
Enlarged  
Map



MISSISSIPPI



Vicinity Map



Legend

-  Drainage Basin
-  Levee

Vicksburg District Location





US Army Corps of Engineers  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Big Sunflower River, MS

Flood Control Act of 1944, 1950, 1962 and 1965

### Mississippi River and Tributaries, Construction (FRM)

**Location:** The Steele Bayou Basin lies within the Delta region of west-central Mississippi. Its 752-square-mile drainage area runs from north of Greenville to its confluence with the Yazoo River just north of Vicksburg.

**Description:** The project consists of 739 miles of channel, 9 miles of levees and will protect 195,000 acres against the design flood. An additional 395,000 acres will be benefited because of improved drainage conditions. The project will provide flood protection and environmental enhancements for this region.

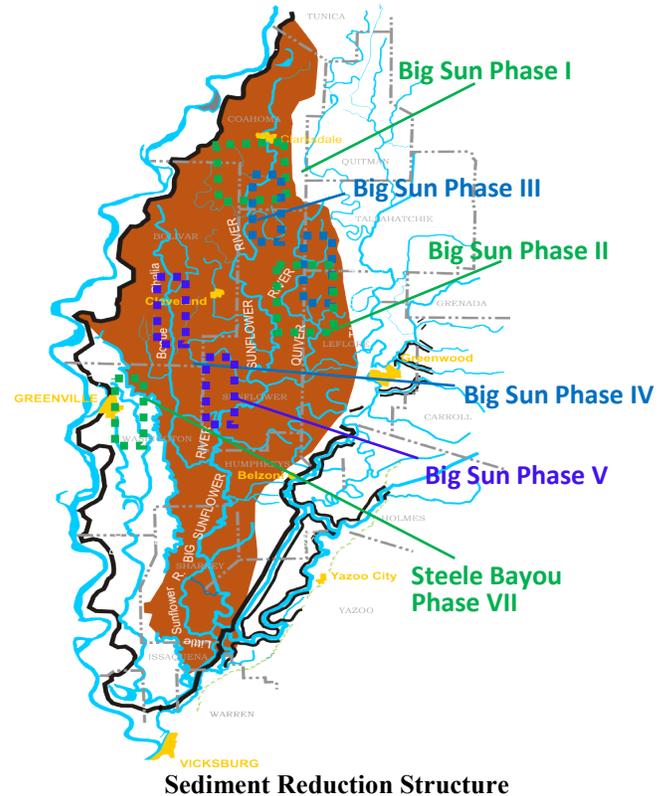
**Issues:** The Environmental Protection Agency and Mississippi Department of Environmental Quality have recognized in recent years the impacts of sediment and nutrients on environmental resources in the Big Sunflower River Basin. The installation of sediment reduction structures will improve the water quality in the basin.

**Importance:** Between the years 1990-2009 the sediment reduction structures have reduced approximately 686,000 tons of sediment that would have naturally been deposited in delta streams. Keeping sediment out of the streams improves channel flow capacity during times of flooding and reduces dredging frequency.

These structures also benefit the environment by keeping agricultural fertilizers and pesticides out of the streams, thereby contributing to another one of the Corps' major missions of ecosystem restoration. The monitoring of water quality over a number of years will allow documentation of these long-term benefits and the development of Total Maximum Daily Load targets.

**Risk:** Impacts could include increased sediment and nutrient loads. Diminished channel capacity would increase the frequency, duration, and effects of flooding in this area.

**Consequence:** Without additional funding, all work will be suspended. No further monitoring and documentation of long-term benefits will occur and work addressing sedimentation and erosion control will come to a halt.



**Activities for FY 20:** Funds in the amount of \$2,942,000 will be used for construction on Phase X and for survey/design on Phase XI.

**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** There are no funds in the FY 21 President's budget for this project. Funds in the amount of \$4,100,000 could be used for further construction, surveys, and design.

**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board and Mississippi Levee Board

**Congressional Interest:** Senate: Hyde-Smith and Wicker (MS); House: Thompson (MS-2)

Phase	Estimated Federal Cost of Phase	Federal Funding Thru FY 19	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Construction	\$150,012,000	\$144,405,958	\$2,942,000	\$0	\$4,100,000

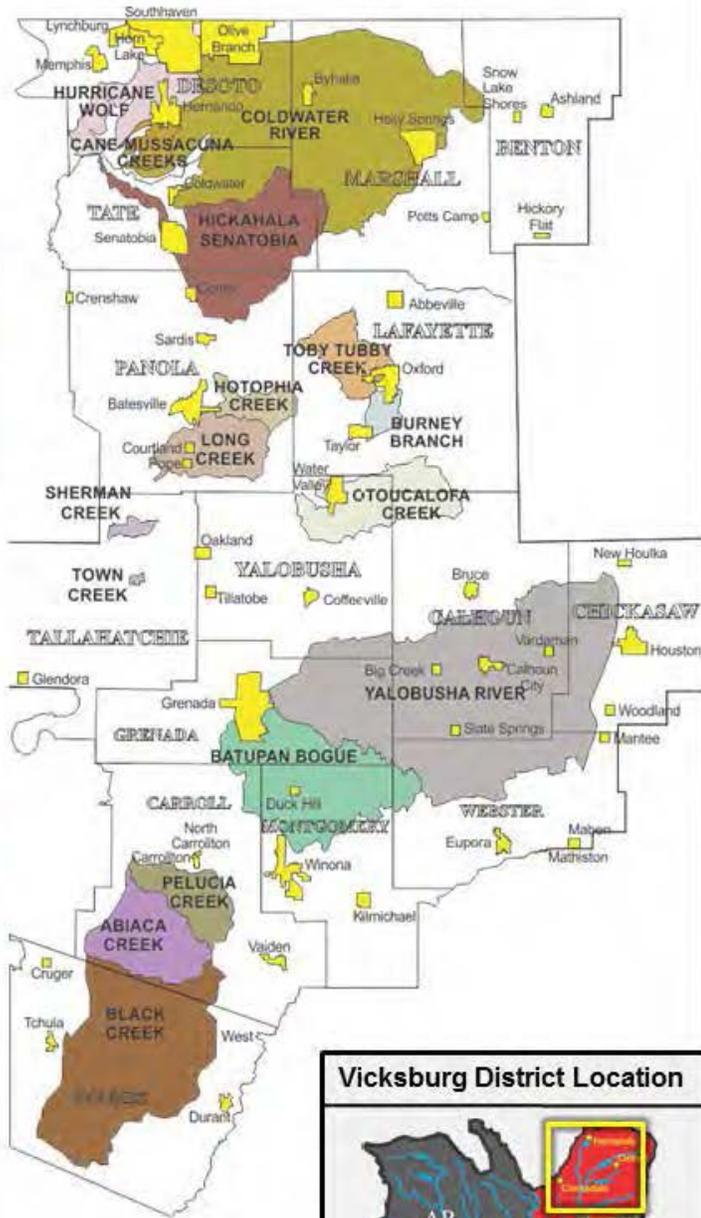


US Army Corps  
of Engineers  
Vicksburg District

# YAZOO BASIN, DELTA HEADWATER PROJECTS

## Mississippi

### MISSISSIPPI RIVER AND TRIBUTARIES, Construction (FRM)



Vicinity Map



Vicksburg District Location





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Delta Headwaters, MS

Emergency Jobs Appropriations Act of 1982; WRDA 1986, Section 103e

### Mississippi River and Tributaries, Construction (FRM)

**Location:** The project is located in the eastern (hill) section of the Yazoo River Basin, MS.

**Description:** The project consists of 16 watersheds, ranging in size from 1 square mile (Town Creek) to over 600 square miles (Coldwater River), with features that include bank stabilization, grade control structures, floodwater-retarding structures, and channel modifications for flood damage reduction, bank stabilization and sedimentation/erosion control.

**Issues:** The program is vital to the ongoing erosion prevention in the 16 authorized watersheds. By completing the needed work, the Vicksburg District will reduce the risk of flooding in the Yazoo Basin. This will also reduce the sediment deposited in downstream reservoirs and streams including the Mississippi River, reduce the need for maintenance dredging, and improve degradation of wildlife habitat in and along the streams.

**Importance:** The project provides important flood control, environmental, water quality, and sediment reduction benefits, in addition to economic stimulus benefits to the basin. It is the only program of its kind in the Mississippi River Valley and has proven to be a valuable model that can be used throughout the entire Mississippi River Valley.

Erosion from agricultural land frequently carries agricultural chemicals and fertilizers adding to the Gulf Hypoxia. Consequently, reducing erosion improves water quality. Once stabilized, stream systems provide improved wildlife habitat both in and along the streams.

**Risk:** The program is not within the Administration’s policy; therefore, no long-term program planning can occur.

**Consequence:** Without funding, all work will be suspended, resulting in no further work to stop sedimentation, control erosion, or improve water quality. Land will continue to erode, towns and farms will continue to flood, and existing structures will fall into disrepair.



Yazoo Basin, MS  
Mississippi Delta  
Headwaters Project

**Activities for FY 20:** There are no funds in the FY 20 President’s Budget for this project.

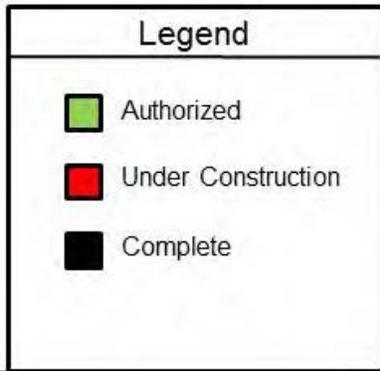
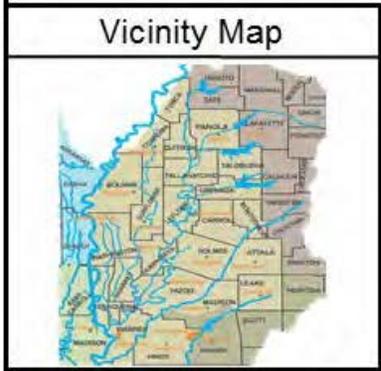
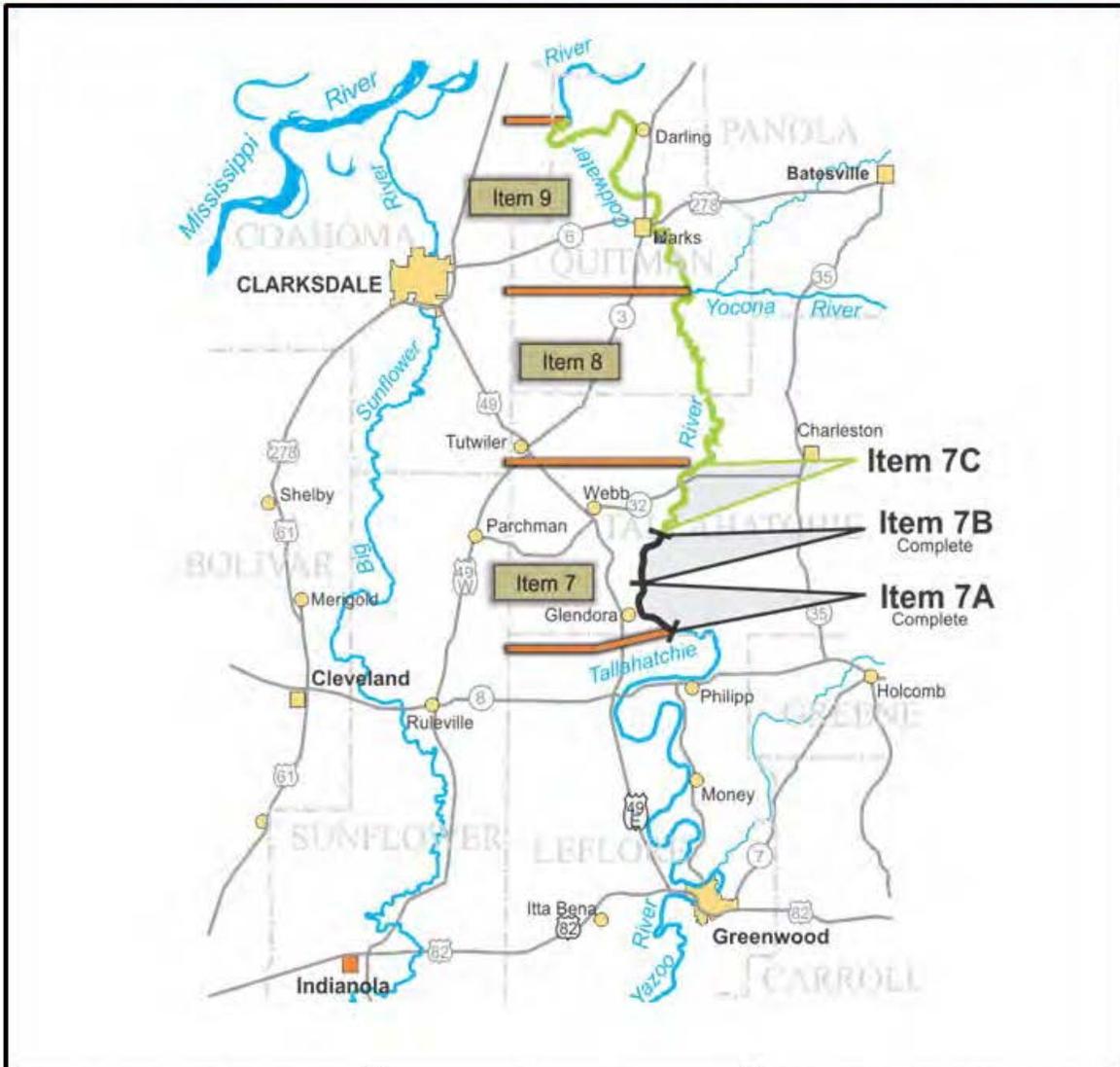
**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** There are no funds in the FY 21 President’s budget for this project. Funds in the amount of \$34,250,000 could be used for design and surveys of future items (\$20,500,000), bank stabilization (\$6,050,000), flood risk management (\$3,700,000) and riser pipe items (\$4,000,000).

**Project Sponsor/Customer:** Multiple

**Congressional Interest:** Senate: Hyde-Smith and Wicker (MS); House: Kelly (MS-1), Thompson (MS-2)

Phase	Estimated Federal Cost of Phase	Federal Funding Thru FY 19	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Construction	\$753,335,000	\$453,615,618	\$0	\$0	\$34,250,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Upper Yazoo Projects, MS

Flood Control Acts of 1936, Sec. 4 and 8a; 1941, Sec. 3b and 3g; 1946, Sec. 3, 10f, and 10q; and 1965, Sec. 2045

### Mississippi River and Tributaries, Construction (FRM)

**Location:** The Upper Yazoo Projects (UYP) includes channel and levee features along the main channel of the Yazoo, Tallahatchie, and Coldwater Rivers from the vicinity of Yazoo City, Mississippi, to the vicinity of the confluence of Arkabutla Creek with the Coldwater River.

**Description:** The project provides much needed flood risk reduction for this region by decreasing flood stages up to 3 feet in most areas. The project began in 1976 near Yazoo City and had advanced to near Sidon, MS before the project was reformulated in 1994. Reformulation resulted in approximately 130.3 miles of channel enlargement in nine segments from Sidon to Darling, MS. The project focuses on cleaning out and restoring channel capacity to the Yazoo River and its tributaries. Before initiating construction on the UYP, about 1.1 million acres were subject to the 100-year flood. Damages totaled more than \$18,600,000 annually, including \$3,000,000 in urban damages and 700,000 acres of agricultural land subject to inundation. To date, 12,400 acres of mitigation lands have been acquired. A total of 16,250 acres of mitigation land is required for this project.

**Issues:** Absence of funding will delay remaining flood control and economic benefits to the area by not allowing the initiation of any new construction items. Currently there are 29,000 people protected in the 100-year flood plain. In the past five years there has been significant bank caving in these channels which greatly diminishes the conveyance and increases the flooding in the area.

**Importance:** The project provides flood protection for 8,900 square miles in this region through reduction of flood stages up to 3 feet in most areas. Approximately 26 million cubic yards of material will be excavated at the project's completion providing an average conveyance increase of approximately 50 percent over current channel capacity. Existing flooding damages would be reduced by 55 percent. To date, we have invested \$297,000,000 that allowed protection to almost 90,000 acres of urban and agricultural land. There is still over 47,000 acres that remain unprotected. Due to the highly erodible soils of the Mississippi Delta, it is imperative that this project is completed to increase conveyance and stabilize banks along the Yazoo River. This project also allows us to operate the four North Mississippi



**Construction along the bank of the Tallahatchie River  
Item 6B near Phillip, MS**

reservoirs more efficiently to provide flood protection to the entire Yazoo Basin, allowing us to store water in the spring and release during the crop season and not carry floodwaters over from one flood season to another.

**Risk:** Impacts include loss of life, isolation of homes and numerous rural communities and months of flooding.

**Consequence:** Commercial impacts include roads, agricultural and timber production. Farmland is at risk of flooding, resulting in devastation of the primary economic engine of the region. Environmental losses of terrestrial habitat and wildlife would be significant.

**Activities for FY 20:** Funds in the amount of \$2,750,000 are being used to fully fund land acquisition for Item 8A, evaluation and design of Item 8A and 7D, Phase 2 and the Water Control Master Plan.

**Acquisition Strategy:** N/A

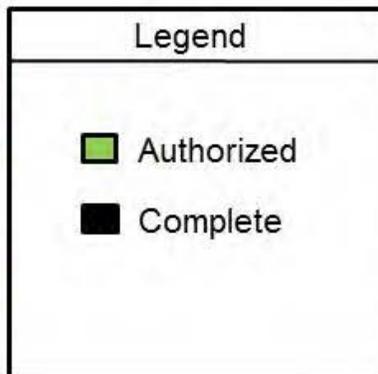
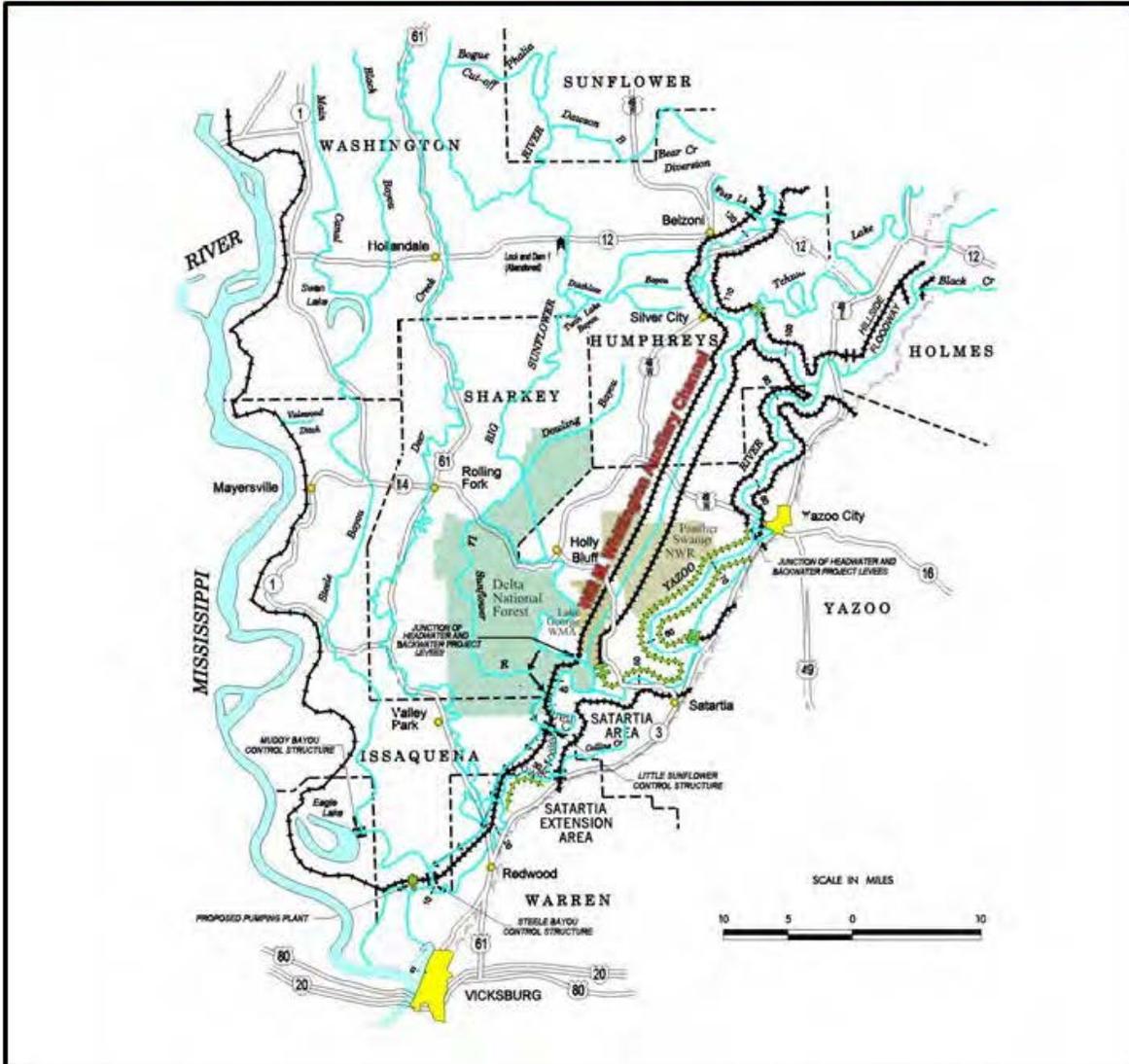
**Amount That Could Be Used in FY 21:** There are no funds in the FY 21 President's Budget for this project. Funds in the amount of \$14,650,000 could be used to evaluate and design Item 8B (\$1,550,000), construct Item 7C Phase II (\$1,500,000) and 8 (\$10,000,000).

**Project Sponsor/Customer:** The Yazoo-Mississippi Delta Levee Board

**Congressional Interest:** Senate: Hyde-Smith and Wicker (MS); House: Thompson (MS-2)

Phase	Estimated Federal Cost of Phase	Federal Funding Thru FY 19	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Construction	\$476,000,000	\$331,566,431	\$2,750,000	\$0	\$14,650,000

**YAZOO BASIN, Yazoo Backwater Area Less Rocky Bayou**  
**Mississippi**  
**MISSISSIPPI RIVER AND TRIBUTARIES, Construction (FRM)**





US Army Corps  
of Engineers  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Yazoo Backwater Less Rocky Bayou, MS

Flood Control Acts of 1941 and 1944

### Mississippi River and Tributaries, Construction (FRM)

**Location:** The Yazoo Backwater Project lies in the southern part of the Delta in west-central Mississippi. It extends from just north of Vicksburg approximately 60 miles to the vicinity of Hollandale and Belzoni, Mississippi.

**Description:** The Yazoo Backwater Project is situated between the mainline Mississippi River levee and the escarpment which forms the eastern boundary of the Delta and is subject to backwater flooding from the Mississippi River. It comprises about 2,000 square miles. Four green-tree reservoirs and associated pump stations were constructed by the Corps of Engineers for the Yazoo Backwater mitigation. In addition, 8,800 acres of agricultural lands were purchased and reforested to offset terrestrial environmental losses from the construction of the Yazoo Backwater and Satartia area levees, completed in 1978.

The 8,800 acres were purchased in 1990 and reforestation was completed in 1997. The U.S. Fish and Wildlife Service disagreed with the Vicksburg District’s mitigation analysis because it didn’t include the time lag between construction completion (1978) and mitigation implementation (1990). The Service’s position was that the losses were continuing between 1978 and 1990, and therefore more mitigation was required. The Vicksburg District concurred with the Service and incorporated an updated mitigation analysis in the 2007 Yazoo Backwater Area Reformulation Report and Environmental Impact Statement (EIS). The Yazoo Backwater Area Reformulated project was not implemented and there still remains an unfulfilled mitigation requirement for the project.

**Issues:** No funds for acquisition and development of mitigation features. An additional acquisition of approximately 3,300 acres is needed to fulfill the terrestrial mitigation requirements for the Yazoo Backwater and Satartia Area Levees.

**Importance:** Yazoo Backwater mitigation features are needed to fulfill project commitments to offset unavoidable environmental losses.



Waterfowl - Yazoo Backwater Area

**Risk:** The environmental losses will continue to occur unless they are mitigated. By not purchasing the additional mitigation lands now, the amount required to fully offset the environmental losses increases every year.

**Consequence:** There is a net loss of ecological value to the nation as a result of this project, which is not consistent with current policy law and guidance.

**Activities for FY 20:** Funds in the amount of \$7,500,000 are being used to acquire mitigation land and for the Yazoo Backwater Pump Station Record of Decision.

**Acquisition Strategy:** N/A

**Amount That Could Be Used in FY 21:** There are no funds in the FY 21 President’s Budget for this project. Funds in the amount of \$11,500,000 could be used to could be used to acquire mitigation land (\$6,000,000) and for survey and design (\$5,500,000).

**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board and Mississippi Levee Board

**Congressional Interest:** Senate: Hyde-Smith and Wicker (MS); House: Thompson (MS-2)

Phase	Estimated Federal Cost of Phase	Federal Funding Thru FY 19	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Construction	\$661,000,000	\$91,571,007	\$7,500,000	\$0	\$11,500,000



VICKSBURG DISTRICT

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# MR&T

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# Maintenance







# MR&T MAINTENANCE

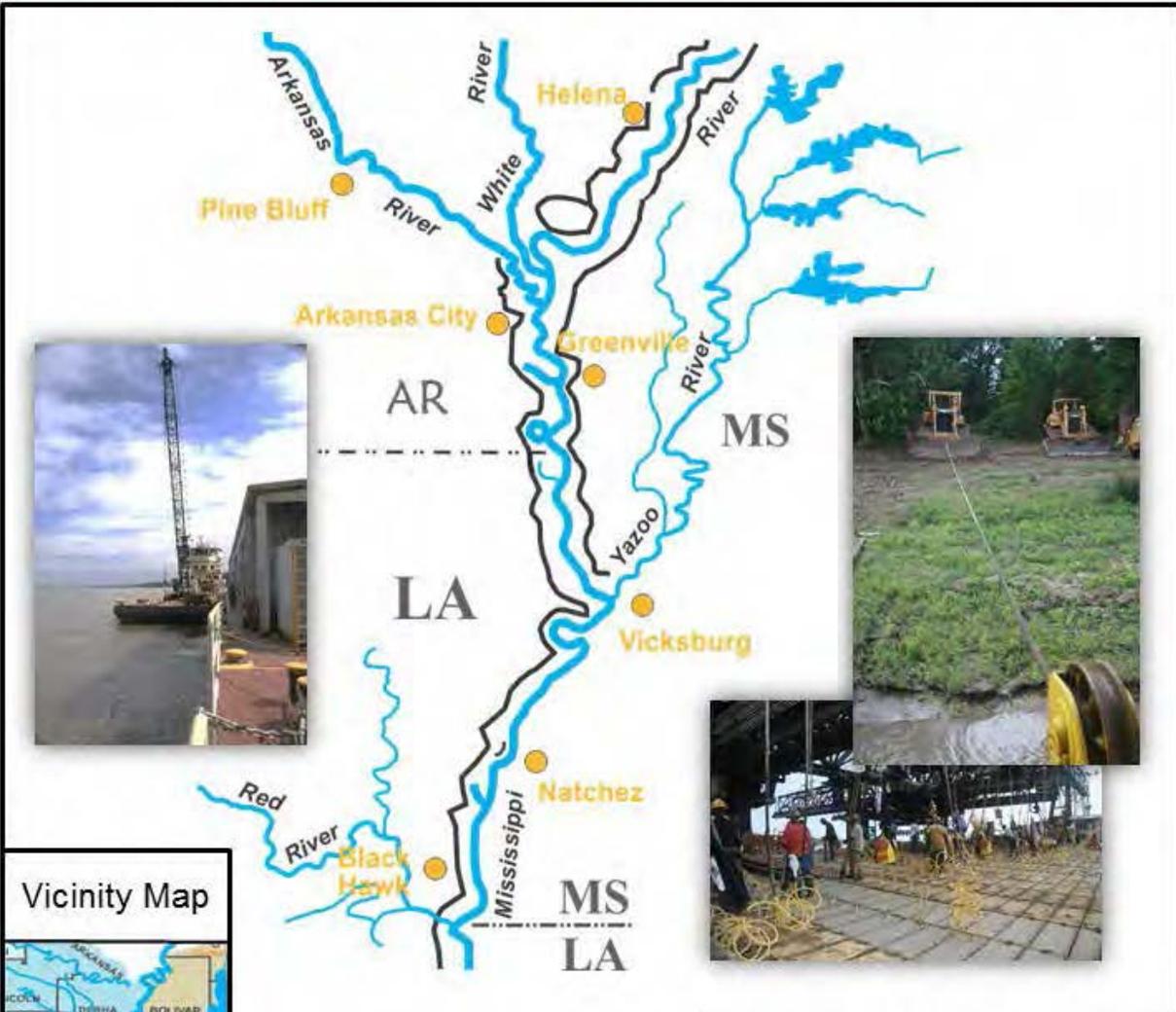
The MR&T Maintenance program focuses on the need to preserve the existing infrastructure and provide justified levels of service at the least cost.

M V K . U S A C E . A R M Y . M I L



US Army Corps  
of Engineers  
Vicksburg District

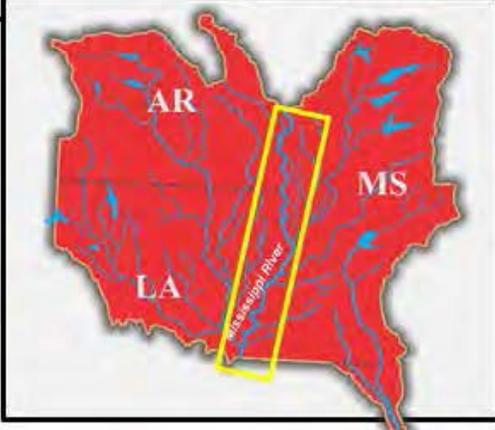
**MISSISSIPPI RIVER CHANNEL IMPROVEMENT**  
Arkansas, Louisiana, and Mississippi  
**MISSISSIPPI RIVER AND TRIBUTARIES, Maintenance (FRM)**



Vicinity Map



Vicksburg District Location





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Channel Improvement, Revetment and Dikes, AR, LA, & MS

FCA 1928, Sec 1; 1936, Sec 1; 1938, Sec 4; 1941, Sec 3; 1944, Sec 10; 1962, Sec 203; 1965, Sec 201, 204; 1966, Sec 202, 203; and 1970, Sec 207

### Mississippi River and Tributaries, Maintenance (FRM, NAV)

**Location:** The project is located in the Mississippi River and along its banks from the vicinity of Cessions Towhead at River Mile 616 AHP to Union Point at River Mile 326 AHP, a distance of approximately 290 miles.

**Description:** The plan of improvement consists of stabilization of the Mississippi River main channel in a desirable alignment for purposes of flood control and navigation by means of maintaining existing revetments and river training structures (dikes, chevrons, and bendway weirs). These projects prevent erosion that would threaten the integrity of the mainline levees and provide for a safe and efficient Navigation channel.

**Issues:** The Mississippi River revetments and river training structures have sustained damage, primarily due to age and impacts from high water events that require various levels of repair. A backlog of revetment and river training structure maintenance has developed that the current level of funding cannot adequately address.

**Importance:** Revetment and river training structure maintenance insures that desirable channel alignment can continue to be provided and the mainline levee can be protected from channel migration due to bank line erosion as revetments fail.

**Risk:** Catastrophic damage to the existing revetments, river training structures, river banks, channel alignment, and adjacent mainline levee is likely to occur if the system is not maintained as constructed.

**Consequence:** Failure to adequately fund will result in channel deterioration and continued damage to and/or failure of existing revetments and river training structures, adversely impacting channel alignment and safety and threatening the integrity of the mainline levee system. Delaying repairs to existing revetments and river training structures typically leads to additional damage resulting in a higher level of risk and consequences and increased repair costs.

**Activities for FY 20:** Funds in the amount of \$14,600,000 are being used to award stone repair contracts, planning engineering, and design of ACM revetments and repairs to existing dikes.



**Revetment – Articulated Concrete Mat**

**Acquisition Strategy:** NA

**Amount That Will Be Used in FY 21:** Funds in the amount of \$18,500,000 will be used for dike maintenance stone repairs and articulated concrete mattress revetments. Additional funds in the amount of \$41,203,000 could be used for articulated concrete mattress revetments (\$7,600,000), award contract for stone repairs to existing structures (\$2,000,000), dike repairs (\$4,500,000), and revetment repairs (\$27,103,000).

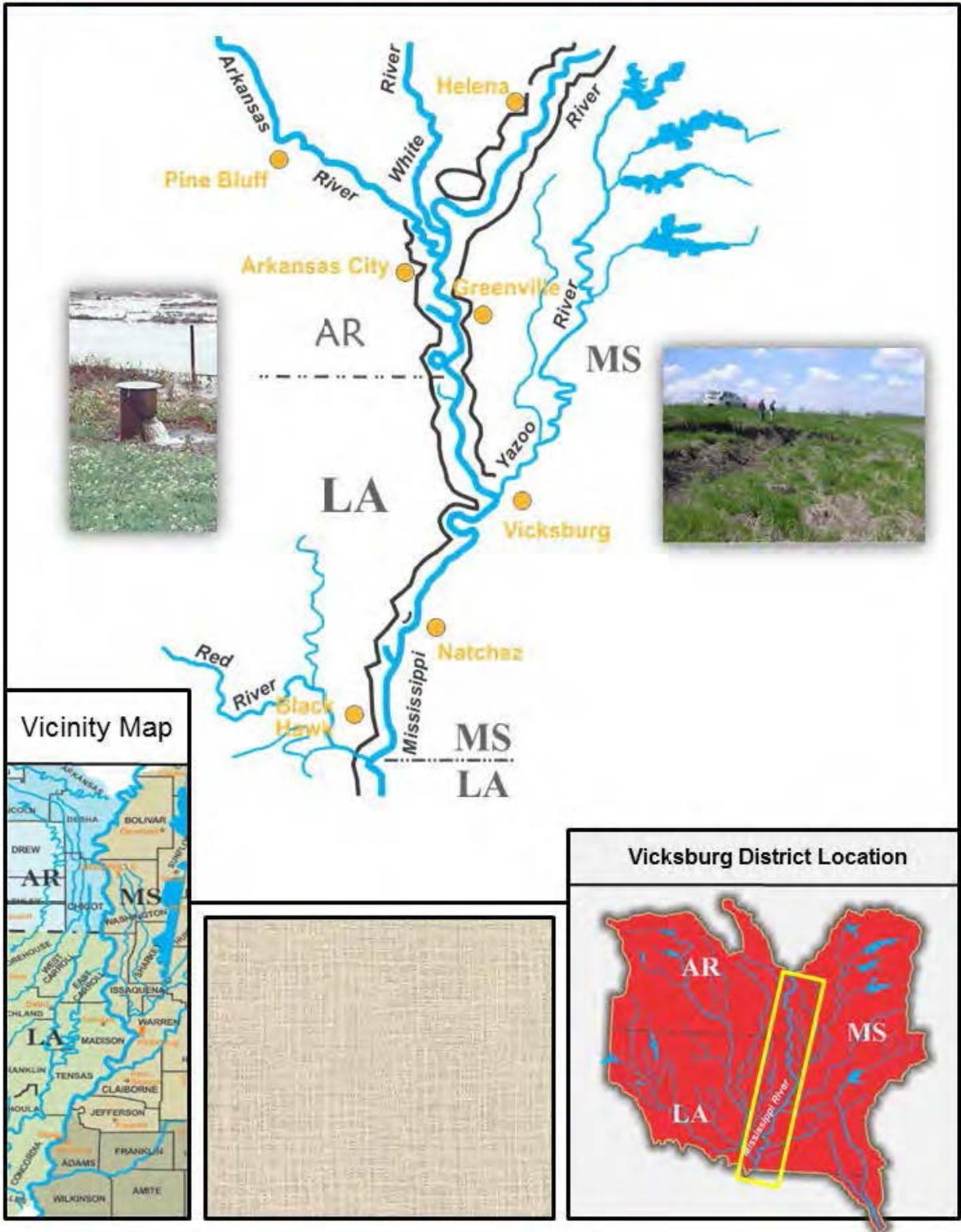
**Project Sponsor/Customer:** Mississippi Levee Board, Fifth Louisiana Levee Board, and Southeast Arkansas Levee Board

**Congressional Interest:** Senate: Boozman and Cotton (AR), Kennedy and Cassidy (LA), Hyde-Smith and Wicker (MS), House: Crawford (AR-1), Westerman (AR-4), Scalise (LA-01), Abraham (LA-5), Johnson (LA-04), Thompson (MS-2), and Guest (MS-3)

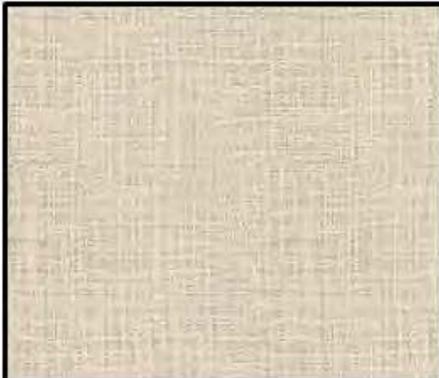


**River Training Structures - Stone Dike Maintenance**

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$14,600,000	18,500,000	\$59,703,000



Vicinity Map



Vicksburg District Location





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Mississippi River Levees, AR, LA & MS

FCA's 1928, 1936; 1938, 1941, 1944, 1946, 1950, 1954, 1962, 1965, 1968, River Basin  
Monetary Authorization Act of 1971, WRDA 92, WRDA 00

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The Mississippi River Levee system on the west bank extends from Allenville, Missouri, southward to Venice, Louisiana, and on the east bank from Hickman, Kentucky, to opposite Venice, Louisiana, except where interrupted by hills and tributary streams.

**Description:** The Mississippi River Levee System provides flood risk reduction to over 23,000 square miles in the alluvial valley subject to flooding by the project flood. The alluvial valley is over 650 miles long and varies in width from 20 to 90 miles. Numerous railroads, highways, and airfields connecting the major transportation centers lie within the protected area as do several major transcontinental communication routes. In addition to highly developed agricultural areas, the levees provide protection to urban areas and many industries. The Vicksburg District is responsible for major maintenance on approximately 445 miles of the MRL system, including 1,327 relief wells.

**Issues:** Levee slides occur annually along the Mississippi River levee system on the East and West bank as a result of normal river fluctuations. Subsequent dry weather results in cracking of the levee surface and when rains soak the levee, a superficial slide occurs that requires repair to prevent further deterioration of the levee.

**Importance:** Although levee slides are an expected occurrence in any levee system, the repair of levee slides is of prime importance in maintaining a robust levee system capable of performing its design function during all flood events up to and including the project design flood.

**Risk:** The levee system protects 233,122 people and 110,450 structures and other infrastructure valued at \$20,915,961,000 within the states of Arkansas and Louisiana and protects 174,762 people and 74,445 structures and other infrastructure valued at \$13,391,145,000 within the state of Mississippi.

**Consequence:** Failure to operate and maintain the levees appropriately jeopardizes project integrity, and places the safety of the public at increased risk.



Typical MRL Levee Slide

**Activities for FY 20:** Funds in the amount of \$7,673,000 are being used for periodic inspections, operation and maintenance for flood risk management, slide repairs, relief well rehabilitation, and data collection.

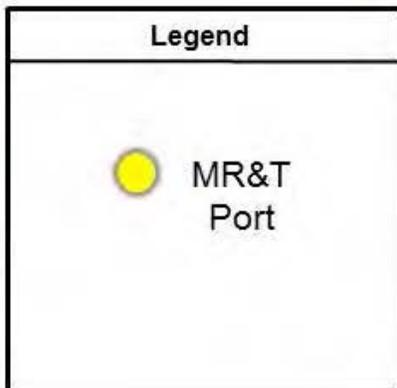
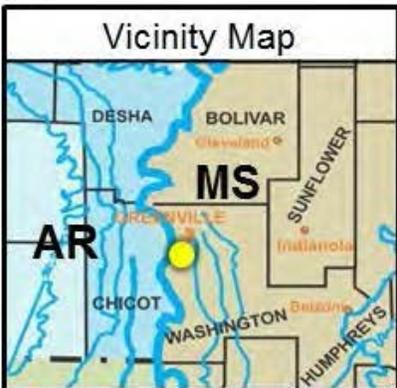
**Acquisition Strategy:** The levee surfacing material will be purchased through an existing IDIQ contract.

**Amount That Will Be Used in FY 21** Funds in the amount of \$3,713,000 will be used for data collection, inspections, relief well rehabilitation, and major maintenance of the project. Additional funds in the amount of \$1,914,000 could be used for maintenance for flood risk management (\$872,000), levee surfacing (\$812,000) and mitigation features (\$230,000).

**Project Sponsor/Customer:** Fifth Louisiana Levee District, Southeast Arkansas Levee District, and the Board of Mississippi Levee Commissioners

**Congressional Interest:** Senate: Boozman and Cotton (AR), Cassidy and Kennedy (LA), Hyde-Smith and Wicker (MS); House: Crawford (AR-1), Westerman (AR-4); Scalise (LA-1), Johnson (LA-4), Abraham (LA-5), Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$7,673,000	\$3,713,000	\$5,627,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet Greenville Harbor, MS

Flood Control Act (FCA) of 1928, as amended by FCAs 1946, 1954, and WRDA 1986

## Mississippi River and Tributaries, Maintenance (NAV)

**Location:** The Greenville Harbor, located at Greenville, Mississippi, provides access to the Mississippi River by way of a 250-foot-wide by 9-foot-deep channel. The harbor is located in an old bendway of the Mississippi River on Lake Ferguson, just southwest of the city of Greenville.

**Description:** The harbor and turning basin are 500 feet wide and 10,000 feet long, with a maintained depth of 9 feet at the lowest river stages. The harbor is connected to the Mississippi River by a channel 250 feet wide with a maintained depth of 9 feet at the lowest river stages. The project's purpose is to provide local businesses, industries and vessels navigating the Mississippi River access to the harbor facilities at Greenville.

**Issues:** Without maintenance dredging funds, this harbor will lose project dimensions during the busiest time of the year when crops are harvested and shipped via various ports and harbors along the Mississippi River.

**Importance:** This harbor provides a means for farmers, as well as other industries, in a large area of the Mississippi Delta a less costly means to ship commodities.

**Risk:** The loss of a dependable, reliable, and safe harbor will have significant adverse impacts on the region due to the increased shipping costs by rail and trucks.

**Consequence:** The many small communities and farmers served by this harbor will be forced to seek other, more costly means to move their products. Also, approximately 650 jobs could be lost, with an annual payroll of \$26 million.

**Activities for FY 20:** Funds in the amount of \$930,000 are being used for harbor surveys and dredging.



**Greenville Harbor**

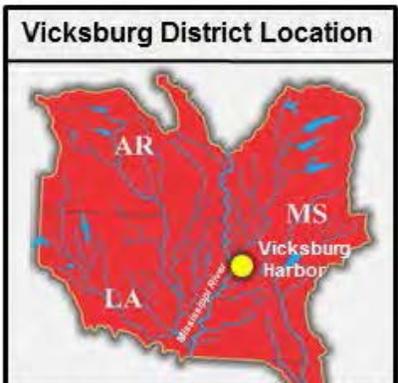
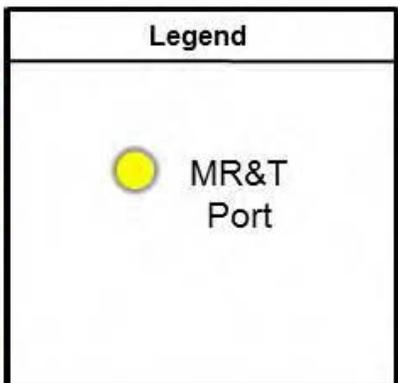
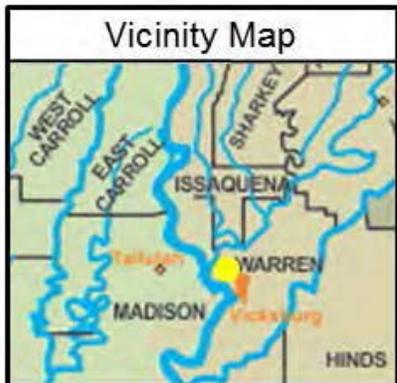
**Acquisition Strategy:** NA

**Amount That Could Be Used in FY 21:** Funds in the amount of \$930,000 will be used for maintenance dredging and studies and surveys for navigation. Additional funds in the amount of \$300,000 could be used for additional dredging.

**Project Sponsor/Customer:** Greenville Port Commission

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$930,000	\$930,000	\$1,230,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet Vicksburg Harbor, MS

Flood Control Act (FCA) of 1928, as amended by FCAs 1946, 1954, and WRDA 1986

## Mississippi River and Tributaries, Maintenance (NAV)

**Location:** The Vicksburg Harbor is located in west-central Mississippi at Vicksburg, MS, with access to the Mississippi River by way of the Yazoo River Diversion Canal.

**Description:** The harbor channel is 500 feet wide and 12,000 feet long with a 500-foot-wide, 15,000-foot-long channel on the Yazoo River Diversion Canal from the Mississippi River to the harbor entrance. The Upper Harbor channel is 150 feet wide. A minimum depth of 9 feet at the lowest Mississippi River stage is maintained. The project's purpose is to provide local businesses, industries and vessels navigating the Mississippi River access to the harbor facilities at Vicksburg. Riverside development within the project area has occurred along the east banks of the Mississippi River and the Yazoo Diversion Canal and extends upstream from the vicinity of Interstate 20 Highway Bridge for a distance of approximately 8 miles.

**Issues:** Local commerce and vessels navigating the Mississippi River use the harbor facilities at Vicksburg. The US Coast Guard Cutter Kickapoo and the Vicksburg District's Dredge MV *Jadwin* and Mat Sinking Unit are moored at the Vicksburg Harbor as well.

Without maintenance dredging funds, this harbor will lose project dimensions during the busiest time of the year when crops are harvested and shipped via various ports and harbors along the Mississippi River.

**Importance:** This harbor serves as a shipping point for a wide range of industries and is a major contributor to the local economy.

**Risk:** The loss of a dependable, reliable, and safe harbor will have significant adverse impacts on the region due to the increased shipping costs by rail and trucks.

**Consequence:** The many small communities and farmers served by this harbor will be forced to seek other, more costly means to move their products. Approximately 2,000 jobs could be affected with an annual payroll of \$80 million. The economic impact to the area is approximately \$564.8 million.



**Vicksburg Harbor**

**Activities for FY 20:** Funds in the amount of \$942,000 are being used for ERGO management for navigation, maintenance dredging, and studies and surveys.

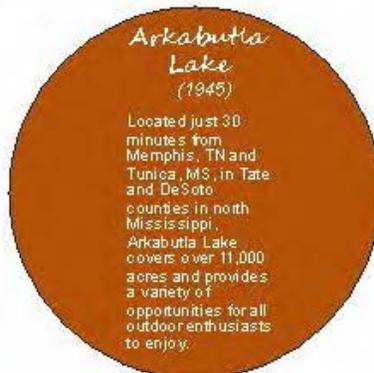
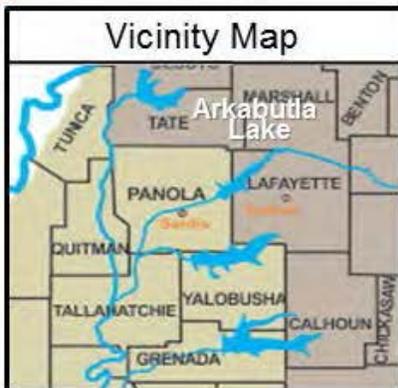
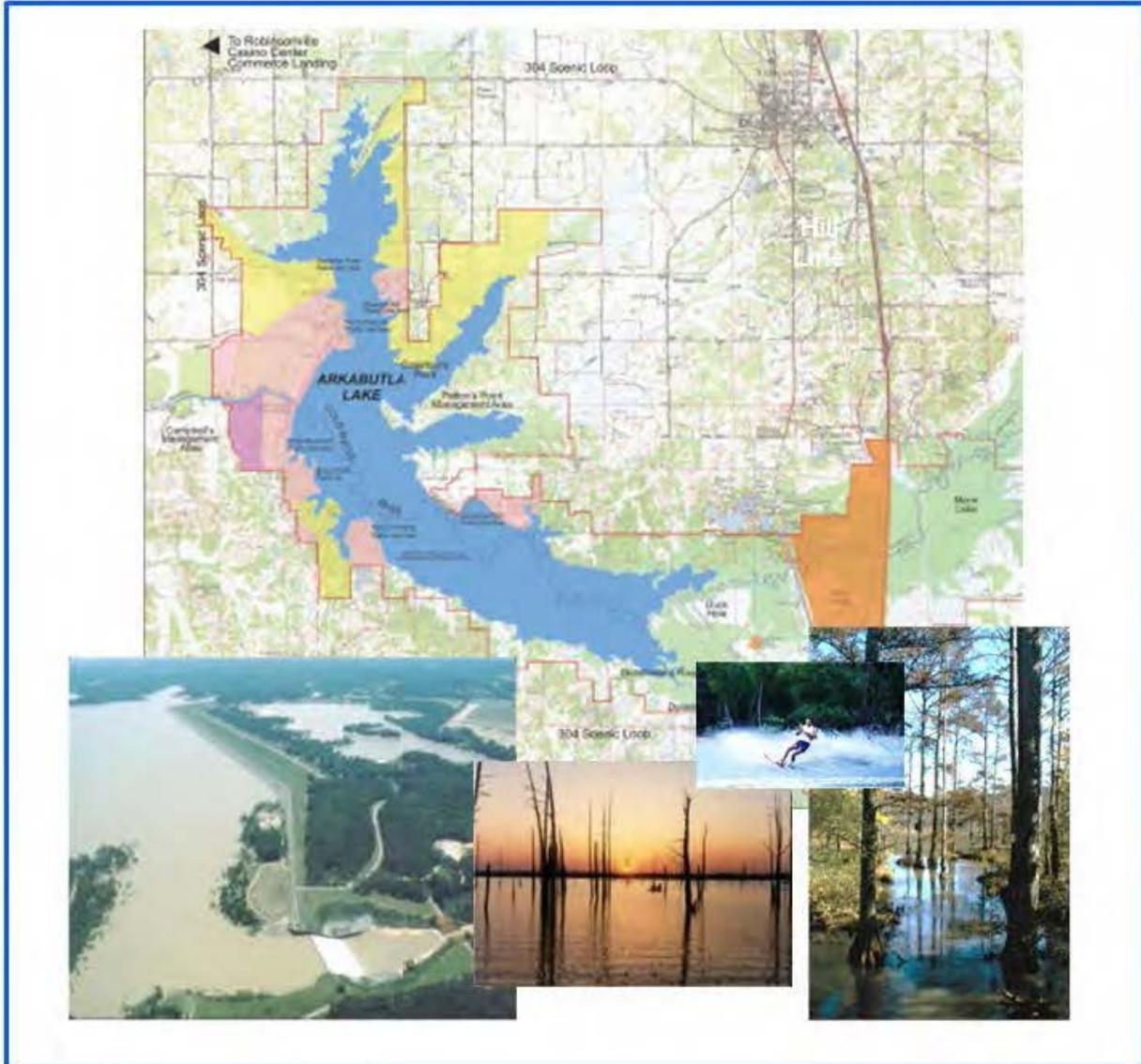
**Acquisition Strategy:** NA

**Amount That Will Be Used in FY 21:** Funds in the amount of \$940,000 will be used for surveys and maintenance dredging. Additional funds in the amount of \$300,000 could be used for additional dredging.

**Project Sponsor/Customer:** Vicksburg/Warren County Port Commission

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$942,000	\$940,000	\$1,240,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Arkabutla Lake, MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, and 1946

### Mississippi River and Tributaries, Maintenance, (FRM, REC, ENS)

**Location:** Arkabutla Lake is located in northwest Mississippi, north of Arkabutla, Mississippi. Arkabutla Dam is located in Tate and DeSoto Counties, and the lake encompasses portions of both counties.

**Description:** Arkabutla Lake is a 57,250-acre multi-purpose project located on the Coldwater River and stores floodwater to provide for flood damage reduction in the Yazoo Basin. Outdoor recreation and tourism associated with the lake contribute significant support to the regional economy.

**Issues:** Due to the age of this project, continued emphasis on critical routine and non-routine maintenance activities is required to ensure the integrity of the project and its flood control structures, in order to protect people and property from downstream flooding.

**Importance:** Arkabutla Dam, completed in 1943 as a part of the comprehensive flood control plan for the Mississippi River and Tributaries Project, is operated in coordination with Sardis, Enid, and Grenada Dams to reduce flood damages in the Yazoo Basin of the Mississippi Delta, one of the most significant agricultural production areas in the Nation. Through FY 15, these four projects have prevented over \$1.3 billion in flood damages within the Yazoo Basin. Following construction of Arkabutla Dam, land-and water-based recreation became a popular pastime for project visitors. In FY 16, over 783,704 visitors utilized the project and its 13 developed recreation areas operated by the Corps. With multiplier effects, visitor spending resulted in \$20.6 million total sales, \$7.6 million in total personal income, and supported 237 jobs in the local communities. Environmental stewardship activities are conducted to protect and enhance the project’s vegetative, wildlife, fisheries, and cultural resources.

**Risk:** Failure to adequately fund this project jeopardizes the flood risk management capabilities for which the project was designed and has performed in an excellent manner for over 70 years. Funding is required to adequately operate and maintain project recreational facilities and continue mandated environmental stewardship activities.

**Consequence:** Failure to adequately operate and maintain the project and its facilities would jeopardize project integrity and potentially lead to an increase in the risk of damages from flooding. Reductions in recreational service levels will



**Arkabutla Dam**

potentially lead to reduced facility availability, decreased public safety, and lower levels of recreational visitor satisfaction. Reduction in environmental stewardship services may result in inability to monitor and control such things as cultural resource sites, endangered species, invasive species, and forestry resources.

**Activities for FY 20:** Funds in the amount of \$7,186,000 are being used for conduit plans and specifications, operation and maintenance for flood risk management, maintenance of recreation facilities, repairs, environmental stewardship, surveys, and wildlife and habitat management.

**Acquisition Strategy:** NA

**Amount That Will Be Used in FY 21:** Funds in the amount of \$5,326,000 will be used for cultural resources monitoring, operation and maintenance for flood risk management, environmental stewardship, wildlife habitat management, and data gathering. Additional funds in the amount of \$13,683,500 could be used for operation and maintenance for flood risk management (\$6,570,000), operation and maintenance of recreation (\$6,463,000) and environmental stewardship (\$650,500).

**Project Sponsor:** NA

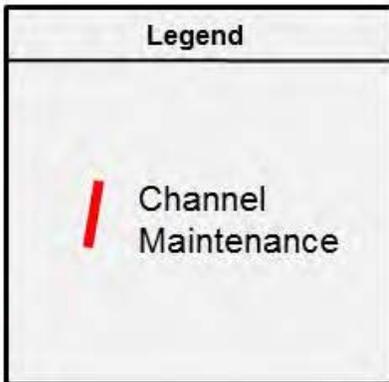
**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Kelly (MS-1)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$7,186,000	\$5,326,000	\$19,009,500



US Army Corps  
of Engineers  
Vicksburg District

**YAZOO BASIN, BIG SUNFLOWER RIVER (Including Bogue Phalia)**  
**Mississippi**  
**MISSISSIPPI RIVER AND TRIBUTARIES, Maintenance (FRM)**





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Big Sunflower River (Including Bogue Phalia), MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, 1946, 1962 and 1965

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The Big Sunflower River Basin comprises an area of approximately 4,200 square miles in northwest Mississippi.

**Description:** The project was designed to provide flood protection via improvements to drainage channels that channel storm water runoff in the west central Yazoo Basin areas west of Highway 61 in the vicinity of Greenville, Mississippi.

**Issues:** The existing flood control project is not currently functioning as originally constructed due to the loss of channel design capacity both from vegetative growth and sediment accumulation. The current project will restore the channels to original design capacities. Critical work is needed to ensure the integrity of the project to protect people and property from flooding. This work consists of repairs to weirs constructed in the Bogue Phalia to maintain vegetation control and regulate storm water runoff.

**Importance:** The purpose of the remaining work in this project is to provide channel improvement that will reduce the flooding in Greenville from Main Canal and will protect 195,000 acres against the design flood and substantially benefit an additional 395,000 acres. Project mitigation for terrestrial and wetland losses will require acquisition of approximately 5,250 cleared acres of frequently flooded agricultural lands for reformulation.

**Risk:** Leaving the project in disrepair may lead to flooding issues and reduced levels of flood protection in the project area.

**Consequence:** Failure to operate and maintain the project would jeopardize the project integrity and benefits.



**Big Sunflower River**

**Activities for FY 20:** Funds in the amount of \$188,000 are being used for mitigation activities, and operation and maintenance for flood risk management.

**Acquisition Strategy:** Existing O&M Contract.

**Amount That Will Be Used in FY 21:** Funds in the amount of \$146,000 will be used for routine operation, maintenance, data collection, and data analysis. Additional funds in the amount of \$153,000 could be used for routine operation and maintenance.

**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$188,000	\$146,000	\$299,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Enid Lake, MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, and 1946

### Mississippi River and Tributaries, Maintenance (FRM, REC, ENS)

**Location:** Enid Lake is located in north-central Mississippi southeast of Batesville, Mississippi. Enid Dam is located in Yalobusha County, and the lake encompasses portions of Panola, Yalobusha, and Lafayette Counties.

**Description:** Enid Lake is a 44,036-acre multi-purpose project located on the Yocona River and stores floodwater to provide for flood damage reduction in the Yazoo Basin. Outdoor recreation and tourism associated with the lake contribute significant support to the regional economy.

**Issues:** Due to the age of this project, continued emphasis on critical routine and non-routine maintenance activities is required to ensure the integrity of the project and its flood control structures, in order to protect people and property from downstream flooding.

**Importance:** Enid Dam, completed in 1952 as a part of the comprehensive flood control plan for the Mississippi River and Tributaries Project, is operated in coordination with Arkabutla, Grenada, and Sardis Dams to reduce flood damages in the Yazoo Basin of the Mississippi Delta, one of the most significant agricultural production areas in the Nation. Through FY 15, these four projects have prevented over \$1.3 billion in flood damages within the Yazoo Basin. Following construction of Enid Dam, land-and water-based recreation became a popular pastime for project visitors. In FY 16, over 595,551 visitors utilized the project and its 15 developed recreation areas operated by the Corps. With multiplier effects visitor spending resulted in \$11.5 million total sales, \$4.2 million in total personal income, and supported 168 jobs in the local communities. Environmental stewardship activities are conducted to protect and enhance the project’s vegetative, wildlife, fisheries, and cultural resources.

**Risk:** Failure to adequately fund this project jeopardizes the flood risk management capabilities for which the project was designed and has performed in an excellent manner for over 61 years. Funding is required to adequately operate and maintain project recreational facilities and continue mandated environmental stewardship activities.

**Consequence:** Failure to adequately operate and maintain the project and its facilities would jeopardize project integrity and potentially lead to an increase in the risk of damages from flooding. Reductions in recreational service levels will



**Enid Dam**

potentially lead to reduced facility availability, decreased public safety, and lower levels of recreational visitor satisfaction. Reduction in environmental stewardship services may result in inability to monitor and control such things as cultural resource sites, endangered species, invasive species, and forestry resources.

**Activities for FY 20:** Funds in the amount of \$5,318,000 are being used for maintenance for flood risk management, forest management, environmental stewardship, data collection and surveys, operation for recreation, and wildlife habitat management.

**Acquisition Strategy:** NA

**Amount That Will Be Used in FY 21:** Funds in the amount of \$5,113,000 will be used for cultural resources monitoring, operating and maintenance for flood risk management, wildlife habitat management, and operation for recreation. Additional funds in the amount of \$6,520,000 could be used to continue operation and maintenance at a reduced level of service in all authorized mission areas (\$1,975,000), replace surface drain inlets and piping (\$1,900,000) and all other activities (\$2,645,000).

**Project Sponsor:** NA

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2), Kelly (MS-1)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$5,318,000	\$5,113,000	\$11,633,000



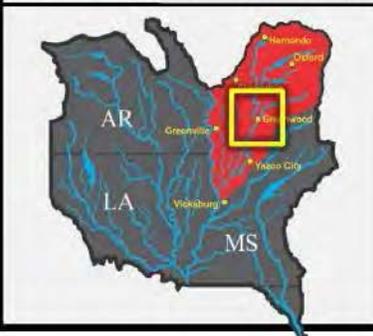
Vicinity Map



Legend



Vicksburg District Location





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Greenwood, MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, and 1946

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The project is located in the Yazoo Basin, Mississippi.

**Description:** The project is located in the Yazoo Basin of Mississippi, and includes the operation and maintenance (O&M) of the Greenwood Protection Works and 55 miles of levees, 14 miles of channels, two miles of ditch, 59 drainage structures, four pumping plants, and 7 weirs. It ensures the protection of the City of Greenwood from flooding by the Yazoo, Tallahatchie and Yalobusha Rivers.

**Issues:** Critical work is needed to ensure the integrity of the project to protect people and property from flooding. This work consists of providing adequate levels of funding for the removal of vegetation, encroachments and utility penetrations of the levees in the Greenwood Protection Works and to operate the drainage structures and pump stations on an as needed basis.

**Importance:** Greenwood is a major center of transportation and commerce for the portion of the State of Mississippi known as the Mississippi Delta. The project protects the city of Greenwood from flooding by the Tallahatchie, Yalobusha and Yazoo Rivers.

**Risk:** Greenwood East Levee protects 20,809 people, 8,134 structures and other infrastructure valued at \$173,388,249. Greenwood West Levee protects 5,434 people, 2,963 structures, and other infrastructure valued at \$69,015,611.

**Consequence:** Failure to operate and maintain the project would jeopardize the project integrity and benefits.

**Activities for FY 20:** Funds in the amount of \$751,000 are being used for data gathering, levee safety, operation for flood risk management, and periodic inspections.



**Greenwood Levee**

**Acquisition Strategy:** Existing O&M Contract.

**Amount That Will Be Used in FY 21:** Funds in the amount of \$980,000 will be used for routine operation and maintenance, data gathering and periodic inspections, and critical work needed to ensure the integrity of the project to protect people and property from flooding. Additional funds in the amount of \$3,150,000 could be used for pipe replacement for the Greenwood West and East levee systems (\$4,000,000) and for routine operation and maintenance, data gathering and periodic inspections, and critical work needed to ensure the integrity of the project to protect people and property from flooding (\$150,000).

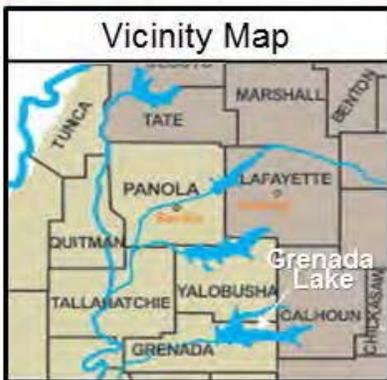
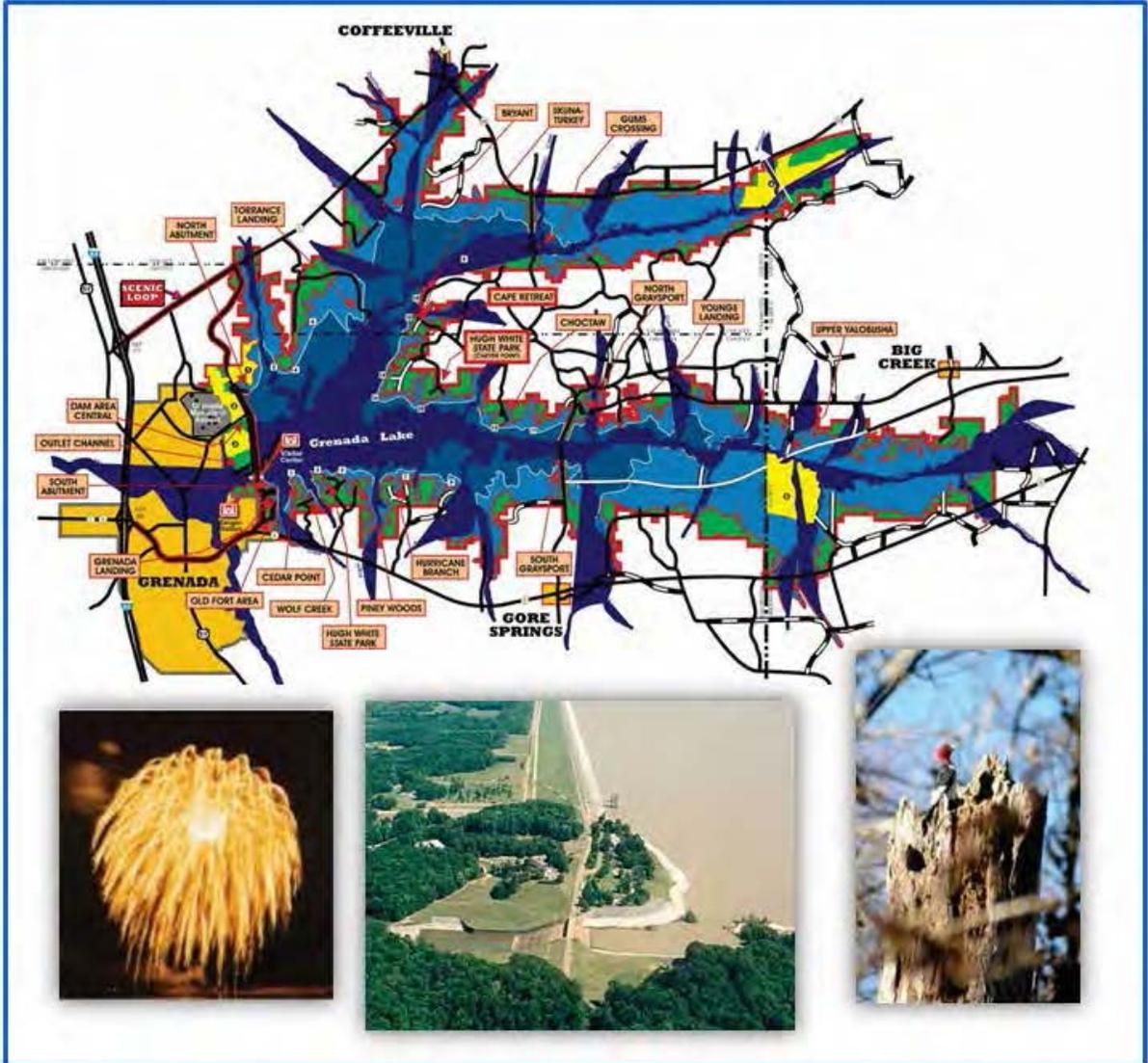
**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$751,000	\$980,000	\$4,130,000

**YAZOO BASIN, MS, GRENADA LAKE**  
**Mississippi**

MISSISSIPPI RIVER AND TRIBUTARIES, Maintenance (FRM, REC, ENS)



*Grenada Lake*

Located in the gently rolling hills of pine and hardwood at the entrance to the Mississippi Delta, the lake covers 36,000 acres and offers some of the best fishing opportunities in the southeastern United States, and most any kind of water activity imaginable.





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Grenada Lake, MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, and 1946

### Mississippi River and Tributaries, Maintenance (FRM, REC, ENS)

**Location:** Grenada Lake is located in north-central Mississippi northeast of Grenada, Mississippi. Grenada Dam is located in Grenada County, and the lake encompasses portions of Grenada, Yalobusha, and Calhoun Counties.

**Description:** Grenada Lake is a 90,379-acre multi-purpose project located on the Yalobusha River and stores floodwater to provide for flood damage reduction in the Yazoo Basin. Outdoor recreation and tourism associated with the lake contribute significant support to the regional economy.

**Issues:** Due to the age of this project, continued emphasis on critical routine and non-routine maintenance activities is required to ensure the integrity of the project and its flood control structures, in order to protect people and property from downstream flooding.

**Importance:** Grenada Dam, completed in 1954 as a part of the comprehensive flood control plan for the Mississippi River and Tributaries Project, is operated in coordination with Arkabutla, Enid, and Sardis Dams to reduce flood damages in the Yazoo Basin of the Mississippi Delta, one of the most significant agricultural production areas in the Nation. Through FY 15, these four projects have prevented over \$1.3 billion in flood damages within the Yazoo Basin. Following construction of Grenada Dam, land-and water-based recreation became a popular pastime for project visitors. In FY 16, over 966,282 visitors utilized the project and its 26 developed recreation areas operated by the Corps. With multiplier effects, visitor spending resulted in \$20.1 million total sales, \$ 7.1 million in total personal income, and supported 290 jobs in the local communities. Environmental stewardship activities are conducted to protect and enhance the project’s vegetative, wildlife, fisheries, and cultural resources.

**Risk:** Failure to adequately fund this project jeopardizes the flood risk management capabilities for which the project was designed and has performed in an excellent manner for over 59 years. Funding is required to adequately operate and maintain project recreational facilities and continue mandated environmental stewardship activities.

**Consequence:** Failure to adequately operate and maintain the project and its facilities would jeopardize project integrity and potentially lead to an increase in the risk of damages from flooding. Reductions in recreational service levels will potentially lead to reduced facility availability, decreased public safety, and lower levels of recreational visitor satisfaction. Reduction in environmental stewardship services may result in inability to monitor and control such things as cultural resource sites, endangered species, invasive species, and forestry resources, recreational visitor satisfaction. Reduction in environmental stewardship services may result in inability to monitor and control such things as cultural resource sites, endangered species, invasive species, and forestry resources.



**Grenada Dam**

**Activities for FY 20:** Funds in the amount of \$6,151,000 are being used for operation for design and repair of gabion baskets, operation for recreation, wildlife management, cultural resources monitoring, data collection, forest management, environmental stewardship, and operation and maintenance for flood risk management.

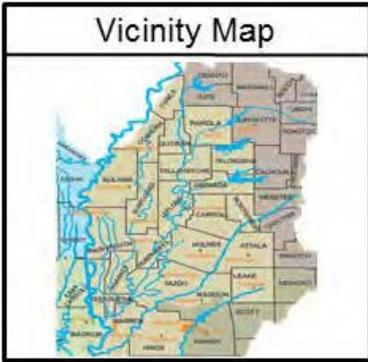
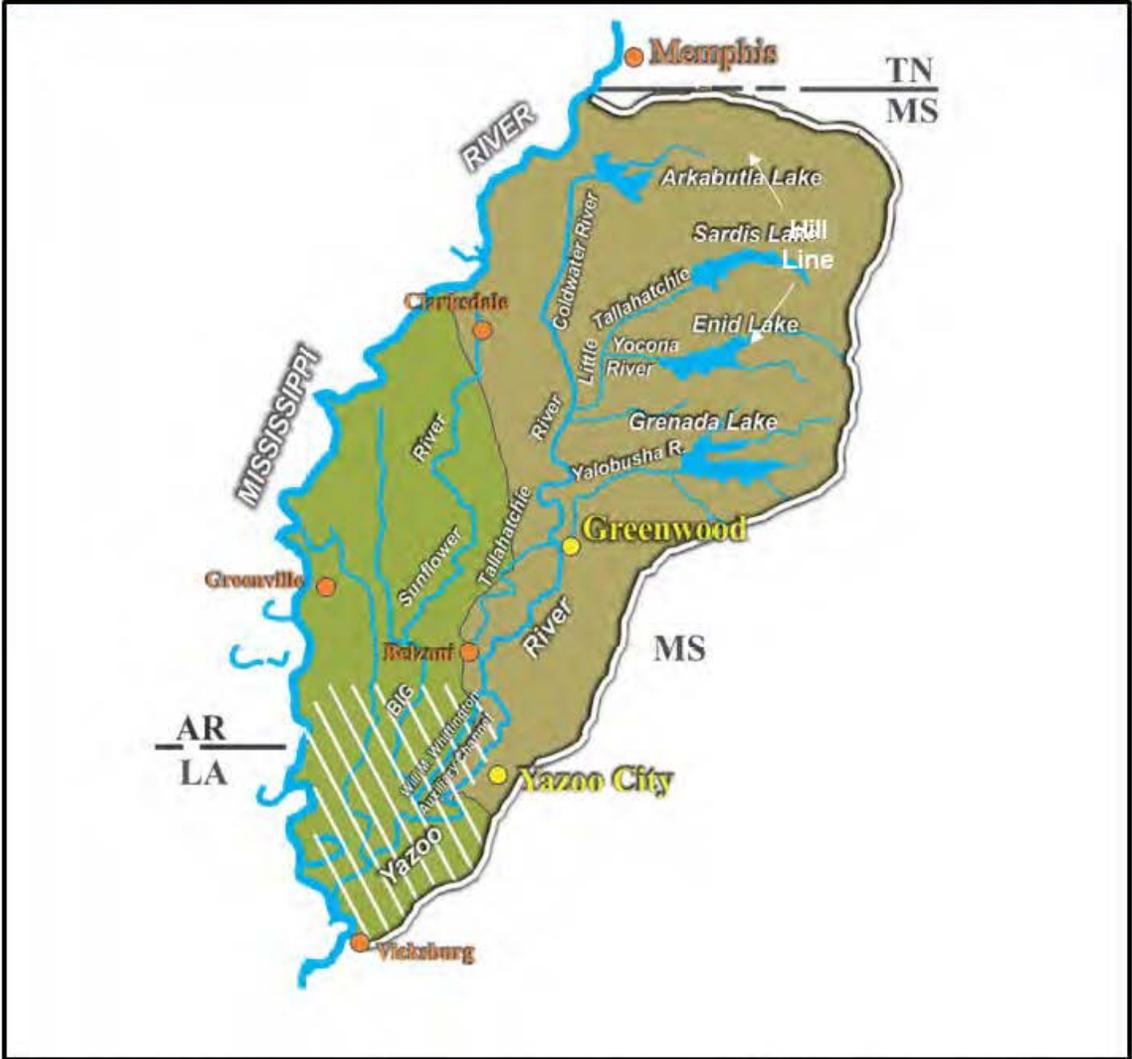
**Acquisition Strategy:** NA

**Amount That Will Be Used in FY 21:** Funds in the amount of \$5,326,000 will be used to continue operation and maintenance of recreational features, flood risk management, and data collection. Additional funds in the amount of \$9,935,000 could be used to continue operation and maintenance of recreational features (\$3,265,000), flood risk management (\$6,120,000), and data collection (\$550,000).

**Project Sponsor:** NA

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Kelly (MS-1)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$6,151,000	\$5,326,000	\$15,261,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Main Stem, MS

Flood Control Acts of 1941, 1944, and 1965

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The project is located in the Yazoo Basin, Mississippi.

**Description:** The project includes the operation and maintenance of 136 miles of levees, 287 miles of channels, and 74 drainage structures.

**Issues:** Critical work is needed to ensure the integrity of the project to protect people and property from flooding.

**Importance:** The project provides flood protection to the Yazoo Basin along the Tallahatchie and Coldwater Rivers below the spillway of Arkabutla Dam, and the Yazoo River. Flood damage reduction measures include authorized levees, channels and appurtenant drainage structures.

**Risk:** Leaving the project in disrepair may lead to flooding issues and reduced levels of flood protection in the project area.

**Consequence:** Failure to operate and maintain the project would jeopardize the project integrity and benefits. Plans and specifications are complete for the rehab of this reach of levee to provide flood protection and enable this reach to be recertified.

**Activities Status for FY 20:** Funds in the amount of \$1,695,000 are being used for routine operation and maintenance, periodic inspections, and critical work needed to ensure the integrity of the project to protect people and property from flooding.

**Acquisition Strategy:** Existing O&M Contract and Construction Contracts.



Main Stem Levee Project

**Amount That Will Be Used in FY 21:** Funds in the amount of \$893,000 will be used for routine operation and maintenance, data gathering and periodic inspections, funding of mitigation lands, and critical work needed to ensure the integrity of the project to protect people and property from flooding. Additional funds in the amount of \$1,220,000 could be used for routine operation and maintenance including data gathering and periodic inspections (\$195,000), funding of mitigation lands (\$500,000), and critical work needed to ensure the integrity of the project to protect people and property from flooding (\$525,000).

**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$1,695,000	\$893,000	\$2,113,000

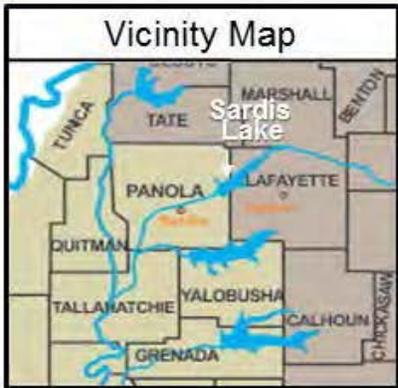
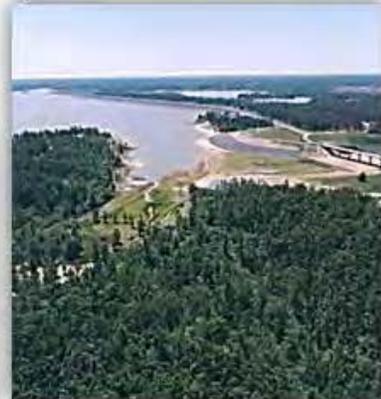
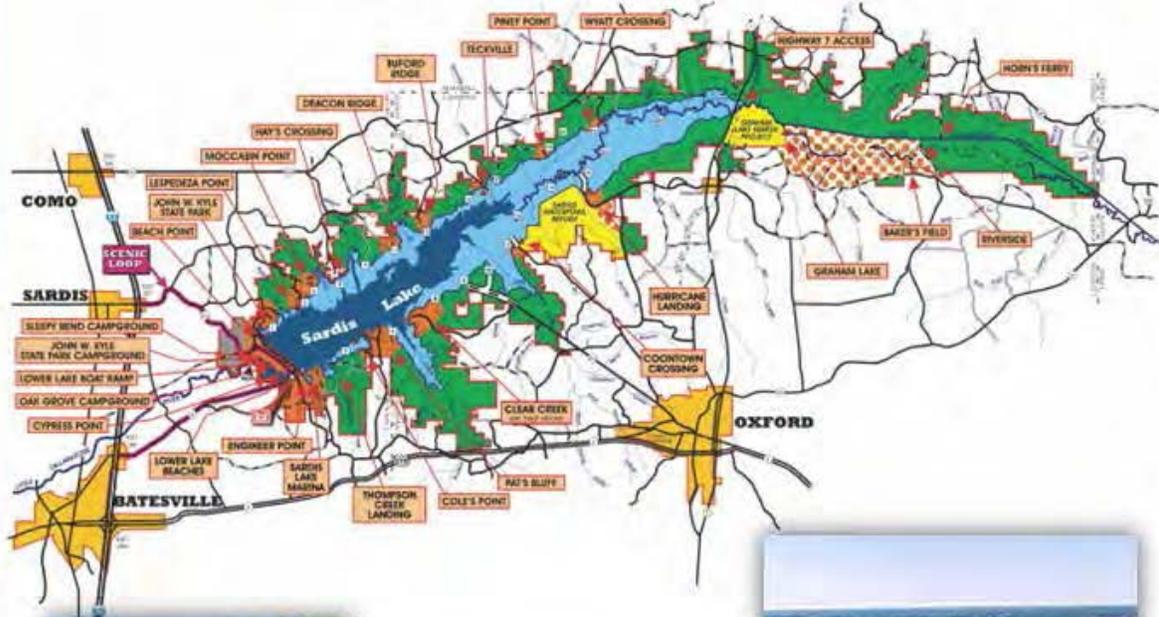


US Army Corps  
of Engineers  
Vicksburg District

## YAZOO BASIN, MS, SARDIS LAKE

### Mississippi

MISSISSIPPI RIVER AND TRIBUTARIES, Maintenance (FRM, REC, ENS)



*Sardis Lake*  
(1992)

Sardis Lake stretches over 98,000 acres thru Panola, Lafayette and Marshall Counties in northwest Mississippi. Located approximately 1 hour from Memphis, TN and 30 minutes from the University of Mississippi, the lake is a popular destination for water-related recreation.





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Sardis Lake, MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, and 1946

### Mississippi River and Tributaries, Maintenance (FRM, REC, ENS)

**Location:** Sardis Lake is located in north-central Mississippi southeast of Sardis, Mississippi. Sardis Dam is located in Panola County, and the lake encompasses portions of Panola, Lafayette, and Marshall Counties.

**Description:** Sardis Lake is a 98,357-acre multi-purpose project located on the Little Tallahatchie River and stores floodwater to provide for flood damage reduction in the Yazoo Basin. Outdoor recreation and tourism associated with the lake contribute significant support to the economy.

**Issues:** Due to the age of this project, continued emphasis on critical routine and non-routine maintenance activities is required to ensure the integrity of the project and its flood control structures, in order to protect people and property from downstream flooding.

**Importance:** Sardis Dam, completed in 1940 as a part of the comprehensive flood control plan for the Mississippi River and Tributaries Project, is operated in coordination with Arkabutla, Enid, and Grenada Dams to reduce flood damages in the Yazoo Basin of the Mississippi Delta, one of the most significant agricultural production areas in the Nation. Through FY 15, these four projects have prevented over \$1.3 billion in flood damages within the Yazoo Basin. Following construction of Sardis Dam, land- and water-based recreation became a popular pastime for project visitors. In FY 16, over 893,253 visitors utilized the project and its 20 developed recreation areas operated by the Corps. With multiplier effects, visitor spending resulted in \$ 24.7 million total sales, \$ 8.3 million in total personal income, and supported 317 jobs in the local communities. Environmental stewardship activities are conducted to protect and enhance the project’s vegetative, wildlife, fisheries, and cultural resources.

**Risk:** Failure to adequately fund this project jeopardizes the flood risk management capabilities for which the project was designed and has performed in an excellent manner for over 70 years. Funding is required to adequately operate and maintain project recreational facilities and continue mandated environmental stewardship activities.

**Consequence:** Failure to adequately operate and maintain the project and its facilities would jeopardize project integrity and potentially lead to an increase in the risk of damages from flooding. Reductions in recreational service levels will potentially lead to reduced facility availability, decreased public safety, and lower levels of recreational visitor satisfaction. Reduction in environmental stewardship services may result in inability to monitor and control such things as cultural resource sites, endangered species, invasive species, and forestry resources.



**Sardis Lake Dam and Lower Lake**

**Activities for FY 20:** Funds in the amount of \$6,116,000 are being used to continue operation and maintenance for flood risk management, cultural resources monitoring, data gathering, forest management, and environmental stewardship.

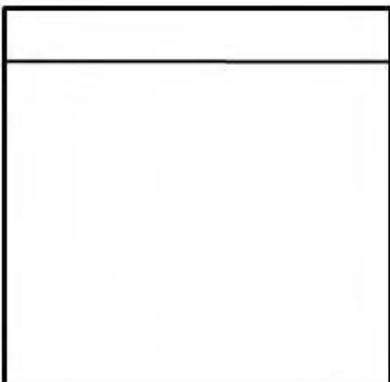
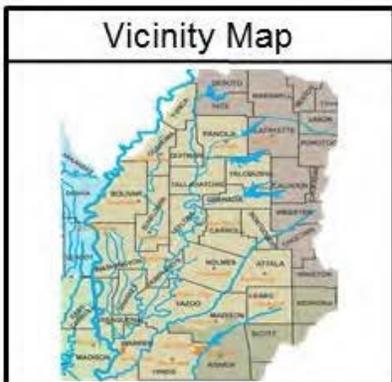
**Acquisition Strategy:** NA

**Amount That Will Be Used in FY 21:** Funds in the amount of \$6,238,000 will be used to continue operation and maintenance of recreational features, inspection surveys, flood risk management, and data collection. Additional funds in the amount of \$9,319,000 could be used to continue operation and maintenance of environmental stewardship (\$373,000), flood risk management (\$3,221,000), and operation and maintenance of recreation features (\$5,725,000).

**Project Sponsor:** NA

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Kelly (MS-1), Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$6,116,000	\$6,238,000	\$15,557,000





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Tributaries, MS

Flood Control Acts of 1941, 1944, and 1965

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The project is located in the Yazoo Basin, Mississippi.

**Description:** The project consists of 8 levee segments, 98.6 miles of levee, 310.4 miles of channel, 16.2 miles of ditch, 26 drainage structures, 4 pumping stations, and 19 weirs.

**Issues:** Critical work is needed to ensure the integrity of the project to protect people and property from flooding. This work consists of providing adequate levels of funding for the removal of vegetation and encroachments and to operate the drainage structures on an as-needed basis.

**Importance:** The project provides flood protection to the Yazoo Basin along the Little Tallahatchie, Yalobusha, and Yocona Rivers from the spillways of Sardis, Enid, and Grenada Dams to the main stem of the Yazoo River and various smaller tributary streams that empty directly into the Yazoo River. Flood damage reduction measures include authorized levees, channels and appurtenant drainage.

**Risk:** The project protects 14,196 people, 7,232 structures, and other infrastructure valued at \$84,171,540.

**Consequence:** Failure to operate and maintain the project would jeopardize the project integrity and benefits.

**Activities for FY 20:** Funds in the amount of \$1,418,000 are being used for levee surfacing, levee inspection, risk assessments, and risk communication, operation and maintenance of flood risk management, and data gathering.



**Tributaries Levee - Ascalmore-Tippo Sta. 335+00 – North Levee**

**Acquisition Strategy:** Existing O&M Contract.

**Amount That Will Be Used in FY 21** Funds in the amount of \$421,000 will be used for routine operation and maintenance, and data gathering. Additional funds in the amount of \$741,000 could be used for maintenance and operation for flood risk management (\$680,000), real estate management (\$35,000), and management of mitigation activities (\$100,000).

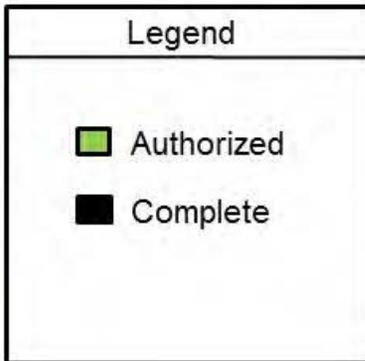
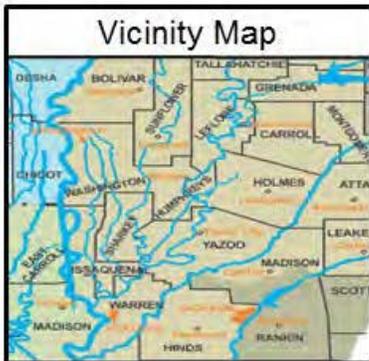
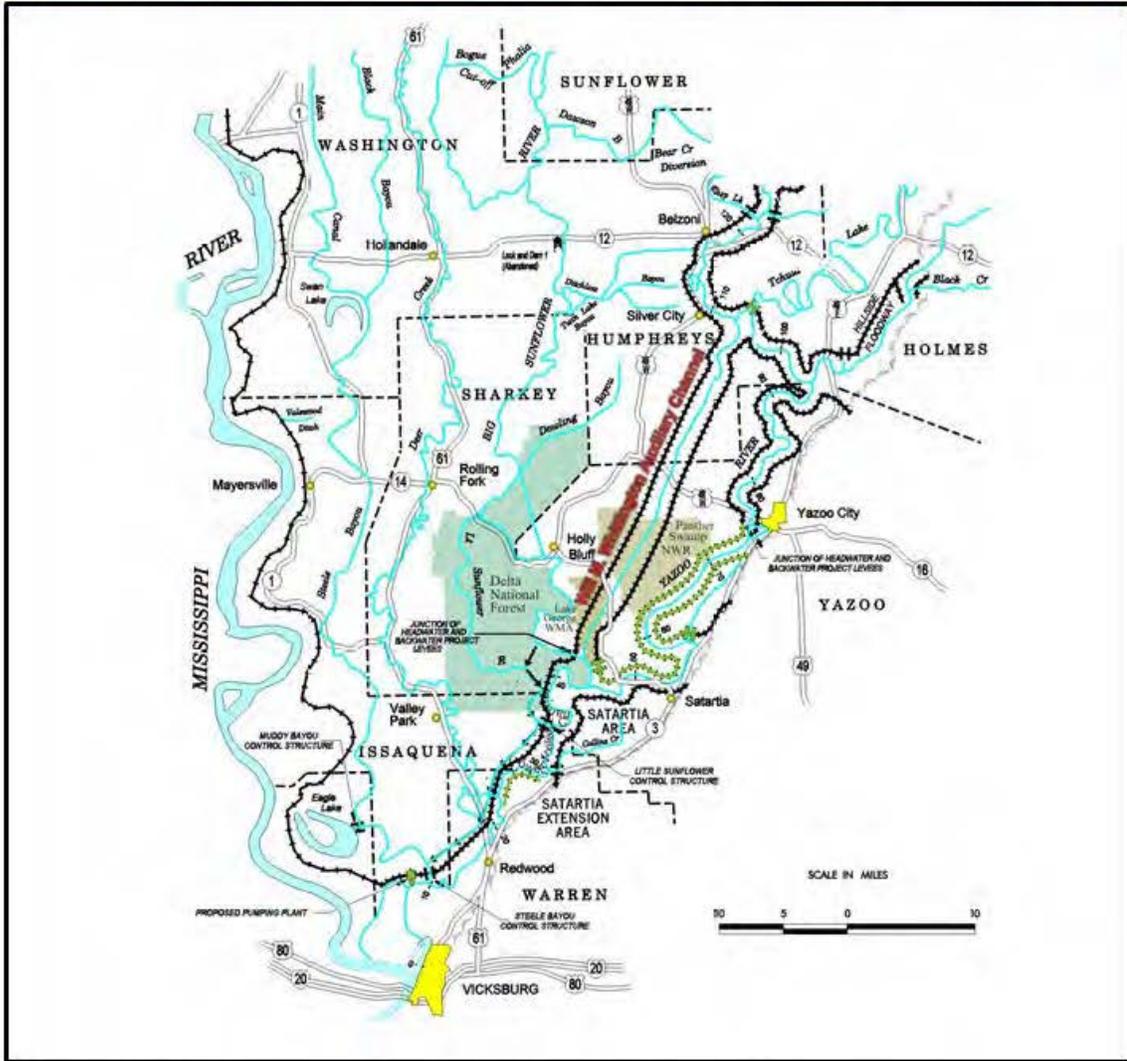
**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$1,418,000	\$421,000	\$1,162,000



**YAZOO BASIN, WILL M. WHITTINGTON AUXILIARY CHANNEL**  
**Mississippi**  
**MISSISSIPPI RIVER AND TRIBUTARIES Maintenance (FRM)**





US Army Corps  
of Engineers  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Will M. Whittington Auxiliary Channel, MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, 1946, 1962 and 1965

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The project is located in west Mississippi in portions of Yazoo and Humphreys Counties and is a part of the Yazoo Basin Headwater Area.

**Description:** The project includes a leveed floodway and landside drainage ditches from the vicinity of Silver City on the Yazoo River to near the mouth of Big Sunflower River.

**Issues:** Critical work is needed to ensure the integrity of the project to protect people and property from flooding. This work consists of providing adequate levels of funding for the removal of vegetation and encroachments and place granular surface material on the levees as needed to provide all-weather access.

**Importance:** This flood control feature in the Yazoo Basin headwater area is a leveed floodway that splits the flows of the Yazoo River and reduces flood stages on the Yazoo River. The levee provides major flood protection to areas between the Will Whittington Levee and the Mississippi River east bank levee.

**Risk:** Leaving the project in disrepair may lead to levee safety issues, levee certification issues and reduced levels of flood protection and higher risks.

**Consequence:** Failure to operate and maintain the project would jeopardize the project integrity and benefits.

**Activities for FY 20:** Funds in the amount of \$380,000 are being used for operation for flood risk management, levee inspections, risk assessments, risk communication, and data management.



Will M. Whittington Levee

**Acquisition Strategy:** Existing O&M contract.

**Amount That Will Be Used in FY 21:** Funds in the amount of \$278,000 will be used for routine operation and maintenance, and data gathering. Additional funds in the amount of \$87,000 could be used for maintenance for flood risk management and real estate management.

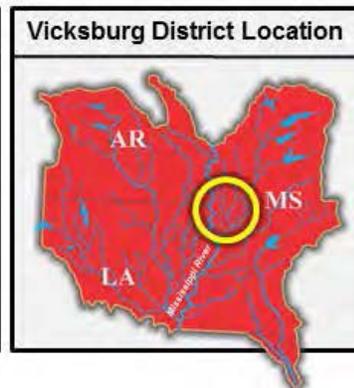
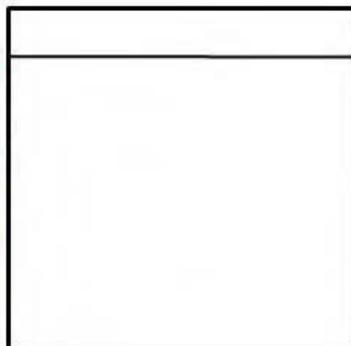
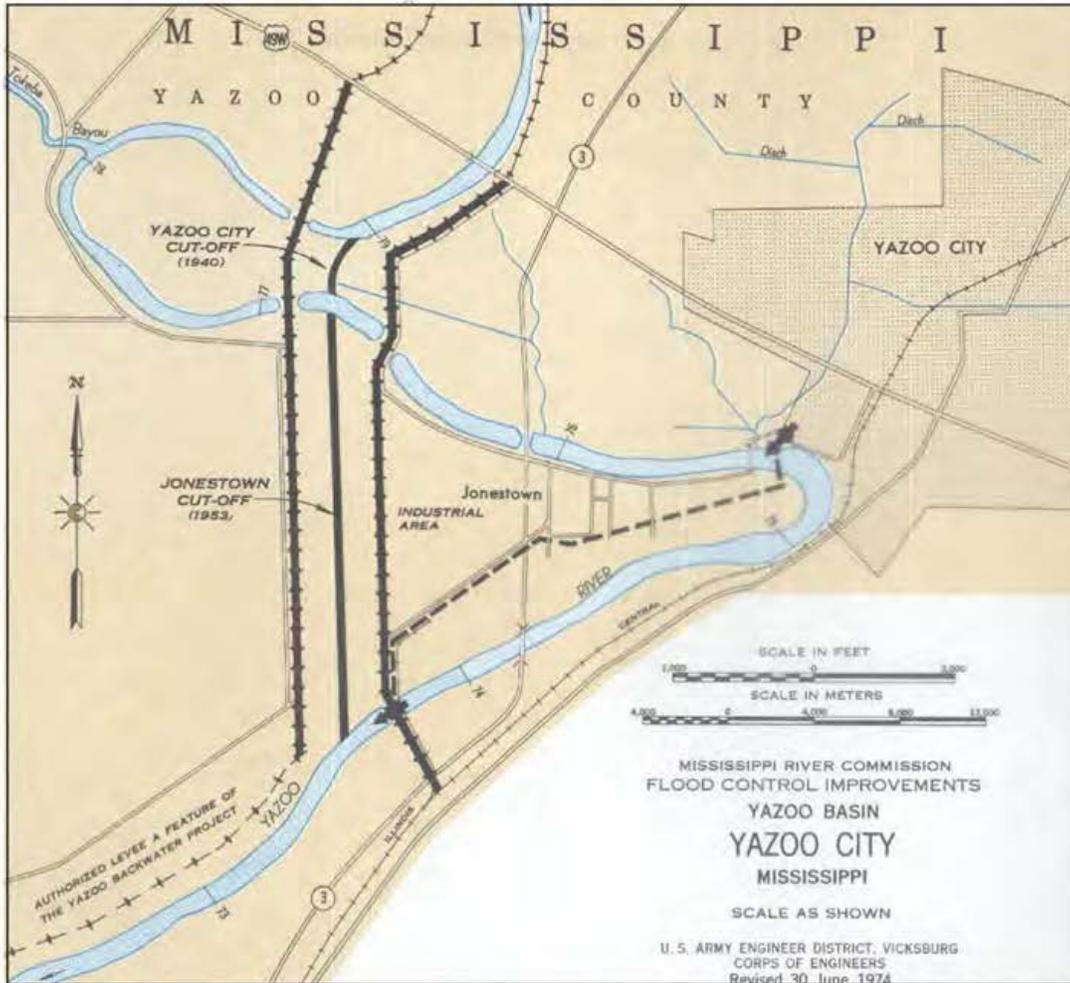
**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$380,000	\$278,000	\$365,000



**YAZOO BASIN, YAZOO CITY, MS**  
**Mississippi**  
**MISSISSIPPI RIVER AND TRIBUTARIES, Maintenance (FRM)**





**US Army Corps  
of Engineers**  
Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Yazoo City, MS

Flood Control Acts of 1928, 1936, 1937, 1938, 1941, 1944, and 1946

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The project is located in the Yazoo Basin.

**Description:** The project includes the operation and maintenance of Yazoo City Protection Works which includes 4 miles of levees, channels, drainage structures, a pumping station and weirs.

**Issues:** Critical work is needed to ensure the integrity of the project to protect people and property from flooding. This work consists of providing adequate levels of funding to operate the drainage structures and pump station on an as-needed basis.

**Importance:** Yazoo City, established on a bend way of the Yazoo River, is a major center of transportation and commerce where the uplands of Mississippi meet the Mississippi Delta. These flood damage reduction measures protect Yazoo City from flooding from the Yazoo River.

**Risk:** Leaving the project in disrepair may lead to flooding issues and reduced levels of flood protection in the project area.

**Consequence:** Failure to operate and maintain the project would jeopardize the project integrity and benefits.

**Activities for FY 20:** Funds in the amount of \$559,000 are being used for operation and maintenance for flood risk management, and data gathering.

**Acquisition Strategy:** O&M contract.



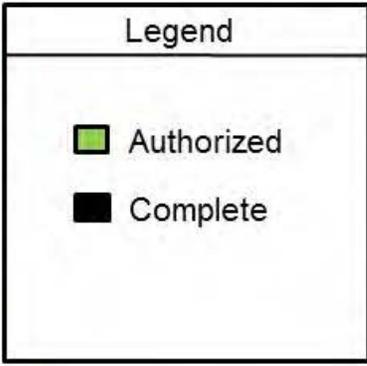
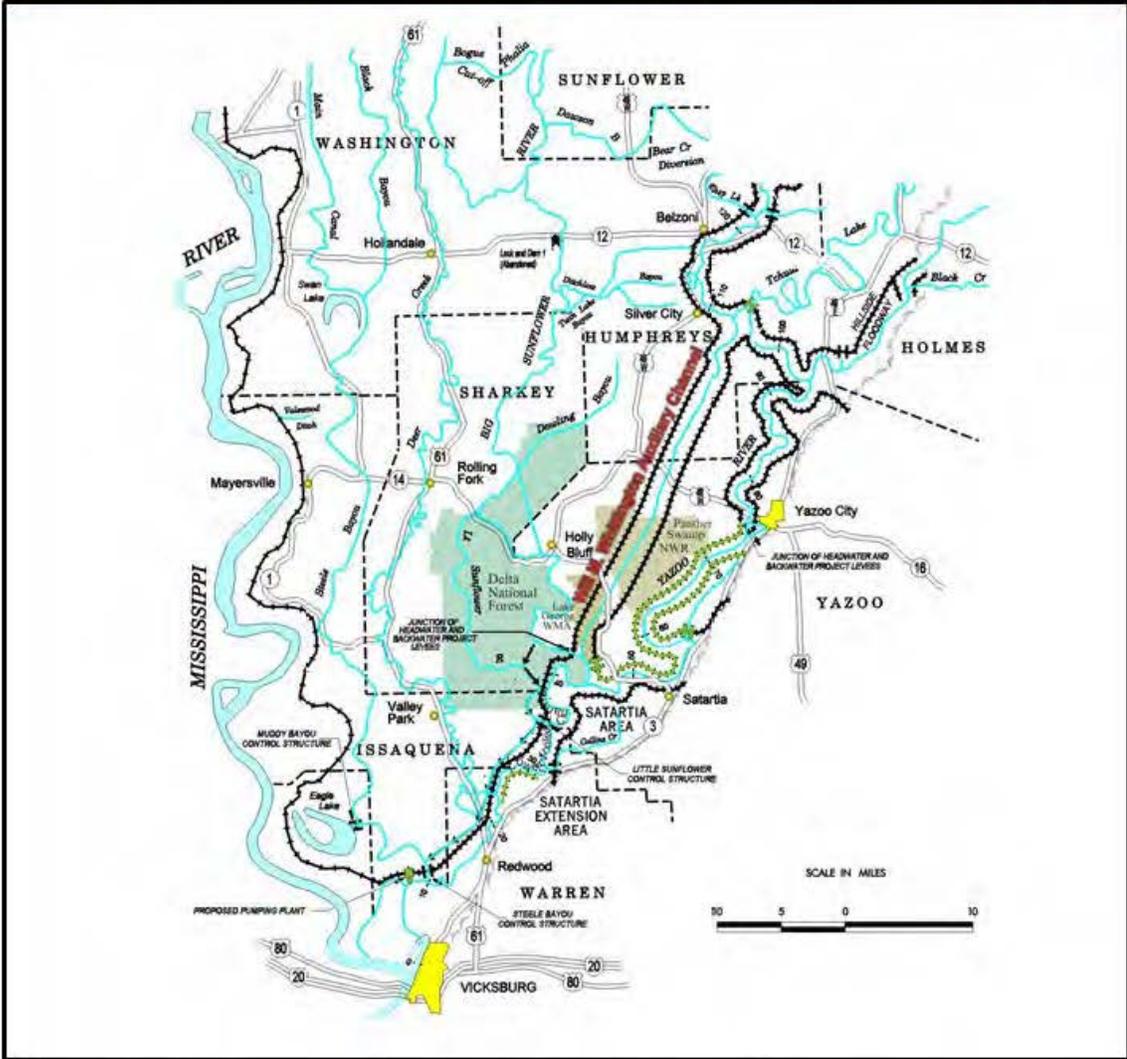
**Yazoo City Protection Works - East Levee –  
Station 44+00**

**Amount That Will Be Used in FY 21:** Funds in the amount of \$409,000 will be used for routine maintenance, data gathering, and periodic inspections. Additional funds in the amount of \$395,000 could be used for maintenance for flood risk management and real estate management.

**Project Sponsor/Customer:** Yazoo-Mississippi Delta Levee Board

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$559,000	\$409,000	\$804,000





US Army Corps  
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Vicksburg District

# Project Fact Sheet

## Yazoo Basin, Yazoo Backwater, MS

Flood Control Acts of 1941, 1944, 1965

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The project is located in west –central Mississippi immediately north of Vicksburg, Mississippi. The Yazoo Backwater area contains 1,074,000 acres and is the area that has historically been subject to flooding from backwater by the Mississippi River. The area is also subject to headwater flooding from the Yazoo River, Sunflower River and Steele Bayou.

**Description:** The Yazoo Backwater area contains 1,074,000 acres and is the area that has historically been subject to flooding from backwater by the Mississippi River. The area is also subject to headwater flooding from the Yazoo River, Sunflower River and Steele Bayou. The project includes the operation and maintenance of seven drainage structures.

**Issues:** Critical work is needed to ensure the integrity of the project to protect people and property from flooding. The Great Flood of 2011 demonstrated the requirement that the Steele Bayou, Little Sunflower and Muddy Bayou Structures be 100 percent reliable. To continue to provide this reliability, we are replacing 4 gates at the Steele Bayou Structure.

**Importance:** The flood control feature protects a large agricultural area and many small communities in the lower Yazoo Delta from backwater flooding of the Mississippi River.

**Risk:** The levee system protects 41,900 people and 18,734 structures and other infrastructure valued at \$320,844,157 within the state of Mississippi.

**Consequence:** Failure to operate and maintain the project would jeopardize the project integrity and benefits.

**Activities for FY 20:** Funds in the amount of \$1,204,000 are being used for data analysis, management of mitigation activities, operation and maintenance for flood risk management, and levee inspections, risk assessment, and risk communication.



**Steele Bayou Drainage Structure on the Yazoo Backwater Levee**

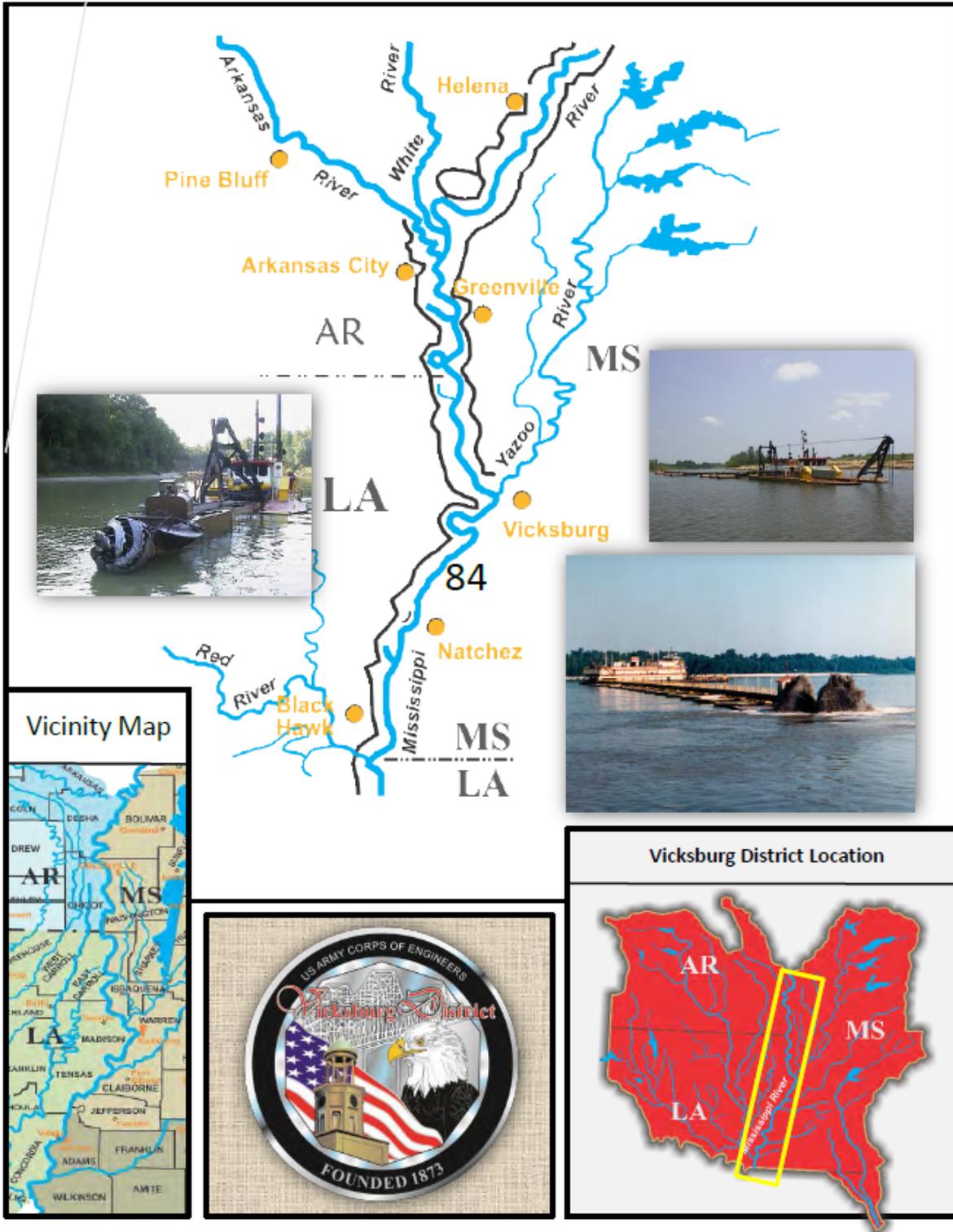
**Acquisition Strategy:** Existing O&M Contract

**Amount That Will Be Used in FY 21:** Funds in the amount of \$425,000 will be used for routine operation and maintenance, and data gathering. Additional funds in the amount of \$815,000 could be used for operation and maintenance for flood risk management (\$680,000), management of mitigation activities (\$100,000), and real estate management (\$35,000).

**Project Sponsor/Customer:** Board of Mississippi Levee Commissioners and the Yazoo Mississippi Delta Levee Board

**Congressional Interest:** Senate: Wicker and Hyde-Smith (MS); House: Thompson (MS-2)

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$1,204,000	\$425,000	\$1,240,000





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# Project Fact Sheet

## Channel Improvement, Dredging, AR, LA, & MS

Flood Control Acts of 1928 (Section 1); 1936 (Section 1); 1938 (Section 4); 1941 (Section 3); 1944 (Section 10); 1962 (Section 203); 1965 (Section 201, 204); 1966 (Section 202, 203); and 1970 (Section 207)

### Mississippi River and Tributaries, Maintenance (NAV)

**Location:** The project is located in the Mississippi River channel from the vicinity of Cessions Towhead at River Mile 616 AHP, to Union Point at River Mile 326 AHP, a distance of approximately 290 miles.

**Description:** The plan of improvement consists of dredging of the Mississippi River main channel to maintain a desirable alignment for purposes of navigation by means of Government owned and commercial dredges.

**Issues:** The Mississippi River channel improvement construction project is not complete. Dredging is required until and after the remaining planned revetments and dikes are completed to provide a complete system capable of providing protection for the flood risk management levees and providing an efficient channel for commercial navigation.

**Importance:** River training structures improve navigation conditions, stabilize bends, and reduce required maintenance dredging requirements. However, river training devices do not completely remove the requirements for dredging.

**Risk:** Significant reduction to the navigation channel is likely to occur if the maintenance dredging is not completed.

**Consequence:** Failure to adequately fund will result in navigation channel deterioration which would adversely impact the navigation industry in economically and efficiently transporting commodities on the Mississippi River.



**Dredge Jadwin**



**Dredge Jadwin**

**Activities for FY 20:** Funds in the amount of \$3,844,000 are being used for operation for navigation and studies and surveys for navigation.

**Acquisition Strategy:** NA

**Amount That Will Be Used in FY 21:** Funds in the amount of \$5,900,000 will be used to conduct surveys, annual maintenance dredging on main line MS River navigation channel. Additional funds in the amount of \$4,550,000 could be used for annual maintenance dredging on main line Mississippi River navigation channel.

**Project Sponsor/Customer:** Navigation industry and the environmental community.

**Congressional Interest:** Senate: Boozman and Cotton (AR), Cassidy and Kennedy (LA), Hyde-Smith and Wicker (MS); House: Crawford (AR-1), Westerman (AR-4), Abraham (LA-5), Thompson (MS-2), and Guest (MS-3)

FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
\$3,844,000	\$5,900,000	\$10,450,000

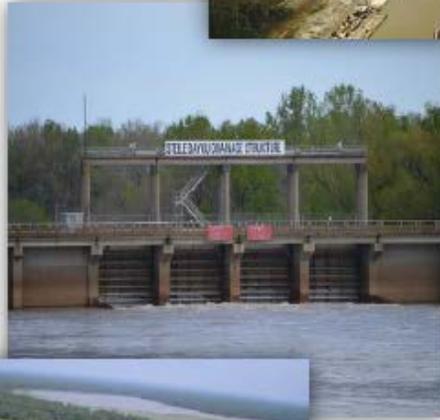


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# MISSISSIPPI RIVER AND TRIBUTARIES, Maintenance (FRM)

## Mississippi

### INSPECTION OF COMPLETED WORKS



Vicksburg District Location





**US Army Corps of Engineers**  
Vicksburg District

# Project Fact Sheet

## Inspection of Completed Works (ICW) MS

Rivers and Harbors Act (RHA) of 1899 (Section 408); Flood Control Act (FCA) of 1937 (Section 2); RHA of 1945 (Section 3); FCA of 1946 (Section 14); FCA of 1948 (Section 205); FCA 1970 (Section 221); 33 Code of Federal Regulations, Part 208

### Mississippi River and Tributaries, Maintenance (FRM)

**Location:** The project covers the portion of the Vicksburg District located within the state of Mississippi.

**Description:** The work consists of inspecting and reporting on 568.7 miles of levees, 1,394.8 miles of channels, 189 drainage structures, 6 pumping stations and 47 weirs in the State of Mississippi.

**Issues** The labor intensive requirement to perform periodic inspections on all levee systems is consuming excessive amounts of the limited ICW funding we traditionally have received to perform annual inspections. This is deferring the annual inspection of some infrastructure items.

**Importance:** These inspections allow the Vicksburg District to identify deficiencies that may have life safety consequences. These inspections also verify the adequacy of Operation and Maintenance activities by the sponsors and reveal where improvements are needed to ensure the flood damage reduction features function as designed.

**Risk:** The public relies on the flood damage reduction systems to protect life and infrastructure from high water events.



**Channel Inspection**

**Consequence:** Population at risk is 216,662, the number of structures at risk is 93,179 valued at \$16,599,587.

**Activities for FY 20:** Funds in the amount of \$197,000 are being used for levee inspections, risk assessments, and risk communication.

**Acquisition Strategy:** None.

**Amount That Will Be Used in FY 21:** TBD. Funds in the amount of \$381,000 could be used to perform inspections of MR&T levees, channels, and structures in Mississippi within the borders of the Vicksburg District.

**Project Sponsor/Customer:** Board of Mississippi Levee Commissioners, Yazoo-Mississippi Delta Levee Board, Belzoni Drainage District, US Fish and Wildlife Service.

**Congressional Interest:** Senate: Hyde-Smith and Wicker (MS), House: Thompson (MS-2).



**Levee Inspection**

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$197,000	\$0	\$381,000



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# Project Fact Sheet

## Mapping

### MR&T Maintenance (RI)

**Mapping** - This program provides for up-to-date topographic maps of the alluvial valley in the furtherance of the controls of floods within the Mississippi River and Tributaries.

**Activities for FY 20:** Funds in the amount of \$399,000 are being used for studies and surveys.

**Amount That Could Be Used in FY 21:** TBD. Additional funds in the amount of \$399,000 could be used to continue performing mapping activities including collection of funds for the sales of maps, publications, historical photos, aerial photography and other materials on rivers and harbor, and flood control infrastructure on the Mississippi River and Tributaries.

Phase	FY 20 Allocation	FY 21 Budget	FY 21 Total Capability
Maintenance	\$399,000	\$0	\$399,000



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