

MISSISSIPPI RIVER COMMISSION*

The Mississippi River Commission (MRC) was created by an act of Congress on Jun. 28, 1879. The Flood Control Act of May 15, 1928, authorized the Flood Control, Mississippi River and Tributaries (MR&T) Project. The Commission consists of three officers of the Corps of Engineers, one from the former Coast and Geodetic Survey (presently the National Oceanic and Atmospheric Administration), and three civilians, two of whom must be civil engineers. All members are appointed by the President with the advice and consent of the Senate.

The Mississippi River Commission has a proud heritage that dates back to June 28, 1879. Congress established the seven-member presidential Commission with the mission to transform the Mississippi River into a reliable commercial artery, while protecting adjacent towns and fertile agricultural lands from destructive floods. The 1879 legislation that created the Mississippi River Commission granted the body extensive planning authority and jurisdiction on the Mississippi River stretching from its headwaters at Lake Itasca to the Head of Passes, near its mouth at the Gulf of Mexico. The Mississippi River Commission quickly assumed the role of an active Federal agent capable of transcending the regional issues that had previously hampered the development of a more effective river improvement system. The Commission began improving the navigation channel to promote commerce, setting standards for levee construction, and holding public hearings to give local interests a greater voice in shaping federal policy.

The Mississippi River Commission continued its 129-year process of listening to the concerns of partners and stakeholders in the Mississippi valley, inspecting the challenges posed by the river, and partnering to find sustainable engineering solutions to those challenges through the 2008 High-Water Inspection (378th Session of the Mississippi River Commission) and the 2008 Low-Water Inspection (379th Session). The official record of the Proceedings of the Mississippi River Commission, complete with recorded hearings of public meetings, copies of signed formal statements provided

by the public, executive summaries of the Proceedings, and other documents of significance, are kept on file in the Office of the President in Vicksburg, MS.

The MRC is charged, under direction of the Secretary of the Army and supervision of the Chief of Engineers, with prosecution of improvements for flood control of the Mississippi River and of its tributaries and outlets in its alluvial valley, so far as they are affected by Mississippi River backwater, between Head of Passes, LA (mile 0), and Cape Girardeau, MO (1,006 miles AHP-Lower Mississippi mileage terminates at mile 954 AHP), and with prosecution of improvements in the interest of navigation between Cairo, IL (954 miles AHP), and Baton Rouge, LA (234 miles AHP); and for stabilization of the lower 7 miles of the right bank of the Ohio River, to former mouth of Cache River. It also is charged with prosecution of certain flood control works on the Mississippi River and tributaries, as far as they are affected by backwater, between Cape Girardeau, MO, and Rock Island, IL (1,437 miles AHP), and with prosecution of improvements on designated tributaries and outlets below Cape Girardeau for flood control, navigation, major drainage, and related water uses. Authorized operations of the Commission below Cape Girardeau are conducted by District Engineers of New Orleans, Vicksburg, Memphis, and St. Louis Districts within the areas described below, in accordance with approved directives and programs and congressional appropriations therefore.

378th Session of the Mississippi River Commission

The Mississippi River conducted its 378th Session from April 6-11, 2008, onboard the MV *Mississippi* en route from Tiptonville, TN, to New Orleans, LA, as part of the annual High-Water Inspection trip. The MRC held public hearings at Tiptonville and Memphis, TN, and Lake Providence and New Orleans, LA. More than 210 members of the public attended the public meetings. The inspection trip coincided with moderate to significant flooding on the Mississippi River and

* Authorizing legislation (Tables 41-D and 41-E) is listed at the end of this chapter. All other tables are referenced in text and also appear at the end of the chapter.

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offered MRC its first opportunity in nearly a decade to inspect the flood control features of the Mississippi River and Tributaries (MR&T) project during a sizeable high-water event.

The MRC members present during the 378th Session included BG Michael Walsh, who assumed command as Commander, Mississippi Valley Division, and President Designee of MRC on February 20, 2008; Mr. Sam E. Angel, reappointed as a member on November 15, 1999; Mr. R. D. James, civil engineer, reappointed as a member on April 16, 2003; Mr. William Clifford Smith, civil engineer, appointed October 22, 1998; and RADM Jonathan Bailey, National Oceanic and Atmospheric Administration, serving as a member designee since October 6, 2007. COL Steven Miles, Commander, Northwestern Division, represented the Missouri River Basin as a nonappointed and nonvoting participant. BG Bruce A. Berwick, Commander, Great Lakes and Ohio River Division, appointed as member October 6, 2006, was unable to attend. COL Albert Bleakley served as Secretary of the Commission, which is a nonvoting position.

On Sunday, April 6, MRC staff provided the members with a summary of regional funding trends for the MR&T project and an analysis of authorizations contained in the Water Resources and Development Act of 2007 (WRDA 07), which was signed into law after the previous gathering of the Commission. The Chief of Watershed Management Division, Mississippi Valley Division (MVD), then provided an analysis of river conditions; complete with stage crest forecasts; future precipitation forecasts; and a comparison of the 1973, 1993, and 2008 hydrographs. During the briefing, the members were informed of the increasing likelihood of the necessity to operate the Bonnet Carré Spillway as prescribed in the approved spillway operations manual and the MVD Operations Plan. The Chief of Operations, MVD, followed this briefing with a discussion of the impacts of the high-water event on the navigation features of the MR&T project. COL Thomas Smith, Commander of the Memphis District, provided an update on flood-fight operations within the District boundaries and a detailed briefing on the status, schedules, and issues pertaining to MR&T projects within his area of operations, to include the Bayou Meto Basin and the Grand Prairie Region, AR; St. John's Bayou-New Madrid Floodway, MO; Ten and Fifteen Mile Bayous, AR; and maintenance within the St. Francis Basin.

On Monday, April 7, MRC held a public meeting at Tiptonville. The extreme high water on the river forced MRC to move its meeting location from the Tiptonville

ferry landing to the nearby Cargill dock. Approximately 30 members of the public attended the meeting. Issues discussed by the presenters included confusion and dissatisfaction with the FEMA and Corps levee certification process, concerns regarding the ongoing high-water event, the challenges facing small ports and harbors, and general maintenance issues. Following the meeting, the members inspected an ongoing emergency operation by the Memphis District to repair active bank caving on the Dyer County Little Levee, a non-Federal levee along the north bank of the Obion River that was incorporated into the P.L. 84-99 program. After the site inspection, the MRC staff provided the members with an update on the reevaluation of the recommended plan for the Upper Mississippi River – Illinois Waterway System Navigation Study and a briefing on the status of the Upper Mississippi River Comprehensive Plan. The MVD staff informed the members that the Commission would consider the Comprehensive Plan and conduct a public meeting for observation prior to or during the Low-Water Inspection trip.

On Tuesday, April 8, MRC held a public meeting at Memphis. More than 80 members of the public attended the meeting and heard a broad range of views by the presenters. Issues presented again centered on concerns regarding the FEMA and Corps levee certification process, FEMA's inclusion of lands protected by MR&T levees in the Zone X area of flood plain maps, water supply and ground-water issues, and discussion of levees and navigation on the White River. Following the public meeting, MRC inspected the W. G. Huxtable pumping plant located at Marianna, AR, at the lower end of the St. Francis Basin. This component of the MR&T project, with a total pumping capacity of 12,500 cubic feet per second (cfs), is the largest stormwater runoff pumping plant in the nation. The high-water conditions afforded the members the opportunity to inspect the plant at full pumping capacity.

On the morning of Wednesday, April 9, COL Michael Wehr, Commander of the Vicksburg District, briefed the Commission on flood-fight operations within his area of operations and then briefed the members on a number of MR&T-related issues and projects, to include improvements made to the Mississippi River Levee system. COL Wehr also informed the Commission that the Environmental Protection Agency (EPA) had informed USACE and the project sponsor that it was moving toward a veto of the pumping plant feature of the Yazoo Backwater Project under the authority of Section 404(c) of the Clean Water Act. Last, COL Wehr informed the members WRDA 07 reinstated the Ouachita River Levees as a

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component of the MR&T project, thereby affording the levees the same operation and maintenance responsibilities under the MR&T appropriation. Following the briefing, the Commission held a public meeting at Lake Providence. Nearly 45 members of the public attended the meeting. Presenters again expressed their concerns with the levee certification process and Zone X, as well as the lack of MR&T representation on the Corps levee safety board and the EPA threat of a Section 404(c) veto of the Yazoo Backwater Project. Later that same evening, COL Alvin Lee, Commander of the New Orleans District, briefed the Commission on the status, schedules, and issues relating to MR&T General Investigations and Construction projects within his area of operations. He also provided an overview of river conditions and flood-fight operations within the boundaries of the New Orleans District.

On Thursday, April 10, staff members from the New Orleans District briefed the Commission on the status of the Louisiana Coastal Area (LCA) ecosystem restoration project, which was authorized by WRDA 07. The staff emphasized the relationship of the project to the Commission and the MR&T project by informing the members that several study considerations included integration of the LCA plan into the MR&T project, alternative operations of the Old River Control Structure, and examination of sediment issues in the Mississippi and Atchafalaya systems. With freshwater diversion being a high priority of the LCA project, a followup discussion centered on the cumulative effects of all diversions within the MR&T system ensued. The New Orleans District staff also provided MRC with an overview of the Hurricane Protection System in southeast Louisiana and an update on the Louisiana Coastal Protection and Restoration study.

On Friday, April 11, MRC held a public meeting in New Orleans. Approximately 60 members of the public attended. Presenters discussed a broad array of topics that centered on the possible inclusion of additional freshwater diversions as provided in Section 7002 of WRDA 07; the need for coastal restoration; the Morganza to the Gulf project; water quality, dredging, and navigation issues in the Atchafalaya Basin; and the impacts of operating the Bonnet Carré spillway as a result of the extreme high-water discharge during the ongoing high-water event.

Operation of Bonnet Carré Spillway

On Tuesday, April 8, the Commission participated in a conference call with COL Alvin Lee, Commander of the New Orleans District, regarding the possible

operation of the Bonnet Carré Spillway and to clarify the decision-making process in that regard. By a letter dated April 9, COL Lee officially requested the MRC President to open the spillway on April 11 to keep the volume of discharge of the Mississippi River from exceeding 1.25 million cfs flowing past New Orleans. BG Walsh gathered the Commission to discuss COL Lee's request to operate the spillway. The Commission concurred with the recommendation based on confirmation of river crest forecasts. After consultation with the Chief of Engineers and after discussion with Louisiana and Mississippi congressional interests and the governors of both states, BG Walsh authorized the operation of the spillway on April 10. On April 11, the Commission, which was already in the New Orleans area for a public hearing, traveled to the Bonnet Carré structure to inspect the initial operations to open the spillway.

379th Session of the Mississippi River Commission

The MRC gathered onboard the MV *Mississippi* en route from St. Paul, MN, to Alton, IL, as part of the first week of the 2-week-long annual Low-Water Inspection trip. The Commission held public hearings at Red Wing, Davenport, IA; Hannibal, MO; and Alton. More than 215 people attended these public meetings. The MRC members present during the inspection trip on the upper Mississippi River included BG Walsh, who assumed command as Commander, Mississippi Valley Division, and President Designee of MRC on February 20, 2008; Mr. Sam E. Angel, reappointed as a member on November 15, 1999; Mr. R. D. James, civil engineer, reappointed as a member on April 16, 2003; Mr. William Clifford Smith, civil engineer, appointed October 22, 1998; BG William Rapp, member designee and Commander, Northwestern Division; and BG John Peabody, member designee and Commander, Great Lakes and Ohio River Division. RADM Jonathan Bailey, National Oceanic and Atmospheric Administration, was unable to attend. Mr. Timothy S. Gambrell, Executive Director of MRC, served as acting secretary.

On Sunday, August 10, the Commission traveled to Lock and Dam No. 2 and received a detailed construction briefing from the Flatiron-Manson project manager overseeing the construction of the 35W bridge replacement across the Mississippi River at Minneapolis. The members also toured the construction site to garner a closer understanding of the unique construction methods being utilized by the contractor. Following the site visit, COL Jon Christensen, Commander of the St. Paul District, provided the Commission with an update of the General Investigation, Construction, and Operations and

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Maintenance programs within the District's area of operations, to include discussion of the Upper Mississippi River System Environmental Management Program (EMP), the Upper Mississippi River 9-Foot Channel Project, and the Upper Mississippi River System Navigation and Ecosystem Sustainability Program (NESP).

On Monday, August 11, the Commission held a public meeting at Red Wing. More than 50 members of the public attended. Presenters exhibited great pride in the broad-based, collaborative relationships established in the upper basin—a sentiment recognized by the MRC. Issues and concerns presented included, but were not limited to, the need to secure appropriations for authorized projects in the upper basin, particularly with regard to NESP and Lock and Dam No. 3 Navigation Safety and Embankments project, the desire to see expansion of the Upper Mississippi Restoration Program under NESP, and the preservation of recreational facilities and opportunities. Following the public meeting, the members received an indepth briefing on the Lock and Dam No. 3 Navigation Safety and Embankments project and inspected the site of the proposed project. The project will address the navigation safety problem caused by an outdraft current that tends to steer towboats and barges away from Lock No. 3 and toward the gated portion of the dam. The project will also remedy a related problem with low and weak embankments on the east bank of the dam. As the last order of business for the day, the MRC historian provided the members with a thorough discussion of the Commission's existing authorities established in the 1879 Mississippi River Commission Act and the 1928 Flood Control Act.

On Tuesday, August 12, the Chairman of the USACE Levee Safety Policy and Procedure Team provided the Commission with an impressive presentation covering the mission, organization, and goals of the program established to assess the integrity and viability of levees and to recommend actions to assure that the levees do not present unacceptable risks. Levee districts from throughout the Mississippi Valley have expressed to the Commission grave concerns with the program. The presentation afforded the members a chance to ask lingering questions about the program and receive answers to those questions. COL Robert Sinkler, Commander, Rock Island District, followed with an overview of the projects and programs within his jurisdiction, to include discussion of the Upper Mississippi River Comprehensive Plan and NESP. Following the briefing, the Commission traveled to Lock and Dam No. 11 to inspect the improvements made under the major rehabilitation efforts underway. The Commission also viewed the Mud Lake Habitat

Rehabilitation and Enhancement project being accomplished under the EMP. The Commission ended the day with a partnering session aboard the MV *Mississippi*. The session focused on a discussion of a 200-year vision for the Mississippi drainage basin.

On Wednesday, August 13, the Commission held a public meeting at Davenport with more than 40 members of the public in attendance. The Honorable John Paul Woodley, Assistant Secretary of the Army for Civil Works, boarded the MV *Mississippi* and attended the public meeting. Presentations provided to the Members focused heavily on the recent record-breaking flood that devastated portions of the region. The preponderance of speakers spoke favorably of the Upper Mississippi Comprehensive Plan, with broad support exhibited specifically for Plan M. Several presenters requested the Commission to assist and secure prompt authorization and funding for the Comprehensive Plan. Other issues and concerns expressed to the Commission included the need to secure appropriations for authorized projects in the upper basin, the need and importance of navigation to the regional economy, preservation of the riverine environment and ecosystem, and desire and need for collaboration among the various interest groups and stakeholders in the region. Following the public meeting, the Commission traveled to Moline, IL, for a partnering session with members of the John Deere Foundation and received a 2008 Upper Mississippi flood briefing from members of the Rock Island District staff. Upon return to the MV *Mississippi*, the Members, with Mr. Woodley in attendance, received a prebriefing overview from the Comprehensive Plan study team. The briefing afforded the Commission the opportunity to gain clarification, without deliberation, on certain topics that had risen during their individual reviews of the Comprehensive Plan Reconnaissance Study.

On Thursday, August 14, the Commission remained on the MV *Mississippi* en route to Hannibal for the public meeting organized for the Commission to review and consider the reconnaissance-level study for the Upper Mississippi River Comprehensive Plan. While in transit, the Members received briefings from several academic organizations detailing wide-ranging programs coordinated in partnership with the Rock Island District. Upon arrival in Hannibal, the Commission conducted the public meeting on the Comprehensive Plan with approximately 45 members of the public in attendance. The Commission voted to make a favorable recommendation to the Chief of Engineers and the Assistant Secretary of the Army for Civil works of Plan H, with the caveat that no induced increases in surface water levels on the Mississippi River below Thebes, IL. The motion and amendment

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carried by a 4 to 2 vote, with BG Rapp and BG Peabody voting in the minority over concerns that the amendment might jeopardize the eventual implementation of Plan H. The following motions accepting the District Engineer's recommendations carried unanimously:

- Placement of additional river gages on the Mississippi River and tributaries to better forecast flood events and inform the public of potential flood risks.
- Watershed analysis on individual tributaries to address the major problems experienced during the 1993 and 2008 floods.
- A feasibility study to address the reconstruction needs of the aging infrastructure to ensure that the systems provide their intended benefits into the future.
- A feasibility study of critical transportation needs to ensure that approaches to bridges crossing the Mississippi and Illinois Rivers remain accessible during major flood events.

A signed copy of the recommendation of the Mississippi River Commission on the Upper Mississippi River Comprehensive Plan is attached to the annual report. The Assistant Secretary of the Army for Civil Works forwarded the Commission's recommendations on the comprehensive plan to Congress in January 2009.

Following the public meeting, COL Thomas O'Hara, Commander of the St. Louis District, provided the Commission with an overview of projects and issues within his area of operations. On Friday, August 15, the Commission held a public meeting in Alton, with more than 80 members of the public in attendance. The public provided nearly 30 presentations to the Members. The issues and concerns included the recent flood events in the upper Mississippi basin, support for the Comprehensive Plan and other flood control improvements, the levee certification program, ecosystem preservation and restoration, flood plain restoration, funding for NESP, and Missouri River water resources. Following the public meeting, the Commission recessed for the weekend.

The MRC reconvened the 379th Session on August 17, 2008, onboard the MV *Mississippi* en route from New Madrid, MO, to Houma, LA. The Commission held public hearings at New Madrid and Memphis, TN; Greenville, MS; and Houma. Approximately 220 people attended the four public meetings. The Members of the Mississippi River Commission present during the second week of the 2-week-long inspection trip included BG Michael Walsh; Mr. Sam E. Angel; Mr. R. D. James, civil engineer; Mr. William Clifford Smith, civil engineer; RADM Jonathan Bailey; BG William Rapp; and BG John Peabody. COL George T. Shepard served as the nonvoting Secretary of the Commission.

On Sunday, August 17, the project manager for the St. John's Bayou – New Madrid Floodway project provided an overview briefing on the project authorizations and designs. The Commission had learned the previous week that the Solicitor General's Office and the Department of Justice did not intend to appeal the September 2007 District Court injunction to halt the project. The Commission also toured the construction site at the lower end of the New Madrid floodway. COL Thomas Smith, Commander of the Memphis District, informed the Commission of possible ways forward with regard to the project and posited the advantages and disadvantages of each alternative. The three alternatives discussed included the development of a new Environmental Impact Statement (EIS), revising the existing EIS, and termination of the project. COL Smith also provided a detailed briefing on the status, schedules, and issues pertaining to MR&T projects within his area of operations, to include the Bayou Meto Basin, Grand Prairie Region, New Madrid Riverfront Improvements, Wolf River, Ten and Fifteen Mile Bayous, Reelfoot Lake, and maintenance within the St. Francis Basin. COL Smith's briefing also centered on several non-MR&T projects to include the Little River Diversion, the Lower Mississippi River Resource Assessment, Northwest Tennessee Harbor, and the White River Navigation project.

On Monday, August 18, the Commission held a public meeting at New Madrid, with approximately 45 members of the public in attendance. Issues discussed by the presenters centered mainly on displeasure concerning recent developments with the St. John's Bayou – New Madrid Floodway project,

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dissatisfaction with MR&T protected areas being included in Zone X on FEMA maps, issues associated with the spring flood event on the lower river, and transportation issues. Following the meeting, the Members received additional briefings from the Memphis District staff. Owing to the spring 2008 flood on the lower Mississippi River and the subsequent operation of the Bonnet Carré Spillway, the Commission received a briefing detailing the authority, evolution, major features, hydraulics, and decision points concerning the operating plan for the Birds Point – New Madrid Floodway. This was followed by briefings on the National Levee Database, not from a policy discussion standpoint, but from the GIS perspective on the ground, the Lower Mississippi River Resource Assessment, and the Mississippi River Marine Seismic Survey.

On Tuesday, August 19, the Commission held a public meeting at Memphis, with more than 65 members of the public in attendance. Issues presented again centered on concerns regarding the FEMA and Corps levee certification process, FEMA's inclusion of lands protected by MR&T levees in the Zone X area of flood plain maps, water supply and ground-water issues, and discussion of levees and navigation on the White River.

On the morning of Wednesday, August 20, COL Michael Wehr, Commander of the Vicksburg District, briefed the Commission on a number of MR&T-related issues and projects to include improvements made to the Mississippi River Levee system. COL Wehr also informed the Commission that EPA had informed the Assistant Secretary of the Army for Civil Works that it had begun the formal review process toward a Section 404(c) veto of the pumping plant feature of the Yazoo Backwater Project. COL Wehr also informed the Members that the local sponsor had initiated a records search that ultimately could transfer EPA authority to Section 404(r). Following the briefing, the Commission held a public meeting at Greenville. Fifty-four members of the public attended the meeting. Presenters again expressed their dissatisfaction with the EPA threat to veto the Yazoo Backwater project and conveyed their concerns with the levee certification process, FEMA inclusion of areas protected by the MR&T project in Zone X in revised flood plain maps, and inadequate funding for projects. The Commission spent the remainder of the day partnering with local stakeholders onboard the MV *Mississippi*.

On Thursday, August 21, staff members from the New Orleans District briefed the Commission on the status of the Louisiana Coastal Protection and Restoration project, LCA ecosystem restoration project, and the Morganza to the Gulf of Mexico feasibility study. The New Orleans District staff also provided the Commission with an overview of the Hurricane Storm Damage Risk Reduction System and a detailed overview of lessons learned during the 2008 spring floods. COL Alvin Lee, Commander of the New Orleans District, also briefed the Commission on a number of MR&T-related issues, studies, and projects, to include the Alexandria to the Gulf of Mexico feasibility study, Donaldson to the Gulf of Mexico feasibility study, the Caernarvon and Davis Pond freshwater diversion projects, the Mississippi River levee system, and a host of issues and projects in the Atchafalaya Basin.

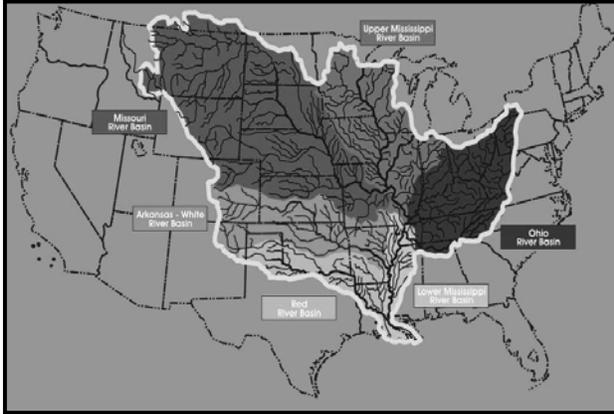
On Friday, August 21, the Commission held a public meeting in New Orleans. More than 60 members of the public attended. Approximately 100 third- and fourth-grade school children also attended short segments of the public hearing as part of a civics lesson on government. Presenters at the public hearing discussed a broad array of topics that centered on coastal restoration, support for the Morganza to the Gulf of Mexico project, the need for the Houma lock and deepening the Houma navigation canal, beneficial uses of dredged material, hurricane and flood protection, sediment problems, support for sediment slurry pipeline to restore marshlands, and innovating ways to have flood control while reintroducing sediment from the river onto the land. Following the public meeting, the Commission toured the coastal Louisiana area south of Houma and generally along the footprint of the Morganza to the Gulf levee. During the site visit, the Commission viewed both thriving and deteriorating wetlands and marshes.

During the fiscal year, the Mississippi River Commission listened to, inspected alongside, partnered, and evaluated engineering solutions with more than 1,000 stakeholders, state representatives, non-government organization representatives, and local interests.

The mission of the Mississippi River Commission includes balancing the requirements of flood control, navigation, and the environment by providing water resource engineering direction and policy advice to the Administration, Congress, and the Army in a drainage basin that comprises 41% of the United States and

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2 provinces of Canada, and to lead sustainable management and development of water and related resources for the nation's benefit and the people's well-being.



The basin drains 41% of the US: - 31 States, 2 Canadian Provinces

The unique structure of the Mississippi River Commission continues to serve the nation well (military and civilian): the three engineer officers from the Army, one uniformed officer from NOAA, and three civilian members (two must be civil engineers).

- Since August 1997, the Mississippi River Commission has resumed its inspection of upper Mississippi River. In August 2005, the Commission conducted a listening and inspection tour of the Ohio River Basin and in August of 2007, did the same on the Missouri River Basin; both in an effort to share and learn from experiences from the watershed management of those tributary basins.
- Stakeholders and the public have requested Mississippi River Commission involvement in several major studies and projects.
- For projects and studies that require a broad watershed approach with multiple levels of interest, the Mississippi River Commission's authorities, resources, and relationships continue to prove effective.

The Mississippi River Commission provides:

- A valuable forum, voice, and partner for diverse interests throughout the basin.

- Implementation oversight for a range of water resource activities and comprehensive management of the Mississippi River & Tributaries Project.
- An established record of expertise and accomplishment.
- A clear charter that includes the entire watershed.
- An avenue to task U.S. Army Corps and NOAA for equipment and personnel.
- Working relationships with the Chief of Engineers, the Assistant Secretary of the Army for Civil Works, and Congress to address challenges and make improvements in the watershed.

The Records of Proceedings for all sessions of the Mississippi River Commission are on file in the office of the President at the Mississippi River Commission building in Vicksburg, MS.

New Orleans District: Mississippi River project levees and river channel stabilization as required from Head of Passes, mile 0 to 320 AHP, construction of three salinity-control structures for fish and wildlife enhancement, two in lower Mississippi River Delta region, and one in the Mississippi-Louisiana Estuarine Area; Bonnet Carré and Morganza Floodways; maintenance and improvements of Mississippi River navigation channel from Baton Rouge, LA (mile 234 AHP), to mile 320; Baton Rouge Harbor (Devils Swamp); navigation improvement of Atchafalaya and Old Rivers from Mississippi River to Morgan City; control of Old and Atchafalaya Rivers; Atchafalaya Basin Floodways; flood control and drainage improvements in Bayou Coudrie and tributaries, in Bayou des Glaises, and in Upper Pointe Coupee Loop area; and freshwater distribution from Atchafalaya River to Teche-Vermilion Basins.

Vicksburg District: Mississippi River project levees and river channel stabilization as required from upper limits of New Orleans District (mile 320 AHP) in vicinity of Black Hawk, LA, to Coahoma-Bolivar County line, MS (mile 620 AHP) on left bank, and to vicinity of mouth of White River, AR (mile 599 AHP), on right bank including south bank Arkansas River levee to vicinity of Pine Bluff, AR, and north bank

levee to vicinity of Tucker on left bank of Plum Bayou, AR; bank stabilization in lower 36.1 miles of Arkansas River; maintenance and improvement of Mississippi River navigation channel between miles 320 and 599 AHP; Vicksburg and Greenville Harbors; specific fish and wildlife facilities in Tensas, Yazoo, and Big Sunflower Basins; a demonstration erosion control project in the Yazoo Basin; flood control and drainage improvements in Red River backwater area including leveed portions east and west of Black River and south of Red River; Jonesville, LA, Boeuf and Tensas Rivers, Bayou Macon Basins and tributaries, AR and LA, and Bayou Lafourche, LA; Yazoo River Basin, MS, including backwater area; Big and Little Sunflower Rivers, Deer Creek, and Steele Bayou, MS; and Grand Prairie Region and Bayou Meto Basin, AR, including provision for agricultural water supply.

Memphis District: Mississippi River project levees and river channel stabilization as required, from upper limits of Vicksburg District to north bank of Little River diversion channel, MO (1,003 miles AHP), a few miles below Cape Girardeau, MO, on right bank, and to Cache River diversion channel (967 miles AHP) above Cairo, IL, on left bank, including levees and revetment on right bank of Ohio River, in Mounds-Mound City area, IL; except operations above Cairo, IL, do not include channel stabilization on the Mississippi River. Maintenance and improvement of Mississippi River navigation channel between mile 599 and 954 AHP and of Memphis Harbor, TN; specific fish and wildlife facilities in St. Francis Basin; levees in White River backwater area up to vicinity of Augusta, AR, and a pumping plant near mouth of White River; levees and pumping plants at De Valls Bluff and Des Arc, AR; channel improvements in Cache River Basin, AR; channel improvements in Big Creek and tributaries, AR; improvement works in St. Francis River Basin, MO and AR, including backwater area improvements in Belle Fountain Ditch and Drainage District No. 17, AR; Castor River diversion channel, MO, and L'Anguille River, AR; Wolf River Basin, TN; Obion and Forked Deer River Basins, TN; Reelfoot Lake area, including channel improvement for Bayou du Chien and Lake No. 9, TN and KY; West Kentucky tributaries, KY; Mud Lake pumping station, TN; and pumping plants and outlet structures in the Cairo-Mounds-Mound City area, IL. Channel improvements to Francis Bland Floodway Ditch (Eight Mile Creek), Arkansas; Whiteman's Creek Ten Mile and Fifteen Mile Bayous in West Memphis, and vicinity Arkansas; Horn Lake Creek and Tributaries,

Mississippi; and Nonconnah Creek, Tennessee and Mississippi. Navigation channel and harbor improvements to Helena Harbor and vicinity, Arkansas at Mississippi River, mile 652 AHP. Channel improvements and pumping station for Helena, Phillips County, and vicinity, Arkansas and St. Johns Bayou and New Madrid Floodway, Missouri.

Field operations of the commission restricted to levee construction under Sec. 6, 1928 Flood Control Act (local interests contributing one-third of costs and furnishing rights-of-way) are conducted within the following limits by two districts reporting directly to the Commission on matters within their jurisdiction—St. Louis District: Mississippi River (Sec. 6) levees from upper limits of Memphis District to Clemens Station, MO (1,254 miles AHP), on right bank, and Hamburg Bay, IL (1,215 miles AHP), on left bank, and Illinois River from its mouth to mile 120 at Havana, IL. Rock Island District: Mississippi River (Sec. 6) levees from upper limits of St. Louis District to Rock Island, IL (1,437 miles AHP). For work accomplished see Table 42-N, page 42-50, Annual Report for 1975.

St. Louis District: Wappapello Dam and Lake is located on the upper St. Francis River in Sections 2 and 3, Township 26 North, Range 7 East, Wayne County, Missouri. The dam is located at river mile 213.2; 16 miles northeast of Poplar Bluff, Missouri; less than 1 mile southwest of Wappapello, Missouri. This dam and reservoir project provides flood control, recreation, water quality, and conservation of fish and wildlife. Wappapello Lake consists of 44,349 acres of land and 8,400 acres of water.

MISSISSIPPI RIVER AND ALLUVIAL VALLEY BELOW CAPE GIRARDEAU, MO

Location and description. The Mississippi River rises in Lake Itasca, MN, and flows generally southerly for 2,340 miles through the central portion of United States to empty into the Gulf of Mexico 115 miles below New Orleans. It is improved for barge navigation for 1,832 miles to Minneapolis, MN. The Mississippi River and its major tributaries, the Missouri, Ohio, St. Francis, White, Arkansas, Yazoo, and Red-Old Rivers, drain 1,245,000 square miles in all or part of 31 states between the Rocky and Appalachian Mountains and part of two Canadian provinces. Below Cape Girardeau, MO, 53 miles above Ohio River, river bottomlands widen abruptly into an alluvial valley of 35,460 square miles which was originally subjected to flood overflow.

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A major part of the alluvial valley has been protected from floods by levees which confine floodflows within a floodplain having an average width of 5 miles. (See map of alluvial valley of Mississippi River, scale 1:500,000.) Observations made by Mississippi River Commission to Sep. 30, 1982, show approximate all-time maximum and minimum discharges between levees as follows: Cairo to White River, 2,000,000 and 70,000 cubic feet per second; thence to Red River, 2,150,000 and 90,000 cubic feet per second; thence to the Gulf of Mexico, 1,500,000 and 50,000 cubic feet per second in Mississippi River and 660,000 and 11,000 cubic feet per second in Atchafalaya River. As the 1927 floodflow was not con-fined between levees, maximum discharges recorded do not include entire flow of the 1927 flood, maximum of record below White River. High water and flood stages usually occur in late winter or early spring, but great floods such as that of 1937 occurred as early as January. Low water stages generally prevail from August to December. Extreme all-time high in stages recorded at representative gages (rounded to nearest foot) are 60 feet at Cairo, 49 feet at Memphis, 61 feet at Red River Landing, and 21 feet at New Orleans (Carrollton). The river is nontidal above Red River Landing where tidal amplitude rarely exceeds 0.1 foot during extreme low water.

Previous projects. For details see page 1944, Annual Report for 1932.

Existing project. The Mississippi River and Tributaries Project in the alluvial valley between Head of Passes, LA, and Cape Girardeau, MO, provides protection from floods by means of levees, floodwalls, floodways, reservoirs (in Yazoo and St. Francis Basins), bank stabilization, and channel improvements in and along the river and its tributaries and outlets insofar as affected by backwater of Mississippi River, including levee work on the main stem between Cape Girardeau and Rock Island. When completed, 23,621 square miles will be protected from the Mississippi River project flood. The project also provides for a 12- by 300-foot navigation channel between Baton Rouge, LA, and Cairo, IL; for salinity-control structures; and for channel realignment and improvement including bank stabilization and dikes to reduce flood heights, control natural tendency of river to lengthen by meandering, and protect levees from being destroyed by caving banks. Locations of major main stem Mississippi River improvements are shown in Table 41-A and those for off-main stem tributaries are shown in Table 41-B. Pertinent data on dams and lakes are shown in Table 41-C. Authorizing and incorporating legislation are shown in Tables 41-D and 41-E. Summary of

presently estimated Federal cost of authorized improvements is shown in Table 41-F. Construction of the existing project began in 1928 and has continued throughout ensuing years. Through Sep. 30, 2008, physical completion of the entire project is 88%.

Recommended modifications. None.

Local cooperation. The Flood Control Act of 1928, as amended, applies. Such requirements, in general, have been complied with by local interests.

Terminal facilities. See Port Series No. 21, 1990, for Ports of Baton Rouge and Lake Charles, LA; Port Series No. 20, 1990, for Port of New Orleans, LA; also folio of Flood Control and Navigation Maps of Mississippi River from Cairo, IL, to the Gulf of Mexico (59th edition), 1992.

Project cost. Total allotted for flood control, excluding maintenance charges through Aug. 18, 1941, chargeable under authorizations to Sep. 30, 2008, was \$8,684,253,825 (See Table 41-V.) (See also Tables 41-U, 41-W, and 41-X for additional financial statements.)

Alluvial Valley Mapping

General. Contoured quadrangles and general maps of the alluvial valley are available for departmental use and public distribution under prescribed regulations. Preparation, revision, and publication of quadrangle maps (scale 1:62,500) continued. Roadmap-type information brochures of principal portions of the overall project were published along with pamphlets on the subject of flood control and navigation. Maps and supplemental data sheets for active works were updated and published as required.

Work accomplished in the Districts:

New Orleans District— Supplemental funds were used in FY 08 for a task order to create a comprehensive digital GIS database of all quads that have been converted from hardcopy to digital format. This database will be used for CADD/GIS mapping purposes along the Mississippi River Alluvial Valley. Funds were also used in FY 08 to support flying aerial imagery for the Atchafalaya River Basin area which includes portions of the alluvial valley. The aerial imagery will support map compilation. In addition, the digital conversion of the Lac Des Allemands 15-minute quadrangle map was accomplished in FY 08.

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Memphis District—There were no revisions to 1:62,500 scale quadrangle maps in FY 08. There were 4,850 square miles of half-meter pixel, 1:12000 scale digital color orthophotography flown in FY 08.

Vicksburg District—There were no revisions to 1:62,500 scale quadrangle maps in FY 08. There were black and white aerial photography flown in FY 08 from Mississippi River mile (RM) 617.0 to RM 320.0.

Floods

Streamflow observations during the fiscal year follow:

Memphis District— Mississippi River crest stage of 53.8 feet at Cairo gage on March 25, 2008, and maximum discharge of 1,372,000 cubic feet per second (cfs) occurred at Hickman, KY, on March 26, 2008; a crest stage of 37.7 feet and a maximum discharge of 1,424,000 cfs at Memphis on April 19, 2008.

Vicksburg District—The Mississippi River at Vicksburg experienced its highest level in 35 years and the seventh highest stage of record during FY 2008. The stage at Vicksburg, MS, remained above flood for 43 consecutive days. Peak stages and discharges on the Vicksburg District's reach of the Mississippi River were as follows: Arkansas City, 45.4 feet on April 15, 2008, and maximum discharge of 1,730,000 cfs; Vicksburg, 51.0 feet on April 22, 2008, and a maximum discharge of 1,840,000 cfs; and Natchez, 57.0 feet on April 23, 2008, and maximum discharge of 1,800,000 cfs.

New Orleans District—On the Mississippi River, the Red River Landing gage recorded a maximum stage of 60.7 feet, National Geodetic Vertical Datum (NGVD), on April 24, 2008, and the New Orleans gage recorded a maximum stage of 17.0 feet, NGVD, April 26, 2008. On the Atchafalaya River, the Simmesport gage recorded a maximum stage of 41.3 feet, NGVD, on April 28, 2008.

Studies and Investigations

General investigations. Surveys and reports, authorized by laws and by Senate and House committee resolutions, were made as required and are discussed below. Collection and study of basic data continued.

A July 1997 resolution of the Committee on Transportation and Infrastructure of the U.S. House of Representatives authorized a study of flooding and other problems in the area west of the Atchafalaya Basin Floodway between Alexandria, Louisiana, and the Gulf

of Mexico. A reconnaissance study was initiated in FY 1998 and completed in FY 1999. See the FY 06 Annual Report for prior year details. In FY 08, project activities consisted of completion of hydrologic modeling of future without-project conditions and structural alternatives. In addition, the economic benefits were developed along with alternative cost estimates.

A May 1998 resolution of the Committee on Transportation and Infrastructure of the U.S. House of Representatives authorized a study of flooding and other problems in the area between Bayou Lafourche and the Mississippi River from Donaldsonville, Louisiana, to the Gulf of Mexico. A reconnaissance study was completed in FY 00. Feasibility study was initiated in FY 02. Geotechnical design and engineering design were transferred to the local sponsors as work in-kind efforts, and this work was initiated in FY 08. The anticipated timeframe for study completion is for the final feasibility study document presented to the Civil Works Review Board in June 2010 with the Final Environmental Impact Statement to be completed concurrently.

An April 1992 resolution of the Public Works and Transportation of the U.S. House of Representatives Committee authorized a study of flooding and other problems east of the Atchafalaya Basin Floodway between Morganza, Louisiana, and the Gulf of Mexico. A feasibility study was completed in FY 2002 recommending a Federal project. The Chief of Engineers letter was signed in August 2002 and supplemental in July 2003 adding work-in-kind. The Energy and Water Development Appropriation Act of 1995 and the Water Resources Development Act of 1996 directed an expedited study of a lock in the Houma Navigation Canal under the authority of the Morganza, Louisiana, and the Gulf of Mexico study. An interim feasibility study on the lock was completed in FY 1997 and was approved for preconstruction engineering and design in FY 2000. In FY 2004 the Energy and Water Development Appropriations Act authorized a portion of the project, Reach I, Segment 1. The local sponsor has awarded three contracts of this feature as work-in-kind services. FY 06 supplemental funds in the amount of \$7 million were received and are being used to advance PED work.

A June 1998 resolution of the Committee on Environment and Public Works of the U.S. Senate authorized a study of the multipurpose flood control and agricultural water supply problems in the Boeuf-Tensas Basin of southeast Arkansas. A feasibility study was initiated in FY 2000 and is continuing.

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A June 1973 resolution of the Committee on Public Works, U.S. Senate authorized a study to identify appropriate implementable measures to address flood control, water quality, and environmental needs throughout the Coldwater River Basin below Arkabutla Lake, MS. The feasibility study is continuing.

The Spring Bayou Area, LA, environmental restoration study includes an evaluation of improvements to partially restore/enhance ecosystem functions. The Feasibility Cost-Sharing Agreement was signed 25 May 2006. Feasibility studies have been initiated and are continuing.

A March 1996 Resolution U.S. House of Representatives Committee on Transportation and Infrastructure authorized a study, Memphis Metropolitan Area Storm Water Management, TN MS. The study area includes all or parts of five counties: Fayette, Shelby, and Tipton in Tennessee; DeSoto and Marshall in Mississippi. The area encompasses all or parts of six major drainage basins, covering approximately 2,600 square miles. The purpose of the study is to evaluate the need for improvements for flood control, ecosystem restoration, water quality, and related purposes associated with storm water runoff and watershed management in the area. The reconnaissance study was initiated in FY 2006. FY 2006 funds were used to initiate the study by reviewing existing hydrologic and hydraulic data for three drainage areas, Grays Creek, Marys Creek and Beaver Creek, and to determine any additional problems and opportunities within the study area.

A March 1996 Resolution U.S. House of Representatives Committee on Transportation and Infrastructure authorized a study of flooding and other problems in the area of Millington and Vicinity, TN. The study area encompasses the Big Creek drainage basin, an area of approximately 154 square miles. Although this study area was included in the Memphis Metro Reconnaissance study, a supplemental reconnaissance report was completed and approved in December 2002 as a basis for negotiating the Project Management Plan (PMP) and a Feasibility Cost Sharing Agreement (FCSA). The FCSA with Shelby County, TN and the Chickasaw Basin Authority was executed in September 2003. The feasibility study was initiated in January 2004 and possible solutions to the problems were investigated as well as possible opportunities for ecosystem restoration and development of recreation features. This study is scheduled for completion in FY 2009.

Mississippi River and Tributaries Levees

Operations and results during fiscal year. This feature consists of construction of new, and enlargement of existing, levees to approved grade and section; construction and restoration of levee berms; and construction, repair, and maintenance of roads on levees. Work accomplished is summarized in Table 41-N and further broken down as follows:

New Orleans District—Continued construction of levees in the Main Stem System. See Table 41-K. Supplemental funds for maintenance were received in the amount of \$81 million to perform emergency restoration and repair of the Mississippi River levee after Hurricane Katrina.

Vicksburg District—Continued construction of levees in the Main Stem System. See Table 41-L. Supplemental funds for maintenance were received in the amount of \$1.5 million. Contract was awarded for levee maintenance roadway surfacing material to improve all weather access and repair damages from flood flight. The WRDA of 1992 authorized the Lower Mississippi River Museum and Riverfront Interpretive Site (LMRMRIS). The design and construction of this project consists of regional visitor center incorporating the old MV *Mississippi* in conjunction with other potential riverfront development features planned by the city of Vicksburg, MS. In FY 08, Phase I, relocation of the MV *Mississippi* to its final location at the Vicksburg, MS, riverfront location was completed.

Memphis District—Continued construction of levees in the Main Stem System. See Table 41-M.

Condition as of Sep. 30. (See Tables 41-K, 41-L, 41-M, and 41-N.) There are 1,609.8 miles of levees authorized for the Mississippi River below Cape Girardeau, of which 1,603.0 miles are in place with 1,411.7 miles built to approved grade and section. The Main Stem Levee System consists of 2,215.7 miles, of which 2,208.9 miles are in place with 1,984.4 miles completed to approved grade and section. Included in this system are 85.4 miles of levees and structures along the south bank of Arkansas River miles (all completed); 59.2 along the south bank of Red River (all completed); and 449.2 miles in the Atchafalaya River Basin, with 449.2 miles in place and 416.0 miles completed to grade and section (see Table 41-N). Of the authorized 677.8 miles of berms and seepage control measures, 564.0 are complete. Graveled or hard-surfaced roads have been constructed on 2,094.8 miles of these levees.

There are an additional 1,511.0 miles of authorized tributary levees in the MR&T Project, of which 1,277.0 miles are in place, with 1,085.7 to approved grade and section. Berms have been completed on 15.3 miles and 970.1 miles of graveled or hard-surfaced roads have been constructed on the levees.

For summary of levee work see Table 41-N.

Mississippi River and Tributaries—Channel Improvements

Operations and results during fiscal year. Dredging: Mississippi River Main Stem — (See Table 41-G.) Work included dredging 10,371.1 cubic yards for maintenance of channel and harbor improvements. Minimum channel depth of 9 feet was maintained. Dredging was done with the following plant: Vicksburg District, channel maintenance was performed by government-owned dredge *Jadwin*. Memphis District channel maintenance dredging was performed by the Government-owned dustpan dredge *Hurley* and leased dustpan dredge *Pontchartrain*.

The MR&T Harbors maintained in Memphis District were Helena Harbor, Phillips County, AR, and Memphis Harbor (McKellar Lake), by leased cutter-head dredge. MR&T Harbors maintained in Vicksburg District were Greenville Harbor and Vicksburg Harbor by USACE dustpan dredge *Jadwin*.

Bank revetment and dikes: (See Table 41-H, 41-I, and 41-J.) Construction of 0.0 mile of new bank revetment and 30,588 squares of concrete mattress, for maintenance, along the Mississippi River was completed by Government plant and hired labor. Also, 0.84 mile of new dikes were constructed and required maintenance was performed.

Other work performed in the interest of navigation, supplementing maintenance dredging on Mississippi River between Cairo, IL, and Baton Rouge, LA, included removal of snags, wrecks, and obstructions; issuance of bulletins by the Vicksburg District providing information on available high-water velocities at selected locations; maintenance of bulletin boards showing daily gage readings at regular MRC gages; and contact pilot service furnishing navigation interests with latest information and advice on channel conditions and navigation interests. Cost of this work is given in Table 41-U.

Condition as of Sep. 30. In carrying out authorized channel improvement program between Baton Rouge and Cairo, 16 cutoffs were developed between 1933 and 1942. These, combined with chute channel development and alignment improvements, decreased channel length between these cities by about 170 miles. However, current velocities increased the attack on the banks and the river began to regain its length. As a result, the net shortening between 1933 and 1962 was 114 miles of the theoretical 170-mile cutoff.

There are now in place 1,051.38 miles of operative bank revetment and 326.78 miles of dikes on the lower Mississippi River. This amount of channel stabilization should prevent the river from regaining much more of its length due to meandering. A navigation channel 9 by 300 feet is being accomplished by revetment and dikes and maintained by dredging as required during the low-water season. Due to growing effectiveness of channel improvement program, average maintenance dredging requirements are steadily being reduced, and an increase in navigable depth is being obtained. Approximately 143.4 miles of foreshore protection have been constructed along the lower Mississippi River.

There are 89.4 miles of revetment and 5.9 miles of dikes on tributary channels as listed in Tables 41-H, 41-I, and 41-J.

New Orleans District

ATCHAFALAYA BASIN, LA

Operations and results during fiscal year. New work by hired labor: Real estate activities and planning for construction were continued.

Construction of levee enlargements and floodwalls continued on the east and west protection levees, and levees west of Berwick.

In FY 08, one contract was completed for levee gap closures on W-124 on the west bank levee protection in the vicinity of Berwick. There are four contracts currently under construction. These contracts include W-102 and W-96, Phase A on the West Atchafalaya Basin Protection Levee and West Bayou Sale Gordy, Phase A in the area west of Berwick, and E-58 on the East Atchafalaya Basin Protection Levee.

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Maintenance by hired labor: Operation and maintenance of Bayou Boeuf, Berwick and Bayou Sorrel Locks, the Morganza, Charenton and East and West Calumet control structures, condition and operational studies, and the water control management activities were continued. The St. Mary Parish Government cut gaps in the levees to drain floodwaters after the passing of Hurricanes Gustav and Ike. Levee gap repairs will be completed in FY 09.

Maintenance by contract (stone placement): To protect the East Atchafalaya Basin flood protection levee from erosion, stone was placed along the bank just below Bayou Sorrel Lock. Also, to protect riverine levees, stone hardpoints at Atchafalaya Station and Butte LaRose were established.

Berwick Harbor was dredged during the fall and summer of FY 08. Baton Rouge Harbor was dredged during the summer.

Condition as of Sep. 30. Construction was initiated Aug. 7, 1929, with commencement of the west protection levee from Bordelonville to Hamburg, LA. The project is 95% complete. The current estimated Federal cost is \$1,798,000,000 and non-Federal cost is \$11,000,000. Of the 449.2 miles of levees and floodwalls authorized for the Atchafalaya system, 416.0 miles are built to grade. See Table 41-K for status of levees.

Construction of the first 2.5 miles of the proposed 5 miles of channel was initiated in January 1958 and completed in July 1959, with 7,458,086 cubic yards excavated.

The remaining 2.5 miles were to be constructed when development of the initially constructed portion warrants expansion. Project expansion has not been necessary. Therefore, this feature was deauthorized on Nov. 2, 1979, under the provisions of Section 12, Public Law 93-251 (WRDA 74), as amended.

Major items remaining to be completed include completion of levees to grade and section, modification of existing structures, and construction of two freshwater distribution structures. Approximately 57.8 miles of bank stabilization have been placed as shown in Table 41-H.

Flood Control

ATCHAFALAYA BASIN FLOODWAY SYSTEM, LA

Location. The project lies in the lower part of the Atchafalaya Basin which is situated in south-central

Louisiana. It lies in parts of Iberville, Iberia, Point Coupee, St. Martin, St. Mary, and St. Landry Parishes. Further, it is limited to the part of the Atchafalaya River Basin that has been confined between guide levees that are about 15 miles apart. The northern boundary, west of the Atchafalaya River, lies along the south right-of-way line for the Union-Pacific Railroad near the south side of U.S. Highway 190 between the West Atchafalaya Basin Protection Levee (WABPL) and the west limits of the town of Krotz Springs, thence southerly along the west limits of the town and easterly along the south limits of the town to the Atchafalaya River; east of the Atchafalaya River it lies along the southern right-of-way line for the Union-Pacific Railroad. The eastern and western boundaries lie at the floodside toe of the East Atchafalaya Basin Protection Levee (EABPL) and WABPL, respectively. The area within these limits has been calculated at about 595,000 acres.

Existing project. This project was authorized by the Supplemental Appropriations Act of 1985, Public Law 99-88. The project was reauthorized and amended by Section 601 of the Water Resources Development Act of 1986, Public Law 99-662 (hereafter WRDA 1986). The U.S. Army Corps of Engineers, New Orleans District, completed a comprehensive feasibility study report for ABFS in January 1982 that recommended implementation for three separable elements including land acquisition, recreation, and water management units. Funding for the acquisition of the real estate feature made available by the Energy and Water Appropriations Bill of 1988, Public Law 100-202.

To date, approximately 116,802 acres in developmental control and environmental easements have been acquired, leaving a balance of approximately 230,000 acres to acquire. The Government has acquired 47,084 acres in fee, excluding minerals, from willing sellers. The recreation portion includes boat landings, canoe trails, 3-state type park facilities, project visitor center, primitive campgrounds, etc. Through FY 08, construction has begun on the Myette Point Boat Landing. Preliminary planning has been initiated for Bayou Sorrel, Krotz Springs, and Butte LaRose boat landings. Construction has been completed for the Simmesport Boat Landing. Local support exists for a regional visitor center in Morgan City, LA. Construction began in FY 06 and will continue in FY 10 on the Buffalo Cove Pilot Water Management Unit. The Supplemental Environmental Impact Statement for Henderson Water Management Unit, which includes the ABFS Recreation Feature, was initiated in FY 06.

Operations and results during fiscal year.

Continued operations of previously acquired easement and fee lands including easement inspections, outreach, natural resource management, and consumptive and nonconsumptive public access programs were conducted throughout the year.

Local cooperation. Various Design Agreements and PPAs will be required between the Corps and the non-Federal sponsor for project implementation. To date, a PPA has been executed between the Federal Government and the Louisiana Department of Natural Resources for the construction and OMRR&R of the Buffalo Cove project, as well as PPAs between the Government and Avoyelles Parish Police Jury and St. Mary Parish Government for Simmesport and Myette Point Boat Landings, respectively. In addition, several design agreements have been executed between the Government and local parishes for recreation planning.

Condition as of Sep 30. Total Project cost is \$466,182,000 with an estimated Federal cost of \$387,366,000 and a non-Federal cost of \$78,186,000. Through FY 08, \$127,048,000 has been expended.

Water Management Unit (WMU) construction (Buffalo Cove) was initiated in FY 06 and is anticipated to be complete in FY 10. An SEIS, inclusive of recreation, is underway for all five approved WMUs within the ABFS project area. Recreation features are being advanced as described above.

Public access efforts were affected with passage of WRDA 2007. Cap on expenditure (\$32M) was deleted retroactively and authorization for fee purchase of an additional 20,000 acres was provided. This legislation also gave authority to consider Eagle Point Park and the town of Melville, LA, as alternate recreation sites.

BAYOU COCODRIE AND TRIBUTARIES, LA

Operations and results during fiscal year. Maintenance by hired labor consisted of water control management.

Condition as of Sep. 30. Construction was initiated in June 1946 and is 57% complete, based on the current estimated Federal cost of \$20,400,000 and non-Federal cost of \$323,000. See page 2031, Annual Report for 1961, for description of completed work.

Work required to complete the project consists of enlargement of 13.5 miles of upper Bayou Boeuf, channel improvement of 25.3 miles of Bayou Cocodrie, enlargement of Bayou Courtableau from Washington, LA, to the west protection levee, and additional culverts through the west protection levee at 100% Federal cost in lieu of the previously authorized diversion channel from Washington to the Bayou Courtableau drainage structure.

With the termination of the Eastern Rapides and South Central Avoyelles project, it has become necessary to provide an adequate outlet structure solely for the Bayou Cocodrie and Tributaries project. The economic effects of this change along with current benefits estimates have caused the benefit-cost ratio for the project to be less than unity. As a result, the project has now been classified as inactive. If economic conditions change, the project could be reactivated.

BONNET CARRÉ SPILLWAY, LA

Operations and results during fiscal year. Maintenance by hired labor: Condition and operation studies, water control management, and ordinary maintenance of the control structure and spillway continued.

Condition as of Sep. 30. Construction of the spillway was initiated in FY 1929. The control structure was completed in 1931, levees were completed in 1932, and utility crossings were completed in 1936. The cost of the completed work is \$14,212,200.

It was necessary to operate the structure to reduce flood stages in 1937, 1945, 1950, 1973, 1975, 1979, 1983, 1997, and 2008. The structure was operated in 1994 to transfer freshwater from the Mississippi River to Lake Pontchartrain. The structure was operated from April 11 until May 8, 2008, to reduce flood stages.

Sandblasting and painting of the structure will be performed in 2009 with one contract awarded in 2008 and another to be awarded in 2009.

Restoration of the east guide levee from U.S. Hwy 61 to Lake Pontchartrain was completed in 2005.

Natural Resources and Recreation Project Master Plan was approved and implemented in 1998. Operational Management Plan is under development. A staff of three Park Rangers is now stationed at the spillway to implement the recreation and natural resource programs.

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OLD RIVER, LA

Operations and results during fiscal year.

Maintenance by hired labor consisted of operation and maintenance of the lock and control structures as required, condition and operation studies, water control management, maintenance of cleared areas, levee shaping, and engineering studies.

Natural Resources and Recreation Master Plan was completed. Operations and maintenance activity includes development of Old River Cooperative Visitor Center.

In FY 08, completed contracts include: modify emergency stoplog machinery, install PLC system, repair emergency stoplogs, fabricate spare parts for miter gates, repair canal floating guidewall at Old River Lock, and repair stilling basin expansion joints at Overbank structure. Continued contract to fabricate miter gates at Old River Lock and repair fracture critical welds on emergency bulkheads for Old River Auxiliary Control Structure. Awarded contracts to dredge Old River Lock forebay and install new miter gates at Old River Lock.

Condition as of Sep. 30. Construction began September 1955 and is complete at a Federal cost of \$292,273,000. Principal items completed are as follows: Low-sill structure, June 1959; overbank structure, October 1959; auxiliary structure, September 1986; levees and levee enlargements, October 1963; inflow and outflow channels for the Lowsill structure, February 1961; inflow and outflow channels for the auxiliary structure, August 1987; navigation lock completed December 1962 and opened to navigation March 1963, at which time Old River was closed to navigation with a rock and earthfill dam; and highway approaches and bridge over the lock completed March 1965. Approximately 9.4 miles of bank protection have been constructed at the inflow and outflow channels. (See Table 41-H for details of bank protection.)

Salinity Control Structures

MISSISSIPPI DELTA REGION, LA

CAERNARVON FRESHWATER DIVERSION STRUCTURE, BRAITHWATE, LA

Location. The Caernarvon structure is constructed in the Mississippi River Levee on the left descending bank at mile 81 AHP, just below the St. Bernard-Plaquemines Parish line.

Existing project. The Caernarvon Freshwater Diversion Feature of the Miss. Delta Region Project is capable of diverting up to 8,000 cfs of River water into the Breton Sound Estuary for fish and wildlife habitat enhancement. River stages and the fresh water needs of the estuary, determined by monitoring data, establish the actual quantities to be diverted.

Local cooperation. The Local Cooperation Agreement with the State of Louisiana was signed in June 1987. Cost sharing for initial construction and ongoing operations and maintenance is 75% Federal and 25% non-Federal. The project is operated and maintained by Plaquemines Parish, under the direction of the LA Department of Natural Resources.

Condition as of Sep. 30. Construction began in 1988 and was completed in 1991, at a Federal cost of \$17,550,051 and a non-Federal cost of \$5,850,017. Diversions have been ongoing, as needed, since August 1991. The goal of fish and wildlife habitat improvement has been met or exceeded, most notably in the areas of seed oyster availability on the public oyster grounds, a large variety and volume of recreational fishing and duck hunting.

DAVIS POND FRESHWATER DIVERSION STRUCTURE, LA

Location. The Davis Pond structure is constructed in the Mississippi River Levee on the right descending bank at mile 118 AHP, in St. Charles Parish, two miles Luling, LA.

Existing project. The Davis Pond Freshwater Diversion Feature of the Miss. Delta Region Project will be capable of diverting up to 10,650 cfs of River water into the Barataria Bay Estuary for fish and wildlife habitat enhancement. Fresh water needs of the estuary, determined by monitoring data, will establish the actual quantities diverted.

Local cooperation. The Project Cooperation Agreement was signed in April 1993 with the State of Louisiana. Cost sharing for initial construction and ongoing operations and maintenance is 75% Federal and 25% non-Federal. The project will be operated and maintained by St. Charles Parish, under the direction of the LA Department of Natural Resources.

Condition as of Sep. 30. Construction began in 1996 and was substantially completed in 2002, at an estimated Federal Cost of \$116,000,000 and a non-Federal cost of \$39,000,000 for the Construction Phase

of this Feature. Diversions have been ongoing since August 2002 with a completion date estimated to be in 2010. Sheet pile installation to raise the west guide levee was completed in 2007, and Phase I of modifications to the outfall area were completed in July 2008. Additional modifications to the outfall area will be completed in 2009, along with improvements to the west guide levee.

Operations of the structure will be officially transferred to the State beginning FY 09. At that time, postconstruction monitoring will begin and continue for 4 years.

Vicksburg District

LOWER ARKANSAS BASIN, AR

Condition as of Sep. 30. Arkansas River levees. A total of 56.2 miles of the 61.5 miles of north bank levees and all of the 85.4 miles of south bank levees have been completed to approved grade and section. These levees above mile 36.1 are protected by bank-protection works constructed as a feature of project for Arkansas River and Tributaries, AR and OK. For present status of this work, see report of Little Rock District. Below mile 36.1, needed bank protection is constructed with project maintenance funds. Little Bayou Meto gates and lifting mechanism were replaced during FY 88. Big Bayou Meto Gate operating mechanisms replaced FY 94, 95, 96.

LOWER RED RIVER SOUTH BANK RED RIVER LEVEES, LA

Operations and results during fiscal year. Maintenance by hired labor consisted of water control management.

Condition as of Sep. 30. All of the 59.2 miles of levees authorized are completed to approved grade and section.

TENSAS BASIN, AR AND LA

(a) **Boeuf and Tensas Rivers, and Bayou Macon, AR and LA.**

Operations and results during fiscal year. Planning and design on project features are complete. The Lake Chicot Pumping Plant and related features are complete and in operation.

Condition as of Sep. 30. Lake Chicot Pumping Plant performed maintenance work to include painting of trash rakes, caulking to building and roof repairs, as well as maintenance to cranes.

(b) **Red River backwater area.**

Operations and results during fiscal year. Routine operation and maintenance was performed on the Tensas-Cocodrie Pumping Plant along with construction of mile 0.2 setback.

Condition as of Sep. 30. A contract for bank stabilization was awarded.

YAZOO BASIN, MS

Operations and results during fiscal year.

(a) **Big Sunflower River, etc.** The Project is authorized by the Flood Control Acts of 1944, 1946, 1950, 1962, and 1965. Swan Lake Levees plans and specifications were under preparation in FY 08. Main Canal and Black Bayou are complete. Item 66B channel relocation. Phase I contract is under construction. Plans and specifications are being prepared for Phase II. Ten sedimentation reduction structures were completed as Phase I, and a contract was awarded for 14 additional structures as Phase II.

Mitigation for Upper Steele Projects. Mitigation for the unavoidable environmental losses is now underway. Approximately 5,519 acres of cleared lands have been obtained in the Yazoo Basin to mitigate the environmental losses resulting from construction of the Upper Steele Bayou Projects. Most of this land has been reforested and will be managed for wetlands, and terrestrial resources. All lands acquired for mitigation are from willing sellers to offset environmental losses from this project.

(b) **Flood Control Reservoirs**

(1) **Arkabutla Lake.** (See Table 41-C.) The dam and appurtenant structures were maintained and operated. Clearing of tributary streams in the lake area was

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continued. Maximum pool elevation in the lake was 238.3 feet, NGVD, on May 17, 2008, and storage in flood control pool was 526,000 acre-feet. Peak 24-hour inflow was 30,950 cfs on Apr. 5, 2008. On Sep. 30, 2007, the pool elevation was 217.1 feet, NGVD, and storage in the flood control pool was 89,400 acre-feet.

(2) **Enid Lake.** (See Table 41-C.) The dam and appurtenant structures were maintained and operated. Rehabilitation of boat channels and snagging and clearing of tributary streams in the lake area continued. Maximum pool elevation in the lake was 2,543.2 feet, NGVD, on Jun. 4, 2008, when storage in the flood control pool was 324,900 acre-feet. Peak 24-hour inflow was 12,900 cfs on Apr. 5, 2008. On Sep. 30, 2008, pool elevation was 246.3 feet NGVD and storage in the flood control pool was 214,700 acre-feet. A total of 4,500 acre-feet of storage in conservation pool was reallocated to municipal and industrial water supply in June 1998.

(3) **Grenada Lake.** (See Table 41-C.) Construction of remaining public-use facilities has been deferred pending development of cost-sharing agreements with local interests for construction and non-Federal operation and maintenance, consistent with projects for which recreation facilities are being constructed under the provisions of the Federal Water Project Recreational Act of 1965 (Public Law 89-72), as amended. Maximum pool elevation in the lake was 214.2 feet, NGVD, on Jun 19, 2008, when storage in the flood control pool was 521,200 acre-feet. Peak 24-hour inflow was 20,450 cfs on Apr 5, 2008. On Sep. 30, 2007, the pool elevation was 208.2 feet NGVD and storage in the flood control pool was 340,400 acre-feet.

(4) **Sardis Lake** (See Table 41-C.) The dam and appurtenant structures were maintained and operated. Clearing of tributary streams in the lake area continued. Maximum pool elevation in the lake was 268.0 feet, NGVD, on May 21, 2008, when storage in the flood control pool was 904,300 acre-feet. Peak 24-hour inflow was 17,050 cfs on Apr 5, 2008. On Sep. 30, 2007, the pool elevation was 251.6 feet NGVD and storage in the flood control pool was 374.0 acre-feet.

(c) **Greenwood, Yazoo City and Belzoni protection works.** Contract forces continued operation and maintenance of levees, drainage facilities, and pumping plant.

(d) **Main stem.** Contract forces continued operation and maintenance of channels, levees, and drainage facilities.

(e) **Reformulation Study.** The uncompleted portions of the Yazoo Basin construction program are currently being reformulated. This reformulation study includes investigations of the engineering, economic, and environmental aspects of the basin and is being accomplished in 4 phases. These studies will evaluate reasonable arrays of alternatives to the project features that remained after construction of items that were budgeted and scheduled for award in FY 90. The Upper Steele Bayou and Upper Yazoo Projects reports were approved on May 25, 1993 and Jun. 21, 1994, respectively. Concerning the final 2 phases, the Yazoo Backwater Reformulation Study includes nonstructural, structural, and combination plans. Nonstructural features include conservation and water management easements and reforestation of cleared agricultural lands. Structural features include a pump station and levee alternative. The Yazoo Backwater Reformulation Study's draft report and Draft Supplemental Environmental Impact Statement (SEIS) were released for public review in Sep. 2000. The Vicksburg District reviewed and incorporated public and agency comments into the Final Report and Final SEIS. The Final Report was released in Nov. 2007 with a public comment period to be open until Jan. 2008. In Feb 2008, EPA notified the Corps that they were considering a Section 404(c) veto of this project. The District worked to satisfy EPA concerns, but in the end, EPA stated there were unacceptable adverse impacts on fishery and wildlife. The final determination under Section 404(c) of the Clean Water Act was signed on Aug 31, 2008, by B. H. Grumbles, Assistant Administrator for Water. The Yazoo Tributaries Reformulation Study is evaluating flood control requirements on nine project features. Study efforts were suspended in 2000 and were reinitiated in FY 08.

(f) **Delta Headwaters Project.** The Delta Headwaters Project (DHP), a joint project with the USDA NRCS was initiated by FY 85 appropriations as a continuation on streambank erosion control efforts. The purpose of the project is to demonstrate the applicability of a systems approach to the design of erosion, sedimentation, and flood control works by applying this approach to 16 demonstration watersheds in the Yazoo Basin hill area. During FY 07, work continued in the DHP toward development of the systems plans and implementation of a monitoring program. Cumulative through FY 08, the District has completed the construction of 206 low drop grade control structures, 205 miles of bank stabilization, 17 miles of channel improvement, 72 box culverts, 6 high drop grade control structures, 1,417 riser pipe grade control structures, 8 floodwater retarding structures, 1 debris removal, and 9 miles of levees.

(h) **Tributaries.** Project to be reformulated.

(i) **Upper Yazoo Projects.** The first 13 items of channel improvement, approximately 116 miles, and nine drainage structures have been completed. This work extends from Yazoo City, Mississippi, to Philipp, Mississippi.

The Fort Pemberton Flood Control Structure was completed on Apr. 29, 1991.

Roebuck Lake and Fort Loring water control structures and Tchula Lake weirs were completed in FY 95.

Item 6A was completed in Sep 08. Design efforts continue for Channel Item 7.

The Alligator-Catfish water control structure was completed in FY 98. This structure has been renamed the J. Tol Thomas Water Control Structure.

Mitigation for Upper Yazoo Projects. Mitigation for the environmental impacts is now underway. Approximately 10,919 acres of cleared, frequently flooded agricultural lands have been obtained in the Yazoo Basin area of Mississippi to mitigate the environmental losses resulting from construction of the Upper Yazoo Projects, Big Sand Creek, Pelucia Creek, and Ascalmore-Tippo Bayou construction projects. This land has been reforested and will be managed for terrestrial, aquatic, wetlands, and waterfowl. A total of 17,000 acres of mitigation will be acquired from willing sellers for this project.

(j) **Yazoo Basin backwater.** The Yazoo area backwater levees are complete, including the backwater levee from the Mississippi River levee to the west levee of the lower Auxiliary Channel, the Little Sunflower River drainage structure, and the connecting channel from the Steele Bayou drainage structure to the Big Sunflower River.

The Satartia area backwater levee is complete. Rocky Bayou area levee Items 1A and 1B have been completed. Completed backwater levees will require raising to provide the degree of protection intended based on the project design flow line developed for the Mississippi River following the 1973 flood.

Four Greentree Reservoirs and pumping stations have been constructed to mitigate for the waterfowl impacts of the project. Operation and maintenance is continuing on the pump stations.

Mitigation of the terrestrial impacts is now underway. Approximately 8,800 acres of cleared, frequently flooded, agricultural lands have been obtained in the Yazoo Backwater area of Mississippi to mitigate the terrestrial losses resulting from construction and operation of the Yazoo Area and Satartia Area levees projects. This land has been reforested and is managed for terrestrial wildlife by the Mississippi Department of Wildlife, Fisheries and Parks. An additional 3,848 acres of mitigation is being considered as part of the Yazoo Backwater Reformulation Project to complete the mitigation for the Yazoo and Satartia Area levees.

Interpretive and Education Center, Theodore Roosevelt National Wildlife Refuge Complex, MS, was authorized by Consolidated Appropriations Act 2004, Section 145, Public Law 108-199, that states: "The Secretary of the Army, acting through the Chief of Engineers, in consultation with the Secretary (Interior) shall design and construct a Multiagency wildlife and environmental interpretive and education center at a location in the South Delta area of the State (MS) to be determined by a site selection and feasibility study conducted by the Secretary of the Army." The South Delta region is defined in the legislation as Leflore, Holmes, Humphreys, Sharkey, Warren, and Washington Counties of Mississippi. Phase I included site selection and feasibility study, which have been completed. The study identified 15 potential center locations. Of these 15 locations, the highest scoring 5 sites are being further analyzed. Phase II is now underway. The Environmental Assessment and Real Estate Design Memorandum are complete. Currently, acquisition of the top scoring site is underway concurrent with development of the Design Documentation Report on which plans and specifications will be developed.

Condition as of Sep. 30. The first feature of Yazoo Basin project was started in 1936, and the total project is about 55% complete.

Memphis District

BAYOU METO BASIN, AR

Location. Project is located in east central Arkansas in Lonoke, Pulaski, Prairie, Jefferson, and Arkansas Counties.

Existing project. The major problems are agricultural flooding, loss of environmental resources, and the depletion of the alluvial aquifer, which provides essentially all the water used for agricultural irrigation and

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baitfish farming and supports area wetlands. Features being evaluated include diversion of excess water from the Arkansas River with delivery through a system of new canals, existing ditches, and pipelines to the water depleted areas; channel improvements and pumping station(s) to provide outlets for reduced flooding; waterfowl conservation and management measures; and other waterfowl enhancement features. The sponsor is the Arkansas Natural Resources Commission, partnering with the Bayou Meto Water Management District.

Operations and results during fiscal year. Funds were included in FY 2008 to continue development of plans and specifications for construction.

Condition as of Sep. 30. The ASA(CW) approved the General Reevaluation Report on September 24, 2007. The Record of Decision was signed on November 13, 2007.

Local interests have formed an entity capable of providing the legal and financial assurances for project implementation and they desire the earliest possible project completion.

FRANCIS BLAND FLOODWAY DITCH (EIGHT MILE CREEK), ARKANSAS

Location. The project is located in the City of Paragould, AR.

Existing project. The existing project consists of 12.5 miles of channel improvements. Eight miles of channel enlargement will occur in the rural downstream area of Paragould. Three and a half miles of enlargement will occur in the City of Paragould along with one mile of channel riprap/stabilization. The project will provide 100-year flood protection within most area of the city of Paragould.

Local cooperation. A project Cooperation Agreement (PCA) was assigned in June 1996.

Operations and results during fiscal year. Hydraulic analysis was conducted and data submitted to FEMA to update FEMA's flood plain maps for Greene County. FEMA asked for additional hydraulic data for flood plain map revisions via a Letter of Map Revision. Coordination began with Arkansas Highway and Transportation Department (AHTD) on improvements to the Highway 49 Bridge over Francis Bland Floodway with the city of Paragould. These bridge improvements

are not part of the Corps project, but coordination is necessary to ensure project features of the channel are returned to specifications after construction.

Conditions as of Sep. 30. Construction is underway on the Highway 49 bridge. Coordination is continuing with FEMA for the revision of the Greene County flood plain maps via Letter of Map Revision.

GERMANTOWN, TN

Location. The study area is located in the city of Germantown, in Shelby County, Tennessee.

Existing project. The study investigated possible solutions to the flooding, erosion, and water quality problems impacting three drainage basins: Miller Farms Ditch and Lateral D, tributaries to the Wolf River and Howard Road Outfall, a tributary to Nonconnah Creek.

Operations and results during fiscal year. Only one of the three drainage basins investigated (Lateral D) resulted in a plan that is economically feasible; however, the outputs for this plan (erosion control) are not high priority outputs and not budgetable. Therefore, the feasibility study was terminated and the report was not processed for approval. The estimated cost of the Lateral D plan is \$6.0 million and the benefit to cost ratio is 1.44.

Condition as of Sep. 30. The city of Germantown attempted to obtain authority from Congress to construct not only Lateral D, but also locally developed plans for Miller Farms, Howard Road, and other drainage basins in the area, by requesting a modification to Section 219 of WRDA 1992, as amended. Section 1003 of WRDA 2007 authorizes the study of these basins from a Section 14, Emergency Streambank Protection standpoint, but does not authorize provisions for flood damage reduction. Funding has been appropriated for the Lateral D basin and a Section 14 study was initiated in FY 2007.

GRAND PRAIRIE REGION, AR

Location. Project is primarily located in Arkansas and Prairie Counties and a small portion in Lonoke and Monroe Counties.

Existing project. This project will provide for agricultural water supply, ground water protection, and fish and wildlife restoration and enhancement. The project includes a major pumping station, conveyance

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channels, and conservation measures for the Grand Prairie area. The sponsors are the State of Arkansas and the White River Regional Irrigation Water Distribution District.

Operations and results during fiscal year. FY 2008 funds were used for termination costs of the pumping station contract (including completion of the fabrication/delivery of the pumps and motors); final development of a Programmatic Agreement between the Corps and the appropriate American Indian tribes to address cultural requirements; and develop the Administrative Record and other court documents for the lawsuit. Construction has been fully suspended on the pumping station, which is about 20% complete.

Condition as of Sep. 30. Construction on the pumping station began during the summer of FY 2005 and was scheduled for completion in September 2007. However, in July 2006, an injunction was issued due to a lawsuit related to the Endangered Species Act and the ivory-billed woodpecker habitat. After several months of legal processes and submissions to the Court, a hearing was conducted on the lawsuit on April 29, 2008. The Judge issued an order on August 8, 2008, and ruled in favor of the Defendants (Department of Army and Department of Interior) on all allegations, except with regard to the cavity monitoring requirements for the woodpecker. The matter was remanded to the U.S. Fish and Wildlife Service to address the deficiencies. On October 27, 2008, Department of Justice submitted the Notice of Satisfaction of Remand to the Court and indicated to the Judge that the injunction had expired and the Corps intended to resume work on the project on November 3, 2008.

MISSISSIPPI RIVER LEVEES

Operations and results during fiscal year. Minor maintenance on levees is performed by the local interests and major maintenance is performed as required for slide repairs, road rehabilitation, and other similar work by the U.S. Army Corps of Engineers.

Mississippi River Levees Construction. St. Johns - New Madrid box culverts and levee closure were suspended in September 2007 due to unfavorable court ruling, and funds were used in FY 08 to secure the site and initiate plans and specifications for site restoration ordered by the court. Installation of relief wells were completed at Nash and Caruthersville, MO.

Construction was continued on FY 07 awards for relief wells at Farrell, MS; Badgers-Cottonwood Point, AR; and West Memphis, AR. FY 08 awards were for relief wells at Council Bend, Wilson, and Barfield, AR; and at Trotters and Delta, MS. FY 08 awards were also made for a water berm at Gammon, AR, and Phase II Riverfront Improvements at New Madrid, MO.

Mississippi River Levees Maintenance. Operated and maintained Drinkwater II Pumping Station; conducted flood-fight activities; completed construction contracts for levee slope stabilization (lime/fly-ash injection) at Gammon, AR, and West Memphis, AR; and initiated construction contracts for a trashrack at Mounds Creek Culvert, IL, and replacement of a culvert on the Cache Levee, IL.

CHANNEL IMPROVEMENT

Operations and results during fiscal year. Maintenance on dikes and revetments were performed by the U.S. Army Corps of Engineers. Continued construction of new dikes and revetments in the Main Stem Mississippi River System. See Table 41-J.

Channel improvement. Stone Dike Construction at various locations (Westover, AR; Plum Point, TN; and Norfolk Star, MS), awarded July 2008, 60% complete as of September 30, 2008. Construction of 1.01 miles of new bank revetment and 31,788 squares of concrete mattress for maintenance along the Mississippi River was completed by Government plant and hired labor. Also, 1.40 miles of new dikes were constructed and required maintenance was performed.

ST. FRANCIS BASIN, AR AND MO

Operations and results during fiscal year.

Construction

A contract for construction of County Road Bridge 20.01 was awarded in August 2007 and is complete. The construction of Fifteen Mile Bayou channel enlargement is 75% completed.

Condition as of Sep. 30. Project initiated 1937. Project is 90% complete.

Maintenance

Operated and maintained W. G. Huxtable Pumping Plant and DD17 Pumping Station in AR; conducted flood-fight activities; completed construction contracts for Levee Gravel Resurfacing on the Right Hand Chute Little River Levee in AR and Above Halesdie Ditch, AR, channel cleanout; continued construction contract for sandblasting and painting the floodgates and trash barrier at the W. G. Huxtable Pumping Plant, AR; initiated construction of Below Highway 90, AR, channel cleanout, Big Lake, AR, Control Structures – Electrical Controls Renovation, Castor River, MO, channel clearing and snagging, and Glennonville, MO, Scour Repair; and initiated and completed removal of submerged culvert at Castor River Block Hole, MO, and replacement of a culvert on Big Slough Ditch, AR.

ST. JOHNS BAYOU AND NEW MADRID FLOODWAY

Location. This flood control project is located in the bootheel of MO. It covers two drainage basins adjacent to the Mississippi River: the St. Johns Bayou Basin (450 sq mi) and the New Madrid Floodway (180 sq mi).

Existing project. The First Phase of the authorized project includes 24 miles of channel improvements, pumping stations, all seasonal ponding easements, and appropriate mitigation features. The First Phase project has a benefit-cost ratio of 1.11 to one, with average annual benefits of \$462,000 (Final RSEIS 2, March 2006, p. 135). St. John Levee and Drainage District is the cost-sharing sponsor. The current estimated cost for programmed work is \$50,100,000 Federal and \$16,500,000 non-Federal.

Condition as of Sep. 30. Remaining construction work on the First Phase includes approximately 19.7 miles of channel improvements and two pumping stations. Water Quality Certification was issued for the project in Jun 2003. A contract was awarded for the New Madrid pumping station in Sep 2004. Construction was not initiated due to a Complaint filed in Federal Court in Sep. 2004 which resulted in the production of an amended environmental NEPA document (RSEIS 2, March 2006). This document is resulted in a Record of Decision on May 23, 2006 and a notice to proceed was issued to the contractor on August 28, 2006. Construction was initiated in September 2006. The Federal Court ruled against the Corps on September 13, 2007,

and construction was suspended on September 14, 2007. A Notice of Appeal was filed on November 9, 2007, but on August 12, 2008, the acting SG announced that DOJ had decided not to pursue an appeal in the St. Johns Bayou-New Madrid Floodway case. A shutdown plan was implemented to stabilize the site, and site restoration plans and specifications were initiated.

WEST TENNESSEE TRIBUTARIES, TN

Location. The project is a flood control project located along the Obion and Forked Deer Rivers and tributaries in west Tennessee, in Weakley, Madison, Gibson, Obion, Dyer, Crockett, Lauderdale and Haywood Counties.

Existing project. The project consists of 225 miles of channel improvements on the Obion and Forked Deer Rivers and construction of 7.6 miles of levees to provide adequate drainage outlets and reduce flooding; 174 water control structures, 216 erosion control structures, 37 miles of water management connector channels to restore bottom-land hardwoods and fisheries; and the acquisition of 32,000 acres of mitigation lands. Approximately 41% of the channel improvements were completed prior to the project being halted due to environmentally based litigation. A Consent Order was reached in 1985 and construction resumed. However, the project was shut down due to the denial of water quality certification from the Tennessee Department of Environment and Conservation in 1990. Only 93 miles of the authorized channel improvements have been completed and 13,527 acres of the mitigation lands purchased.

Local cooperation. The project sponsor is the state of Tennessee acting through the West Tennessee River Basin Authority (WTRBA).

Operations and results during fiscal year. No contract awarded or completed during fiscal year.

Condition as of Sep. 30. WTRBA requested that the Corps undertake a reevaluation of the project. The reevaluation will focus on methods that reduce flood damages in environmentally acceptable manners and comply with the legal requirements of the Consent Order.

FY 2007 funds were used to research a potential reevaluation of the study. The West Tennessee Tributaries Project is 60% complete.

WHITE RIVER BACKWATER, AR

Operated and maintained Graham Burke Pumping Station and initiated construction contracts for replacement of the pumping station roof and replacement of the pumping station stoplogs and stoplog slots.

WOLF RIVER, MEMPHIS, TN

Location. The Wolf River is located in Hardeman, Fayette, and Shelby Counties, TN, and Tippah, Marshall, and Benton Counties, MS.

Existing project. The authorized project consists of six main channel weirs and eighteen tributary weirs for grade stabilization, two cutoff prevention weirs on the main channel, trails, a 2,100-acre and wildlife corridors in Shelby County, and three boat ramps (two in Shelby County and one in Fayette County.) Estimated annual benefits include over 2,144 annual habitat unit values and \$414,000 in recreational benefits. The project sponsors are Shelby County, Tennessee and the Chickasaw Basin Authority.

Operations and results during fiscal year. To date, all of the main channel stabilization weirs, one tributary weir, one cutoff prevention berm, and associated access roads have been constructed. FY 2007 funds were used to complete plans and specifications and fully fund construction for Item 3 (five tributary weirs). The contract for this work was awarded in July 2007 and construction completed in August 2008. This work completed the ecosystem restoration features of the project. In FY 2008, work was ongoing to complete the design and construction of approximately 2 miles of trails and lateral crossings (the easternmost segment proceeding west from Collierville-Arlington Road) and initiating the recreation component of the project.

Condition as of Sep. 30. Construction was completed on the first item of work in December 2005. The second item of work was completed in October 2006. The third item of work was completed in August 2008.

St. Louis District

Operations and results during fiscal year.

WAPPAPELLO LAKE, MISSOURI

Wappapello Lake. The dam and appurtenant structures were maintained and operated. Wappapello won the Natural Resources Project of the Year Award and received \$25,000 to construct a new shelter. Phase 1 of State Highway D-5 relocation bridge project was completed. The two remaining gatehouse service gates were rehabilitated and reinstalled. Maximum pool elevation was 389.00 feet, NGVD, on April 12, 2008, when storage utilized in the flood control pool was 486,684 acre-feet (78%). Peak 24-hour inflow was 110,436 cfs on March 19, 2008. On September 30, 2008, the pool elevation was 360.08 feet, NGVD, and storage utilized in the flood control pool was 33,152 acre-feet (6%). Heavy rainfall in the Wappapello region on March 18, 2008, created flooding. The spillway was within 5 feet of overtopping and washing away State Hwy T and multiple utilities located below the spillway. FY 08 War Supplement Natural Disaster funds of \$300,000 were received; \$188,211 was expended by September 30, 2008, on debris removal, facility cleaning, road repairs, and flood maintenance items.

On August 26, 2008, \$6.3 million was issued to MODOT for HWY 67 road raising/bridge project.

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TABLE 41-A MISSISSIPPI RIVER IMPROVEMENTS

Mileage Above Head of Passes	Locality	Improvement	Remarks
0-957 ¹	Head of Passes, LA-Cairo, IL	Dredging, revetment, and contract work	--
10-81	The Jump-New Orleans, LA	Main line levee, right bank	--
11-25	Baptiste Collette-Bayou Ostrica, LA	Local levees, left bank	--
118	Davis Pond, LA (formerly Myrtle Grove, LA)	Salinity control structure, right bank	Authorized by Public Law 89-298 (HD 308/74/1). Included in MS Delta Region, LA features. Postauthorization change report, approved June 1987.
81	Caernarvon, LA	Salinity control structure, left bank	Authorized by Public Law 89-298 (HD 308/74/1). Included in MS Delta Region, LA features.
44-91	Bohemia, LA-New Orleans, LA	Main line levee and floodwall, left bank	--
81-96	New Orleans, LA	Main line levee, right bank	Authorized by Public Law 81-516.
91-104	New Orleans, LA	Main line levee and floodwall, left bank	Authorized by Public Law 81-516.
96-279	New Orleans-Morganza, LA	Main line levee, right bank	--
104-234	New Orleans-Baton Rouge, LA	Main line levee, left bank	--
127-129	Bonnet Carré Floodway, LA	Regulating spillway, left bank	--
129	Mississippi-Louisiana Estuarine Areas, LA/MS (Bonnet Carré)	Salinity control structure, left bank	Authorized by Public Public Law 100-676
129-234	Bonnet Carré-Baton Rouge, LA	Main line levee, left bank	--
235	Baton Rouge Harbor	Devils Swamp barge channel	Modified by Public Law 87-874.
279-287	Morganza Floodway, LA	Regulating spillway, right bank	--
287-303	Morganza-Old River, LA	Main line levee, right bank	Extends up south bank of Old River to Barbre Landing.
303-314	Old River, LA control	Levee closure and enlargement, low and high water spillway structures, navigation lock, and approach channels, right bank	Authorized by Public Law 83-780.
314-572	Old River-Cypress Creek, AR	Main line levee, right bank	Joins Arkansas River, south bank levee.
437	Vicksburg Harbor, MS	Harbor extension and industrial fill	Authorized by Public Law 70-391. Modified by Public Laws 79-526 and 83-780.
437-721	Vicksburg-Lake View, MS	Main line levee, left bank	--

**TABLE 41-A MISSISSIPPI RIVER IMPROVEMENTS
(Continued)**

Mileage Above Head of Passes	Locality	Improvement	Remarks
490	Wilson Point, LA	Pumping Plant and drainage structure, right bank	Unpublished Vicksburg District's MRC report approved Apr. 14, 1966. ²
537	Greenville Harbor, MS	Harbor improvements and port area	Authorized by Public Law 85-500.
646	Long Lake, Helena, AR	Culvert and floodgate, right bank	Authorized by Public Law 79-526. ²
605-666	Henrico-Helena, AR	Main line levee and floodwall, right bank	--
672-993	St. Francis River-Commerce, MO ³	Main line levee, right bank	--
722-725	Industrial levee (Ensley Bottoms)	Levee and pumping station	--
721-734	Memphis Harbor, TN	Closure of Tennessee Chute, industrial fill, levee, harbor channels, etc.	Authorized by Public Law 79-526.
803-873	Tiptonville-Obion River	Main line levee, left bank, levee extension, and diversion Obion River	Modified by Acts of Jul. 24, 1946 and Dec. 23, 1971.
857	Near Mud Lake, TN	Pumping station and adjacent channel improvements	Authorized Dec. 15 and 17, 1970 under Sec. 201 of Oct. 27, 1965 FC Act.
890	St. Johns Bayou, MO	Drainage floodgate and levee closure	Modified by Jul. 24, 1946 Act.
890	New Madrid Floodway, MO	Drainage floodgate and levee closure	Modified by Sep. 3, 1954 Act.
890-954	New Madrid-Birds Point, MO	Floodway, right bank	--
902-922	Slough Bend, Hickman, KY	Main line levee, left bank	--
922	Hickman, KY	Floodwall, left bank	--
946	Peafield, MO	Drainage floodgate	Authorized by Sep. 3, 1954 Act.
957 ¹	Cairo, Cairo drainage	Floodwalls and levees district	--
957 ¹	Cairo, Cairo drainage district, Mounds, Mound City, and vicinity	Floodwalls, levees, and pumping plant	--
	Thebes-Rock Island, IL	Levees, both banks	Intermittent (Sec. 6).
	Cape Girardeau, MO, to Rock Island, IL	Levees	Intermittent (Sec. 6).

1. Cairo, IL, is on Ohio River about 3 miles above its mouth (Mississippi River mile 954 AHP).
 2. Also see Table 41-D, "Authorizing Legislation."
 3. Commerce, MO, is on Upper Mississippi River, 39 miles above mouth of Ohio River.

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TABLE 41-B

MISSISSIPPI RIVER TRIBUTARY
AND OUTLET IMPROVEMENTS

Mileage Below Head of Atchafalaya River	Locality	Improvement	Remarks
	ATCHAFALAYA BASIN, LA ¹ <i>Atchafalaya Basin, Morganza and West Atchafalaya Floodways</i>		
0-54	West Atchafalaya Floodway between Red River and Alabama Bayou	Floodway	--
27-54	Morganza Floodway between Mississippi River and Alabama Bayou	Floodway	--
54-117	Atchafalaya Basin Floodway between Alabama Bayou and Morgan City <i>East protection levee (Morganza and Atchafalaya Floodways)</i>	Floodway	--
20-27	Lacour-Red Cross	Levee, upper Morganza guide	--
25-117	Morganza-Morgan City	Levee and Morgan City floodwall	Including lower Morganza Floodway guide levee.
27	Bayou Latenache	Drainage structure, Pointe Coupee, and channel enlargement	Through upper Morganza guide levee and enlargement of outlet channel.
0-27	Upper Pointe Coupee Loop area	Additional drainage facilities	Enlargement of Bayou Latenache. Approved Jun. 4, 1970. See Table 41-D.
31-57	Bayou Fordoche-Ramah	Drainage channel	Levee landside borrow pit.
80	Bayou Sorrel ¹	Lock	Alternate route, Gulf Intracoastal Waterway, Port Allen to Morgan City.
53-117	Bayou Sorrel Lock-Morgan City	Alternate navigation channel. Gulf Intracoastal Waterway	Gulf Intracoastal Waterway utilizes levee west side borrow pit channel.
117	Morgan City	Lock in Bayou Boeuf ¹	Gulf Intracoastal Waterway.
117-129	Below Morgan City	Channel relocation	Bypass route for Gulf Intracoastal Waterway.
117-129	Below Morgan City <i>Atchafalaya Basin Floodway lower protection levee</i>	Levee, floodwall	East of lower river.
105	Calumet	Floodgate, east	Bayou Teche-Wax Lake Outlet.
105-120	Below Morgan City	Levees, floodwall, drainage structures, and pumping plants	Enclosed area between Wax Lake Lake Outlet and Berwick.
115	Berwick ¹	Lock	Lower Atchafalaya River.
116	Patterson	Water system	Adjustment to provide fresh water.
	<i>West protection levee (Atchafalaya Basin and West Atchafalaya Floodways)</i>		
5	Simmesport-Hamburg	Levee fuse plug	West Atchafalaya Floodway.

**TABLE 41-B
(Continued)**

**MISSISSIPPI RIVER TRIBUTARY
AND OUTLET IMPROVEMENTS**

Mileage Below Head of Atchafalaya River	Locality	Improvement	Remarks
5-105	Mansura to Wax Lake Outlet Coulee des Grues	Protection levee Levee enlargement and floodgate extension	-- --
29	West Atchafalaya Floodway	Railway	--
29	Morganza Floodway	Railway	--
40	Bayou Darbonne	Gated drainage structures	Through West Atchafalaya protection levee.
40	West Atchafalaya Floodway	Highway	--
40	Morganza Floodway	Highway	--
41	Bayou Courtableau	Gated drainage control structures and channels	--
41	West Atchafalaya Floodway	Railway	--
41	Morganza Floodway	Railway	--
94	Charenton	Floodgate and approach channels	Borrow pit channel to Grand Lake through West Atchafalaya protection levee.
94	Jaws-Lake Fausse Pointe	Outlet, Charenton drainage canal and protection levee	Restoration of drainage west of West Atchafalaya Basin protection levee.
105	Calumet	Floodgate, west	Bayou Teche and Wax Lake Outlet.
105	Wax Lake Outlet	Drainage canal-railway and highway bridges	To lower flood heights.
	<i>Atchafalaya River</i>		
0-54	Barbre Landing-Alabama Bayou	East bank, levee	--
5-6	Simmesport	Levee, ring, and drainage structure	--
5-66	Simmesport-Bayou Garofier	West bank, levee	--
28-30	Melville	Levee, ring	--
40-41	Krotz Springs	Levee, ring	--
54-117	Below Alabama Bayou	Channel enlargement	Increase channel capacities to decrease flood heights.
94-106	Mississippi River-Morgan City	12- by 125-foot navigation channel	Through Grand and Six Mile Lakes.
	TECHE-VERMILION BASINS, LA		
	Atchafalaya River to Teche- Vermilion Basins	Pumping station above Krotz Springs, conveyance channels, and appurtenant works	Freshwater distribution from Atchafalaya River to Teche- Vermilion Basins.

MISSISSIPPI RIVER COMMISSION

**TABLE 41-B
(Continued)**

**MISSISSIPPI RIVER TRIBUTARY
AND OUTLET IMPROVEMENTS**

Mileage Above Mouth	Locality	Improvement	Remarks
	<i>Courtableau Basin, LA, and outlets</i>		
0-8	Charenton Canal	Drainage channel	Outlet to gulf
50-133	West Atchafalaya protection levee borrow pit channel	Drainage channel	Intercepting drainage channel.
96	Bayou Courtableau spillway	Drainage control structure	--
133	Bayou des Glaises	Diversion channel	--
	BAYOU COCODRIE AND TRIBUTARIES		
	Bayou Courtableau	Enlargement and additional culverts	Washington to west protection levee.
0-17	Bayou Cocodrie	Enlargement and realignment	--
17-40	Bayous Cocodrie-Boeuf diversion	New channel	--
40-51	Bayou Boeuf	New channel	--
51-60	Bayous Boeuf-Rapides diversion	New channel	--
17-42	Upper Cocodrie	Enlargement, clearing, and snagging	--
	<i>Bayou Boeuf</i>		
87-107	Bayou Lamourie to Kincaid	Enlargement, realignment, clearing, and snagging	--
	<i>Structures</i>		
40	Lecompte Control Structure	Fixed elevation weir	--
60	Bayou Rapides Control Structure	Gated drainage structure	--
87	Bayou Lamourie Control Structure	Gated drainage structure	--
	Various	Railway, highway, and local road bridges, and pipeline crossing	--
	LAKE PONTCHARTRAIN, LA		
	Lake Pontchartrain, Jefferson Parish, LA	Flood protection	(^{2,3})
	AMITE RIVER, LA		
	Amite River, LA	Bank protection	Authorized by Public Law 81-516. Eliminated by Public Law 89-298.
	LOWER RED RIVER, SOUTH BANK, RED RIVER LEVEES, LA		
82-145	Moncla-Hotwells	Levee, south bank	--
	Bayou Rapides Pumping plant and gravity structure	Levee, south bank	Senate Doc. (Public Law 84-99) Added to project by Public Law 101-514.
	Red River-Moncla to Lake Long	Levees	Intermittent (Sec. 6).

TABLE 41-B MISSISSIPPI RIVER TRIBUTARY AND OUTLET IMPROVEMENTS (Continued)

Mileage Above Mouth	Locality	Improvement	Remarks
	EASTERN RAPIDES AND SOUTH-CENTRAL AVOYELLES PARISHES, LA Eastern Rapides and south-central Avoyelles Parishes, LA	Flood protection and drainage improvement	Authorized by Public Law 91-611.
	TENSAS BASIN, AR AND LA <i>Red River backwater area</i> Tensas-Cocodrie area	Levees, drainage channels, structures, and pumping plant	(4)
3-56	Larto Lake-Jonesville	Levees, drainage channels, and structures	(4)
	Sicily Island area	Levees, drainage channels, structures, and pumping plants	(4)
3-56	Below Red River area	Levees, drainage channels, structures, and pumping plants	(4)
	<i>Black River, LA</i> Six Mile Bayou area	Drainage structure and appurtenant channel works	Unpublished VXD-MRC Letter Report dated May 31, 1977, MR&T authority. ²
56	Jonesville, LA	Levees, floodwall, pumping plant, and interior drainage	Portion of levee built under Sec. 6. Incorporated in MR&T by Public Law 81-516. ²
	Ouachita River	Levees, drainage channels, and structures	Monroe to Sandy Bayou and Bawcomville (Sec. 6).
	<i>Boeuf and Tensas Rivers and Bayou Macon, AR and LA</i> <i>Boeuf River, AR and LA</i> Below Bayou La Fourche	Clearing	(5)
0-32	Bayou La Fourche	Channel improvement and realignment	(5)
151-235	Boeuf River, AR and LA above Bayou La Fourche	Channel improvement	Authorized by Public Laws 78-534 and 79-526. ^{2,3}
210-286	Canal 19	Channel improvement	(5)
286-296	Canal 19 extension	Channel improvement	(6)
0-75	Big and Colewa Creeks	Channel improvement	Authorized by Public Law 78-534. ³
	<i>Tributaries of Boeuf River-- Canal 19</i>		
0-8	Fleschmans Bayou	Channel improvement	(6)
0-7	Caney Bayou	Channel improvement	(6)
0-33	Big Bayou	Channel improvement	(5)
0-10	Canal 18	Channel improvement	(6)
0-9	Kirsch Lake Canal	Channel improvement	(6)
0-14	Black Pond Slough	Channel improvement	(6)
	<i>Bayou Macon, AR and LA</i>		
0-170	Bayou Macon	Channel improvement	See Table 41-E
0-34	Canal 43	Channel improvement	(5)
0-35	Canal 81	Channel improvement	(5)

MISSISSIPPI RIVER COMMISSION

**TABLE 41-B
(Continued)**

**MISSISSIPPI RIVER TRIBUTARY
AND OUTLET IMPROVEMENTS**

Mileage Above Mouth	Locality	Improvement	Remarks
Lake Chicot	Pumping plant and drainage structure <i>Tributary of Bayou Macon</i>	To divert flows from Lake Chicot	Authorized by Public Law 90-483.
0-6	Rush Bayou <i>Tensas River, AR and LA</i>	Clearing	(⁶)
0-165	Tensas River <i>Tributary of Tensas River</i>	Channel improvement	Authorized by Public Law 78-534. ³
0-22	Mill and Vidal Bayous <i>Grant's Canal, LA</i>	Channel improvement	Authorized by Public Law 89-298.
0-0.2	Grant's Canal at Lake Providence	Filling canal	Authorized by Public Law 81-516.
	LOWER ARKANSAS RIVER, AR		
23-98	Yancopin-Pine Bluff	Levee, south bank	--
35-98	Fletcher Bend, AR, to Pine Bluff	Revetment	--
48-102	North Little Rock to Gillett (below Plum Bayou)	Levee, north bank	(⁵)
	GRAND PRAIRIE-BAYOU METO, AR		
	Grand Prairie Region and Bayou Meto Basin, AR	Aquifer protection. water supply and environmental improvements	Authorized by Public Law 81-516.
	YAZOO BASIN, MS		
0-75	Yazoo Backwater area	Levees and pumping plants	--
0-381	Yazoo River System below Arkabutla Lake	Channel improvement	Including Tallahatchie and Coldwater Rivers.
75-366	Yazoo River between Yazoo City and Prichard	Levees, right bank	Intermittent.
75-345	Yazoo River between Yazoo City and Askew	Levees, left bank	Intermittent.
45-109	Will M. Whittington Auxiliary Channel	Floodway channel	--
75	Yazoo City protection	Levee, drainage structure, and pumping plant	--
	Rocky Bayou area	Channel clearing and enlargement	Improvement of 7.8 miles was approved Apr. 29, 1970.
127	Belzoni protection	Levee and floodwall	--
185	Greenwood protection	Levees, channel improvement, drainage structures, and pumping plants	--
381	Arkabutla Lake	Flood detention and conservation	See Table 41-C.
0-64	Yalobusha River below Grenada Lake	Channel improvement	--
64	Grenada Lake	Flood detention and conservation	See Table 41-C.
0-24	Tallahatchie River-Little Tallahatchie River	Levees, Panola-Quitman Floodway	--
0-26	Little Tallahatchie River below Sardis Lake	Channel improvement	--

**TABLE 41-B
(Continued)**

**MISSISSIPPI RIVER TRIBUTARY
AND OUTLET IMPROVEMENTS**

Mileage Above Mouth	Locality	Improvement	Remarks
26	Sardis Lake	Flood detention and conservation	See Table 41-C.
0-13	Yocono River below Enid Lake	Channel improvement	--
13	Enid Lake	Flood detention and conservation	See Table 41-C.
0-88	Cassidy Bayou below Old Coldwater River	Channel improvement	Including Moore's Bayou, Cutoff Bayou, Whiting Lake and outlet.
137-260	Upper Yazoo Projects	Floodway channel	--
75-381	Area between main stem and hills including Bobo Bayou McKinney Bayou enlargement of pumping plant.	Levees and channel improvement	Authorized by Public Law 79-526.
0-8.3	Alligator-Catfish Bayous	Channel improvement and	Authorized by Public Law 79-526.
0-23	Bear Creek	Channel improvement	Authorized by Public Law 89-298. As modified in GDM in 1967.
0-42	Whiteoak Bayou	Channel improvement	Authorized by Public Law 89-298.
275-290	Tallahatchie River, MS	Two road crossings of Panola-Quitman Floodway, MS, and for protection of Sheley Bridge	Authorized by Public Law 90-147.
0-204	<i>Big Sunflower River, etc.</i> Big Sunflower River	Channel improvement	Authorized by Public Law 78-534. ³
0-8	Hull Brake-Mill Creek Canal	Channel improvement	--
0-28	Hushpuckena River	Channel improvement	--
0-81	Quiver River	Channel improvement	--
0-43	Gin and Muddy Bayous, MS	Channel improvement	Authorized by Public Law 87-874.
0-4	Bogue Phalia	Channel improvement	Authorized by Public Law 78-534. ³
0-4	Ditchlow Bayou	Channel improvement	Authorized by Public Law 78-534. ³
0-27	Little Sunflower River	Channel improvement	Authorized by Public Law 78-534. ³
153-160	Deer Creek	Channel improvement	Authorized by Public Law 78-534. ³
0-68	Steele Bayou	Channel improvement	Authorized by Public Law 78-534. ³
	Muddy Bayou	Water-control structure	Modified in December 1970. See Table 41-D. Approved Mar. 3, 1970. See Table 41-D.
	LOWER WHITE RIVER AND BASIN, AR		
13-55	Laconia Circle-Old Town Lake	Levee, backwater including outlet	Mile 605-645 Mississippi River.
0-68	Big Creek and tributaries structures	Pumping plant Channel improvement and	(⁶) Authorized by Public Law 89-298.

MISSISSIPPI RIVER COMMISSION

**TABLE 41-B
(Continued)**

**MISSISSIPPI RIVER TRIBUTARY
AND OUTLET IMPROVEMENTS**

Mileage Above Mouth	Locality	Improvement	Remarks
99	Clarendon levee	Levee and outlet structures	Authorized by Public Law 89-298.
108-192	Augusta to Clarendon	Levees, outlet structures	(⁵)
122	De Valls Bluff	Levee, outlet structure, and pumping station	(⁵)
143	Des Arc, AR	Levee, outlet structure, and pumping station	Authorized by Public Law 81-516.
0-196	CACHE BASIN, AR Cache River, AR	Channel improvement and structures	Authorized by Public Law 81-516.
0-90	Bayou DeView, AR	Channel improvement and structures	Authorized by Public Law 81-516.
	ST. FRANCIS RIVER AND BASIN, AR AND MO		
260	Inter-River Drainage District in Missouri	Channel improvement and two outlet structures	Authorized Dec. 16, 1975. See Table 41-D.
0-225	Mouth of St. Francis River-Wappapello Dam	Floodway, levees, drainage channels, and structures	--
225	Wappapello Lake	Flood detention and conservation	See Table 41-C.
0-105	Little River Basin	Floodway, levees, drainage channels, and structures	--
86	Marked Tree, AR	Marked Tree Siphon	--
0-36	Tyronza River	Channel improvement	--
0-29	Big Slough Ditch	Channel improvement	--
0-17	Mayo Ditch	Channel improvement	--
0-12	Cross County Ditch Belle Fountain Ditch	Channel improvement Channel improvement	-- Authorized by Public Law 90-483.
	Drainage District No. 17	Channel improvement and pumping station	Authorized by Public Law 90-483.
0-108	L'ANGUILLE RIVER, AR L'Anguille River and tributaries, Brushy and First Creeks	Channel improvement	Authorized by Public Law 80-858.
	WEST TENNESSEE TRIBUTARIES		
0-25	Wolf River and tributaries, TN Obion River and tributaries, North, South, Middle, and Rutherford Forks	Channel improvement Channel improvement	(⁶) Authorized by 1948 Flood Control Act.
	Forked Deer River and tributaries, North, Middle, and South Forks	Channel improvement	Authorized by 1948 Flood Control Act.
	Mud Lake Pumping Station, TN	Pumping plant	Authorized by Resolutions Dec. 15 and 17, 1970. ²

**TABLE 41-B
(Continued)**

**MISSISSIPPI RIVER TRIBUTARY
AND OUTLET IMPROVEMENTS**

Mileage Above Mouth	Locality	Improvement	Remarks
	Harris Fork Creek, TN and KY	Flood control improvements	Authorized by Water Resources Act of Oct. 22, 1976. ² Section 102, 1976. ²
	Porter Gap, TN	Construction to main-stem standards, levee and appurtenant structures for flood control	Section 183, 1976. ²
0-20	REELFOOT LAKE-LAKE NO. 9, TN AND KY Running Reelfoot Bayou, TN	Channel improvement	Authorized by Public Law 83-780.
0-15	Bayou du Chien and Lake No. 9, KY and TN	Channel improvements and pumping station	Authorized in December 1970. See Table 41-D.
0-47	WEST KENTUCKY TRIBUTARIES, KY Obion Creek, KY	Channel improvement	Authorized by Public Law 89-298.
	LITTLE RIVER DIVERSION CHANNEL, MO Delta to Ansell, MO	Levees	Mile 49 above Cairo.
0-28	MISSOURI RIVER, MO Mouth to St. Charles, MO	Levees	Intermittent (Sec. 6).
0-120	ILLINOIS RIVER, IL Mouth to Havana, IL	Levees	Intermittent (Sec. 6).
	OHIO RIVER, IL AND KY Cairo to Mound City and Mounds, IL	Floodwall, levee, revetment, and pumping plant	

1. General data concerning Bayou Boeuf, Bayou Sorrel, and Berwick locks where Atchafalaya Basin protection levees cross Gulf Intracoastal Waterway, alternate route to Plaquemine, LA, and lower Atchafalaya River (extension of Bayou Tech Waterway), respectively, are in report of New Orleans District.
2. Also see Table 41-D, "Authorizing Legislation."
3. Public Law 81-516 modified requirements of local cooperation.
4. Authorized by Public Law 77-228. Modified by Public Law 89-298.
5. Authorized or incorporated in MR&T by Public Law 79-526.³ See Table 41-D.
6. Authorized by Public Law 85-500.

TABLE 41-D AUTHORIZING LEGISLATION

Act or Authorization	Work Authorized	Document
May 15, 1928	Flood protection in alluvial valley of Mississippi River, revetment and contraction works and dredging to provide least channel depth of 9 feet and width of 300 feet below Cairo.	H. Doc. 90, 70th Cong., 1st sess.
Jun. 19, 1930	Provided for allotment of the balance of emergency rescue funds to reimburse levee districts and others for expenditures in flood-control works during the 1927 and subsequent floods.	Public Law 395, 71st Cong., 2d sess.
Feb. 15, 1933	Provided for ownership of lands in Bonnet Carré Spillway and Floodway with proviso for granting rights-of-way, easements, and permits, in said lands.	Public Law 351, 72d Cong.
Apr. 23, 1934	Authorized payment for purchase of, or to reimburse states and local levee districts for the cost of, levee rights-of-way for flood-control work in the Mississippi Valley, and for other purposes.	Public Law 171, 73d Cong.
Aug. 30, 1935	Improvement of Wolf and Nonconnah Rivers, TN (Nonconnah Creek is correct title). Improvement of Wolf River (Memphis Harbor), TN.	R&H Comm. Doc. 26, 72d Cong., 1st sess. R&H Comm. Doc. 45, 74th Cong., 1st sess.
Jun. 15, 1936	Modification of the 1928 Act to provide for: Construction of a backwater levee at mouth of White River, AR. Construction of Eudora floodway in lieu of Boeuf floodway; flood control, Yazoo River; construction of Morganza floodway; and an outlet to the Gulf of Mexico west of Berwick, LA, including a 6-year program for the improvement and regularization of the Mississippi River between Arkansas and Red Rivers, and Atchafalaya River; and construction of roads on levees and drainage adjustments incident to floodway levees.	Unpublished report dated Apr. 2, 1925. H. Comm. on Flood Control, Doc. 1, 74th Cong., 1st sess.
Aug. 28, 1937	Provided for construction of floodwalls, levees, and revetments along Wolf River and Nonconnah Creek for protection of Memphis, TN. Modify the Yazoo River project to substitute a combined reservoir floodway and levee plan.	Unpublished report on record in OCE.
Jun. 28, 1938	Construction of Mounds to Mound City levee and control works along Cache River, IL. Modification of previous act pertaining to floodways and outlets and lands therein; including program for the improvement and regularization of the Mississippi River, between Cairo and Arkansas River, extension of levee road system; strengthening of levees.	H. Comm. on Flood Control, Doc. 1, 75th Cong., 1st sess. H. Comm. on Flood Control, Doc. 1, 75th Cong., 1st sess.
Aug. 18, 1941	Enlarge main line levees to offset abandonment of floodways between Arkansas and Red Rivers, flood-control works in backwater areas of Yazoo and Red Rivers, and in Bayous Rapides, Boeuf, and Cocodrie, LA.	H. Doc. 359, 77th Cong., 1st sess.

MISSISSIPPI RIVER COMMISSION

**TABLE 41-D
(Continued)**

AUTHORIZING LEGISLATION

Act or Authorization	Work Authorized	Document
	Modification of the Yazoo Basin, MS, feature to provide for a streambank erosion control demonstration project for the delta and hill areas of basin.	Sec. 32, Public Law 93-251.
	Modification of project to provide that the Secretary of the Army, acting through the Chief of Engineers, can substitute authorized mitigation lands, not yet acquired and no longer suitable, for like acreage in the same or adjacent subbasins of the project area. This section provides the authority to substitute authorized mitigation lands in:	Sec. 42, Public Law 93-251.
	a. Tensas Basin, LA and AR, feature (Red River backwater). b. St. Francis Basin, AR and MO, feature.	
	Modification of Bayou Cocodrie and tributaries, LA, feature, to provide for: enlargement of Bayou Courtableau from Washington to west protection levee; right-of-way and spoil disposal areas at Federal expense; and necessary additional culverts through west protection levee.	Sec. 87, Public Law 93-251.
	Modification of Cache River Basin, AR, feature to provide for: acquisition by fee easements of lands for fish and wildlife management, recreation, and environmental purposes.	Sec. 99, Public Law 93-251.
TITLE II River Basin Monetary Authorization Act of 1974	Continue prosecution of project for the comprehensive development of the basin, \$211 million.	Sec. 201, Public Law 93-251. Mar. 7, 1974.
River Basin Monetary Act of Oct. 2, 1975	Continue prosecution of project for the comprehensive development of the basin, \$158,000,000.	Sec. 1, Public Law 94-101.
Dec. 16, 1975 ²	Modification of St. Francis Basin, AR and MO, feature to provide relief from ponding of interior runoff in the Inter-River Drainage District of Missouri.	Unpublished Memphis District's MRC report dated Nov. 11, 1975.
TITLE II Public Works for Water and Power Development and Energy Research Appropriation Act, 1976.	Continue prosecution of project for comprehensive development during period Jul. 1-Sep. 30, 1976, \$60,300,000.	Public Law 94-180, Dec. 26, 1975.

MISSISSIPPI RIVER COMMISSION

**TABLE 41-D
(Continued)**

AUTHORIZING LEGISLATION

Act or Authorization	Work Authorized	Document
Energy and Water Development Appropriation Act, 1981	For expenses necessary for prosecuting work of flood control projects, rescue work, repair, restoration or maintenance of flood control projects threatened or destroyed by flood, \$232,519,000: Provided, That not less than \$250,000 be available for control of bank erosion of streams in the Yazoo Basin, including the foothill area. Provided further, That funds for the Tensas Basin Red River Backwater Area, be used for flood control, etc., for Sicily Island and Below Red River including pumping stations.	Public Law 96-367, Oct. 1, 1980.
Supplemental Appropriations Bill for FY Ending Sep. 30, 1985 (PL 99-88), and the Water Resources Development Act of 1986 (PL 99-662)	Authorizes and directs the Secretary of the Army acting through the Chief of Engineers to proceed with planning, design, engineering, and construction of 41 water resources projects, including Atchafalaya Basin Floodway System. For the Atchafalaya Basin Floodway Systems project, cost-sharing is only required for the recreation feature of the project. The flood control and environmental features are Federal costs.	FY 1985 Supplemental Appropriations Bill (PL 99-88), and Water Resources Development Act of 1986 (PL 99-662).
Water Resources Development Act, 1986	<p>Sec. 104(a), Authorization of Projects - Authorization of Construction:</p> <p>Incorporation of the project for flood control, Louisiana State Penitentiary levee, Mississippi River, LA: Report of the Chief of Engineers, dated Dec. 10, 1982, at a total cost of \$23,400,000, with an estimated first Federal cost of \$17,600,000 and an estimated first non-Federal cost of \$5,800,000. No acquisition of land for or actual construction of the project may commence until appropriate non-Federal interests shall agree to undertake measures to minimize the loss of fish and wildlife habitat lands in the project area. The work is unscheduled.</p> <ol style="list-style-type: none"> a. Bushley Bayou, LA. Water Resources Development Act of 1986 authorized the project for flood control, Bushley Bayou, LA. b. Eight Mile Creek, Paragould, AR. Project entails channel improvement along the creek with miniparks and hiking/ biking trails. c. Helena and Vicinity, AR. The Helena Basin is an urban basin containing approximately 3,500 acres which frequently and severely floods the city of Helena. A pumping station and sump with channel enlargement and a gated culvert was recommended. d. West Memphis and Vicinity, AR. Channel improvements along Ten Mile Bayou and Fifteen Mile Bayou for a total of 23.86 miles, with limited revegetation of right-of-way to maintain environmental stability. e. St. Johns Bayou and New Madrid Floodway, MO. Flood control for urban and rural land. 	Public Law 99-662, Nov. 17, 1986.

TABLE 41-D **AUTHORIZING LEGISLATION**
(Continued)

Act or Authorization	Work Authorized	Document
Energy and water Development Appropriation Act, 1994	f. Nonconnah Creek and Johns Creek, TN and MS. Channel enlargement, recreation features with channel construction and environmental enhancement.	
	g. Horn Lake Creek and Tributaries, TN and MS. This is an urban flood control project located in extreme northwest Mississippi and southwest Tennessee. The plan of improvement consists of 3.5 miles of selective drift removal on lower Horn Lake Creek and 2.6 miles of vegetative clearing on Horn Lake Creek, 2.1 miles on Rocky Creek and 0.6 miles of vegetative clearing and 1.8 miles of channel enlargement on Cow Pen Creek. Hike/bike trails are included along Rocky Creek and Cow Pen Creek.	
	h. Atchafalaya Basin Floodway System, La. Not mentioned, but this Act authorized basic cost sharing principles for the project. In particular establishes that the fish and wildlife enhancement feature of the project is of national significance, and therefore, a 100 percent Federal cost.	
	i. Lower Atchafalaya Basin Reevaluation Study. Authority to, within available funds, investigate conditions at Wax Lake Outlet, Bayou Black, and other features, and recommend any modification desirable for flood protection navigation, and environmental program.	
	Sec. 601(a) Authorization of Projects. Authorization of Construction:	
	a. Yazoo Backwater Area, MS. Authorized the project for mitigation of fish and wildlife losses at the Yazoo Backwater Project, MS. The project shall include acquisition of 40,000 acres for mitigation of project-induced fish and wildlife losses.	
	b. Greenville Harbor, MS. Authorized the project for navigation, Greenville Harbor, MS, as contained in the reports of Chief of Engineers, Nov. 15, 1977 and Feb. 2, 1982, at a total cost of \$43,700,000 with an estimated first Federal cost of \$28,000,000 and an estimated non-Federal first cost of \$15,700,000.	
	c. Vicksburg Harbor, MS. Authorized the project for navigation, Vicksburg Harbor, as contained in the report of the Chief of Engineers, Aug. 13, 1979, at a total estimated first Federal cost of \$55,900,000 and an estimated non-Federal first cost of \$23,300,000.	
	d. Helena Harbor, Phillips County, AR. The recommended plan consists of dredging a navigation channel to provide access to 685 acres of landfill; construction of an overlook park; implementing landscaping and erosion control measures; and mitigation fish and wildlife losses. The project is scheduled to be constructed in two phases.	

MISSISSIPPI RIVER COMMISSION

**TABLE 41-D
(Continued)**

AUTHORIZING LEGISLATION

Act or Authorization	Work Authorized	Document
	<p>e. White River Navigation to Batesville, AR. The plan of improvement recommended in the Feasibility Report provides for construction and maintenance to provide a 200-foot wide, 9-foot deep channel available 95 percent of the time from mile 10 (Arkansas Post Canal) to mile 254, two scenic overlooks, a primitive camping area, and acquisition of about 1,865 acres of woodlands for mitigation. However, section 52 of the Water Resources Development Act of 1988 deauthorized this project.</p> <p>f. Obion Creek, KY. To prevent headwater flooding along tributary streams and backwater flooding of alluvial lands.</p> <p>g. Memphis Harbor, Memphis, TN. This is a navigation project in the vicinity of Memphis, TN, which would consist of dredging and maintaining a 4.9 mile long, 500-foot minimum width, 9-foot deep general navigation channel with additional dredging as required and strategic placement of dredged material to create and provide navigation access to 1,000 acres to be developed as a waterfront industrial complex.</p> <p>Sec. 806. Reelfoot Lake, KY. This project is modified to provide that the Federal share of the cost of operating the pumping plant feature of such project shall be 50 percent.</p> <p>Sec. 836. Mud Lake, Western Tennessee Tributaries. This project is modified to provide that the requirements of local cooperation shall be (1) 50 percent of the value of the lands, easements, and rights-of-way, (2) to hold and save the United States free from damages due to the construction works, and (3) to maintain and operate all the works after completion.</p>	
Jun. 4, 1987	Modification of Mississippi Delta Region project to construct salinity control structure at Davis Pond (mile 118) rather than at Myrtle Grove (mile 59).	Unpublished New Orleans District report, Nov. 1, 1984.
Water Resources Development Act, 1988	<p>Sec. 3(a), Project Authorizations - Authorization of Construction:</p> <p>a. Mississippi-Louisiana Estuarine Area, MS and LA. Authorized the project for environmental enhancement, as contained in the report of Chief of Engineers, dated May 19, 1986, at a total cost of \$59,300,000.</p>	Public Law 100-676 Nov. 17, 1988
Water Resources Development Act, 1988	<p>Section 4(b) West Memphis and Vicinity, AR. Modified the project by allowing that non-Federal cooperation may be provided by levee districts, drainage districts, or any unit of a state, county, or local government.</p>	Public Law 100-676, Nov. 17, 1988

MISSISSIPPI RIVER COMMISSION

**TABLE 41-D
(Continued)**

AUTHORIZING LEGISLATION

Act or Authorization	Work Authorized	Document
Water Resources Development Act, 1996	White River, Arkansas The project for navigation, White river Navigation to Batesville, Arkansas, authorized by section 601(a) of the Water Resources Development Act of 1986 (100 Stat 4139) and deauthorized by section 52(b) of the Water Resources Development Act of 1988 (102 Stat. 4044), is authorized to be carried out by the Secretary.	Public Law 104-303 Oct 12, 1996
Water Resources Development Act, 1999	Memphis Harbor, Memphis, Tennessee Authorized to be carried out by the Secretary, if the Secretary determines that the project is technically sound, environmentally acceptable, and economically justified, as appropriate.	Public Law 106-53 Aug. 17, 1999
Water Resources Development	Tunica Lake Weir, Mississippi The Secretary shall conduct a study to determine the feasibility of constructing an outlet weir at Tunica Lake, Tunica county, Mississippi, and Lee County, Arkansas, for the purpose of stabilizing water levels in the lake. In carrying out the study, the Secretary shall include as part of the economic analysis the benefits derived from recreation uses at Tunica Lake and economic benefits associated with restoration of fish and wildlife habitat.	Public Law 106-53
Water Resources Development Acts, 1986, 1990 and 1999	Louisiana State Penitentiary Levee, Mississippi River, Louisiana Authorizes and directs the Secretary of the Army, acting through the Chief of Engineers to proceed with planning, design, engineering, and construction of improvements of 12 miles of existing levee along the Mississippi River which provides flood protection to the Louisiana State Penitentiary at Angola, LA. This act authorizes basic cost sharing principles, and establishes that the cost sharing will be shared on a 75%/25% basis with the state of Louisiana for this project. Authorizes the Secretary of the Army to consider credit for work performed by a non-Federal sponsor since project authorization.	Public Law 99-662 Nov. 17, 1986 Public Law 101-640 Nov. 28, 1990 Public Law 106-53 Aug. 17, 1999
Omnibus Consolidated and Emergency Appropriations For Fiscal Year 2001	Ten and Fifteen Mile Bayous, St. Francis River Basin, Arkansas Modified Section 204 of the Flood Control Act of 1950 to expand the boundaries of the project to include Ten- and Fifteen-Mile Bayous near West Memphis, Arkansas. Notwithstanding section 103(f) of the Water Resources Development Act of 1986, the flood control work at Ten- and Fifteen-Mile Bayous shall not be considered separable elements of the project.	House Report 4577 Dec 15, 2000

**TABLE 41-F SUMMARY OF PRESENTLY ESTIMATED
FEDERAL FIRST COST OF
AUTHORIZED IMPROVEMENTS**

Project Title	Estimated Cost ¹ Fiscal Year 2008
Completed features ²	\$ 339,236,000
Mississippi River levees	2,482,700,000
Mud Lake Pumping Station, TN	5,460,000 ³
Sec. 6 levees, 1928 Flood Control Act	4,000,000 ³
Channel improvement	4,168,000,000
Atchafalaya Basin, LA	1,798,000,000
Atchafalaya Basin Floodway System, LA	387,366,000
Bayou Cocodrie and Tributaries, LA	20,400,000 ³
Old River, LA	332,620,000
Lower Red River—South Bank Red River levees, LA	18,813,000 ³
Eastern Rapides and South-Central Avoyelles Parishes, LA	50,000,000 ³
Mississippi Delta Region, LA	118,576,542
Tensas Basin, AR and LA	447, 197,000
Lower Arkansas River, AR	29,676,000 ³
Grand Prairie Region, AR	208,000,000
Yazoo Basin, MS	2,436,700,000
Lower White River, AR (All except Big Creek & Tribs.)	16,802,000 ³
Lower White River, AR (Big Creek & Tribs.)	55,900,000 ³
Cache River Basin, AR	155,000,000
St. Francis Basin, AR and MO	475,780,000
Francis Bland Floodway Ditch (Eight Mile Creek), AR	15, 383,000 ³
L'Anguille River, AR	15,100,000 ³
West Tennessee Tributaries, TN	176,000,000
Harris Fork Creek, TN and KY	14,300,000 ³
Reelfoot Lake-Lake No. 9, TN and KY	(10,840,000) ³
Reelfoot Lake, TN and KY (Completed)	440,000
Reelfoot Lake-Lake No. 9, TN and KY	10,400,000 ³
West Kentucky Tributaries, KY	29,100,000 ³
Sardis Dam (Dam Safety Assurance), MS	29,200,000
St. Johns Bayou and New Madrid Floodway, MO	54,900,000 ⁴
Nonconnah Creek, TN and MS	27,890,000 ⁴
Horn Lake Creek and Tributaries, TN and MS	11,320,000 ⁴
Greenville Harbor, MS	32,400,000 ⁴
Memphis Harbor (Ensley Berm), TN	23,100,000 ⁴
Helena Harbor, Phillips County, AR	32,156,000 ⁴
Helena, AR, and Vicinity	10,300,000 ^{3,4}
West Memphis, AR, and Vicinity	11,600,000 ^{4,6}
Louisiana State Penitentiary Levee, LA	18,800,000 ^{4,7}
Hickman Bluff, KY	17,525,000
Whiteman's Creek, AR	3,300,000
Reelfoot Lake, TN and KY (Ecosystem Restoration)	21,500,000 ^{3,8}
Mississippi — Louisiana Estuarine Areas, MS and LA	87,139,000 ⁵
Bayou Meto, AR	358,108,000
Lower White River:	(14,177,000)
Clarendon Levee, AR	1,576,000
Augusta to Clarendon, AR	12,601,000

TABLE 41-H

BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)

Location	Above Head of Passes (Miles)	Bank R or L	Operations This FY						Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			Construction			Maintenance (Squares) ¹	Reinforcement			
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹		(Linear Feet)	(Squares) ¹		
MISSISSIPPI RIVER										
Standard Revetment:										
Venice, LA	12	R	--	--	--	--	--	--	--	49,552
Olga, LA	17	L	--	--	--	--	--	--	--	19,053
Lower Childress-Fort Jackson, LA	21	R	--	--	--	--	--	--	--	15,430
Neptune, LA	23	L	--	--	--	--	--	--	--	14,399
Buras, LA	25	R	--	--	--	--	--	--	--	17,283
Tropical Bend, LA	31	R	--	--	--	--	--	--	--	25,012
Bayou Lamoque, LA	33	L	--	--	--	--	--	--	--	21,505
Port Sulphur, LA	38	R	--	--	--	--	--	--	--	36,995
Nestor, LA	42	L	--	--	--	--	--	--	--	14,192
Point Michel, LA	44	R	--	--	--	691	3,083	--	--	22,932
Bohemia, LA	46	L	--	--	--	--	--	--	--	16,455
Diamond, LA	48	R	--	--	--	--	--	--	--	11,600
Gravolet, LA	51	L	--	--	--	--	--	--	--	23,874
Junior, LA	54	R	--	--	--	--	--	--	--	23,599
Harlem, LA	57	L	--	--	--	--	--	--	--	15,148
Myrtle Grove, LA	59	R	--	--	--	--	--	--	--	17,435
Monsecour, LA	61	L	--	--	--	--	--	--	--	13,340
Alliance, LA	63	R	--	--	--	--	--	--	--	17,265
Belair, LA	65	L	--	--	--	--	--	--	--	26,111
Jesuit Bend, LA	68	R	--	--	--	--	--	--	--	24,978
Linwood, LA	71	L	--	--	--	--	--	--	--	14,643
Oak Point, LA	72	R	--	--	--	--	--	--	--	16,426
Scarsdale, LA	75	L	--	--	--	--	--	--	--	17,825
English Turn, LA	78	R	--	--	--	--	--	--	--	21,845
Poydras, LA	82	L	--	--	--	1,825	15,012	--	--	45,864
Twelve Mile Point, LA	84	R	--	--	--	--	--	--	--	9,979
Cutoff, LA	88	R	--	--	--	--	--	--	--	23,234

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank R or L	Operations This FY						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)	
			New Work			Reinforcement					Maintenance (Squares) ¹
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹	(Squares) ¹			
Standard Revetment:											
Third District, LA	92	L	--	--	--	--	--	--	--	28,372	
Algiers Point, LA	95	R	--	--	--	882	4,965	--	--	12,238	
Gouldsboro, LA	96	R	--	--	--	--	--	--	--	4,960	
Gretna, LA	97	R	--	--	--	--	--	--	--	10,340	
Greenville, LA	100	R	--	--	--	--	--	--	--	22,045	
Carrollton, LA	104	L	--	--	--	--	--	--	--	18,637	
Avondale, LA	108	R	--	--	--	--	--	--	--	28,409	
Kenner, LA	113	L	--	--	--	--	--	--	--	45,492	
Luling, LA	119	R	--	--	--	--	--	13,321	--	44,893	
Destrehan, LA	120	L	--	--	--	--	--	--	--	5,409	
Goodhope, LA	125	L	--	--	--	--	--	--	--	24,531	
Waterford, LA	129	R	--	--	--	--	--	--	--	23,106	
Montz, LA	132	L	--	--	--	--	--	--	--	17,502	
Lucy, LA	136	R	--	--	--	--	--	--	--	19,450	
Reserve, LA	138	L	--	--	--	--	--	--	--	23,234	
Willow Bend, LA	141	R	--	--	--	792	4,010	--	--	13,227	
Angelina, LA	145	L	--	--	--	--	--	--	--	32,762	
Vacherie, LA	148	R	--	--	--	--	--	--	--	26,025	
Belmont, LA	152	L	--	--	--	--	--	--	--	25,575	
Richbend, LA	157	R	--	--	--	--	--	--	--	38,498	
Romeville, LA	162	L	--	--	--	--	--	--	--	33,986	
St. Alice, LA	165	R	--	--	--	--	--	--	--	31,130	
Burnside, LA	169	L	--	--	--	--	--	--	--	29,304	
Aben, LA	173	R	--	--	--	--	--	--	--	11,700	
St. Elmo, LA	175	L	--	--	--	--	--	--	--	12,014	
Smoke Bend, LA	177	R	--	--	--	--	--	--	--	18,792	
Marchand, LA	181	L	--	--	--	--	--	--	--	19,603	
Philadelphia Point, LA	183	R	--	--	--	--	--	--	--	5,379	
New River Bend, LA	185	L	--	--	--	--	--	--	--	45,672	

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank R or L	Operations This FY						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)	
			New Work			Reinforcement					Maintenance (Squares) ¹
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹	(Squares) ¹			
Standard Revetment:											
White Castle, LA	193	R	--	--	--	--	--	--	--	45,968	
St. Gabriel, LA	201	L	--	--	--	--	--	--	--	33,292	
Plaquemine, LA	209	R	--	--	--	--	--	--	--	45,012	
Manchac, LA	215	L	--	--	--	--	--	--	--	38,976	
Missouri Bend, LA	222	R	--	--	--	682	3,007	--	--	30,437	
Arlington, LA	226	L	--	--	--	--	--	--	--	18,050	
Port Allen, LA	231	R	--	--	--	--	--	--	--	17,627	
Scotlandville, LA	234	L	--	--	--	--	--	--	--	1,623	
Allendale, LA	239	R	--	--	--	--	--	--	--	29,520	
Springfield, LA	244	L	--	--	--	--	--	--	--	25,690	
Arbroth, LA	249	R	--	--	--	--	--	--	--	23,526	
Faulkner Lake, LA	253	L	--	--	--	--	--	--	--	18,807	
Grand Bay , LA	257	R	--	--	--	--	--	--	--	24,909	
Bayou Sara, LA	263	L	--	--	--	--	--	--	--	29,722	
Red Store, LA	268	R	--	--	--	--	--	--	--	18,464	
Arrow Bend, LA	272	L	--	--	--	--	--	--	--	13,600	
Boise Point, LA	275	R	--	--	--	--	--	--	--	16,094	
Morganza, LA	279	R	--	--	--	--	--	10,017	--	20,513	
Iowa Point, LA	282	L	--	--	--	--	--	--	--	15,477	
Brunette Point, LA	285	R	--	--	--	--	--	--	--	14,335	
Greenwood, LA	290	L	--	--	--	--	--	7,250	--	26,032	
Hog Point , LA	296	R	--	--	--	--	--	--	--	37,516	
Carr Point, LA	302	R	--	--	--	--	--	--	--	20,725	
Above Old River, LA	305	R	--	--	--	--	--	--	--	9,958	
Fort Adams, LA	310	L	--	--	--	--	--	--	--	24,206	
Point Breeze, LA	314	R	--	--	--	--	--	--	--	13,565	
Coochie, LA	317	R	--	--	--	--	--	--	--	17,150	

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank R or L	Operations This FY Construction						Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)	
			New Work			Reinforcement					Maintenance (Squares) ¹
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹	(Squares) ¹			
Standard Revetment: Palmetto, MS	322	L	--	--	--	1,476	6,137	--	--	34,650	
Total Revetment New Orleans District, Mississippi River			0	0	0	6,348	36,214	30,588	0	1,913,703 362.44 Miles	
Dikes:											
Profit Island Chute Closure, LA	252	L	--	--	--	--	--	--	--	4,315	
Hog Point, LA	299	L	--	--	--	--	--	--	--	6,850	
Hog Point Chute Closure	300	R	--	--	--	--	--	--	--	900	
Grand Bay Hard Points	254	R	2,155	--	--	--	--	--	--	2,155	
Arbroth Hard Points	246	R	2,324	--	--	--	--	--	--	2,324	
Springfield	241	L	--	--	--	--	--	--	--	1,491	
Total Dikes New Orleans District, Mississippi River										18,035 (3.42 Miles)	
OLD RIVER CONTROL											
Standard Revetment:											
Inflow channel	315	L	--	--	--	--	--	--	--	2,415	
Inflow channel	315	R	--	--	--	--	--	--	--	4,365	
Outflow channel	315	L&R	--	--	--	--	--	--	--	19,891	
Auxiliary inflow channel	312	L&R	--	--	--	--	--	--	--	17,200	
Auxiliary outflow channel	312	L&R	--	--	--	--	--	--	--	5,790	
Total Standard Revetment, Old River			--	--	--	--	--	--	--	49,661 (9.41 Miles)	

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Below Confluence of Red and Atchafalaya Rivers (Miles)	Bank R or L	Operations This FY						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)	
			New Work			Reinforcement					Maintenance (Squares) ¹
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) 1	(Linear Feet)	(Squares) ¹				
ATCHAFALAYA RIVER											
Standard Revetment:											
Mile 1.0, LA	1	L	--	--	--	--	--	--	--	4,150	
Coville Bayou, LA	3	R	--	--	--	--	--	--	--	6,550	
Legonier, LA	4	L	--	--	--	--	--	--	--	8,940	
Simmesport, LA	6	R	--	--	--	--	--	--	--	12,491	
Kuhlman Bayou, LA	8	L	--	--	--	--	--	--	--	5,565	
Odenburg, LA	8	R	--	--	--	--	--	--	--	5,375	
Jacoby, LA	10	L	--	--	--	--	--	--	--	10,269	
Cason, LA	13	R	--	--	--	--	--	--	--	10,798	
McCrea, LA	14	L	--	--	--	--	--	--	--	6,572	
Woodside, LA	15	R	--	--	--	--	--	--	--	13,002	
Provosty, LA	17	L	--	--	--	--	--	--	--	9,111	
Crooked Bayou, LA	19	R	--	--	--	--	--	--	--	20,294	
Mercier, LA	22	L	--	--	--	--	--	--	--	13,000	
Barberton, LA	24	R	--	--	--	--	--	--	--	4,413	
Evans Point, LA	24	L	--	--	--	--	--	--	--	6,668	
Goudeau, LA	26	R	--	--	--	--	--	--	--	4,973	
Morris Bayou, LA	27	L	--	--	--	--	--	--	--	5,440	
Goodwood, LA	28	R	--	--	--	--	--	--	--	8,505	
Red Cross, LA	30	L	--	--	--	--	--	--	--	9,608	
Melville, LA	31	R	--	--	--	--	--	--	--	5,660	
Cross Bayou, LA	31	L	--	--	--	--	--	--	--	6,065	
Melville South, LA	32	R	--	--	--	--	--	--	--	13,340	
Toles, LA	35	L	--	--	--	--	--	--	--	7,302	
Petite Prairie, LA	36	R	--	--	--	--	--	--	--	8,381	
Three Mile Bayou, LA	38	R	--	--	--	--	--	--	--	6,330	

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Below Confluence of Red and Atchafalaya Rivers (Miles)	Bank R or L	Operations This FY						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			Construction			Maintenance (Squares) ¹	Reinforcement			
			Exten sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹		(Linear Feet)	(Squares) ¹		
Standard Revetment:										
Holloway Lake, LA	37	L	--	--	--	--	--	--	--	7,085
Bayou Sherman, LA	39	L	--	--	--	--	--	--	--	5,200
Krotz Springs, LA	41	R	--	--	--	--	--	--	--	7,925
Sherburne, LA	43	L	--	--	--	--	--	--	--	10,960
Bayou Big Graw, LA	45	R	--	--	--	--	--	--	--	14,164
Coswell Bayou, LA	48	L	--	--	--	--	--	--	--	6,490
Courtableau, LA	49	R	--	--	--	--	--	--	--	6,905
Alabama Bayou, LA	50	L	--	--	--	--	--	--	--	9,410
Indian Bayou, LA	52	R	--	--	--	--	--	--	--	7,098
Happytown, LA	53	L	--	--	--	--	--	--	--	7,285
Otis Landing, LA	54	R	--	--	--	--	--	--	--	5,251
Morgan City Front, LA	115	L	--	--	--	--	--	--	--	3,410
Berwick South	12	R	--	--	--	--	--	--	--	1,428
Total Standard Revetment Atchafalaya River			0	0	0	0	0	0	0	305,413 (57.84 Miles)
Dikes:										
Ten Mile Dikes	10	R	--	--	--	--	--	--	--	2,500 (0.47 Miles)
<p style="text-align: center;">Below Confluence of Old River Out flow Channel and Red River (Miles)</p>										
LOWER RED RIVER										
Standard Revetment:										
Long Lake, LA	10	R	--	--	--	--	--	--	--	6,652
Naples, LA	7	R	--	--	--	--	--	--	--	6,190
Turnbull Island, LA	9	L	--	--	--	--	--	--	--	11,038
Total Standard Revetment			--	--	--	--	--	0	--	23,880 (4.52 Miles)

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MISSISSIPPI RIVER COMMISSION

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			Construction			Reinforcement	Maintenance			
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Tons of Stone)					
Dikes:										
None										
MISSISSIPPI RIVER										
Foreshore Protection:										
Port Allen	233.0	R	--	--	--	--	--	--	--	7,500
Cottage Plantation	222.6	L	--	--	--	--	--	--	--	2,000
Upper Plaquemine Point	210.5	L	--	--	--	--	--	--	--	4,350
Lower Plaquemine Point	207.0	L	--	--	--	--	--	--	--	2,935
Point Pleasant	201.7	R	--	--	--	--	--	--	--	5,221
Upper Point Clair	196.0	L	--	--	--	--	--	--	--	0
Point Clair	191.0	L	--	--	--	--	--	--	--	10,251
Belle Grove	189.9	R	--	--	--	--	--	--	--	0
Eighty-One Mile Point	176.0	L	--	--	--	--	--	--	--	2,890
Donaldsonville	174.2	R	--	--	--	--	--	--	--	0
Point Houmas	168.9	R	--	--	--	--	--	--	--	5,400
Sunshine	167.4	L	--	--	--	--	--	--	--	900
Union	166.3	L	--	--	--	--	--	--	--	6,500
Convent	158.3	L	--	--	--	--	--	--	--	11,900
Oak Alley	153.4	R	--	--	--	--	--	--	--	7,800
Lutcher	148.6	L	--	--	--	--	--	--	--	8,910
Wallace	145.5	R	--	--	--	--	--	--	--	10,390
Garyville	140.4	L	--	--	--	--	--	--	--	0
Edgard	138.2	R	--	--	--	--	--	--	--	12,410
Reserve	136.0	L	--	--	--	--	--	--	--	2,200
Waterford	129.0	R	--	--	--	--	--	--	--	500
26 Mile Point	122.8	L	--	--	--	--	--	--	--	1,320
Destrehan	121.0	L	--	--	--	--	--	--	--	0
St. Rose	120.8	L	--	--	--	--	--	--	--	9,830
Lower St. Rose	116.6	L	--	--	--	--	--	--	--	7,050
Ama	115.0	R	--	--	--	--	--	--	--	0

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY						Maintenance (Tons of Stone)	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			Construction			Reinforcement					
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Tons of Stone)	(Linear Feet)	(Tons of Stone)				
Foreshore Protection:											
American Cyanamid	114.8	R	--	--	--	--	--	--	--	4,788	
Willswood	113.2	R	--	--	--	--	--	--	--	3,980	
Avondale	109.4	R	--	--	--	--	--	--	--	6,500	
Twelve Mile Point	108.9	L	--	--	--	--	--	--	--	4,580	
Avondale	105.5	R	--	--	--	--	--	--	--	2,070	
Nine Mile Point	105.0	R	--	--	--	--	--	--	--	1,760	
Greenville	100.0	R	--	--	--	--	--	--	--	6,900	
Snowdrift	97.6	R	--	--	--	--	--	--	--	8,450	
Gretna-Gouldsboro	96.7	R	--	--	--	--	--	--	--	1,683	
Algiers	95.4	R	--	--	--	--	--	--	--	1,548	
Holy Cross	92.2	L	--	--	--	--	--	--	--	1,915	
Arabi	91.9	L	--	--	--	--	--	--	--	6,130	
Quarantine	91.5	R	--	--	--	--	--	--	--	3,805	
Huntlee	90.4	R	--	--	--	--	--	--	--	3,139	
Chalmette	90.2	L	--	--	--	--	--	--	--	1,260	
Norman	90.0	R	--	--	--	--	--	--	--	2,968	
Brou	89.5	L	--	--	--	--	--	--	--	3,030	
Auora	89.3	R	--	--	--	--	--	--	--	3,700	
Blythe Blvd	88.6	R	--	--	--	--	--	--	--	4,345	
Upper Stanton	86.5	R	--	--	--	--	--	--	--	12,890	
Saxonholm-Docville	86.0	L	--	--	--	--	--	--	--	1,060	
Pecan Grove-Story	85.8	L	--	--	--	--	--	--	--	1,910	
Story-Allo	84.5	L	--	--	--	--	--	--	--	5,400	
Delacroix	84.2	R	--	--	--	--	--	--	--	8,220	
Twelve Mile Point	83.5	R	--	--	--	--	--	--	--	1,300	
Merrit	83.0	L	--	--	--	--	--	--	--	7,800	
Saxonholm-Docville	82.5	L	--	--	--	--	--	--	--	7,700	
Naval Depot	82.5	R	--	--	--	--	--	--	--	3,096	
Caernarvon	81.2	L	--	--	--	--	--	--	--	13,200	

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement		Maintenance (Tons of Stone)		
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Tons of Stone)	(Linear Feet)	(Tons of Stone)			
Foreshore Protection:										
English Turn	79.3	L	--	--	--	--	--	--	--	7,500
Little Rock	78.8	R	--	--	--	--	--	--	--	9,268
St. Claire	78.3	L	--	--	--	--	--	--	--	1,025
Fort St. Leon	78.2	R	--	--	--	--	--	--	--	10,700
Scarsdale	75.5	L	--	--	--	--	--	--	--	16,611
Belle Chasse	75.5	R	--	--	--	--	--	--	--	11,500
Stella-Delcour	73.6	L	--	--	--	--	--	--	--	6,405
Oak Point	73.3	R	--	--	--	--	--	--	--	13,766
Promised Land-Woodlawn	70.5	L	--	--	--	--	--	--	--	15,495
Augustaive Oak	70.5	R	--	--	--	--	--	--	--	13,135
Jesuit Bend	69.2	R	--	--	--	--	--	--	--	16,454
Fanny-Belair	66.8	L	--	--	--	--	--	--	--	12,400
Sara-Star	66.3	R	--	--	--	--	--	--	--	2,100
Star	65.8	R	--	--	--	--	--	--	--	5,470
Bayhi	64.0	R	--	--	--	--	--	--	--	11,190
Burbridge	63.2	L	--	--	--	--	--	--	--	12,335
Beau-Carlisle	62.3	L	--	--	--	--	--	--	--	6,258
Alliance	62.0	R	--	--	--	--	--	--	--	4,300
Monsecour-Poverty Point	60.3	L	--	--	--	--	--	--	--	7,380
St. Rosalie	61.4	R	--	--	--	--	--	--	--	6,976
Irontown	60.0	R	--	--	--	--	--	--	--	2,298
Myrtle Grove-Woodpark	58.8	R	--	--	--	--	--	--	--	8,450
Harlem	57.0	L	--	--	--	--	--	--	--	15,550
Wood Park-Deer Range	56.0	R	--	--	--	--	--	--	--	17,650
Nero	54.7	L	--	--	--	--	--	--	--	4,450
Deer Range	54.1	R	--	--	--	--	--	--	--	4,220
Upper Point-Aa-Hache	53.5	L	--	--	--	--	--	--	--	9,101
Junior	53.5	R	--	--	--	--	--	--	--	7,811
Point Celeste	52.2	R	--	--	--	--	--	--	--	3,300

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			Construction			Reinforcement	Maintenance			
			New Work		(tons of Stone)					
			Exten- sion (Linear Feet)	Lap (Linear Feet)						
Foreshore Protection:										
Davant	51.5	L	--	--	--	--	--	--	--	10,795
St. Thomas	50.0	L	--	--	--	--	--	--	--	6,430
Woodland	50.0	R	--	--	--	--	--	--	--	14,800
Point-Aa-Hache	48.1	L	--	--	--	--	--	--	--	23,030
Nolan	47.2	R	--	--	--	--	--	--	--	13,400
Socola	46.5	R	--	--	--	--	--	--	--	8,255
Point Michel	44.2	R	--	--	--	--	--	--	--	7,350
Happy Jack	43.0	R	--	--	--	--	--	--	--	18,785
Port Sulphur	39.7	R	--	--	--	--	--	--	--	6,430
Little Texas	39.0	R	--	--	--	--	--	--	--	300
Home Place	37.6	R	--	--	--	--	--	--	--	13,250
Naim	34.5	R	--	--	--	--	--	--	--	5,915
Sixty Mile Point	32.1	R	--	--	--	--	--	--	--	0
Tropical Bend	31.2	R	--	--	--	--	--	--	--	5,775
Bowers	30.8	R	--	--	--	--	--	--	--	3,836
Empire	29.7	R	--	--	--	--	--	--	--	2,865
Anderson	29.2	R	--	--	--	--	--	--	--	6,100
Fredrick	27.5	R	--	--	--	--	--	--	--	3,820
Buras	26.0	R	--	--	--	--	--	--	--	13,495
Lower Buras	24.0	R	--	--	--	--	--	--	--	8,900
Triumph	22.5	R	--	--	--	--	--	--	--	5,220
Fort Jackson	21.9	R	--	--	--	--	--	--	--	16,690
Grand Prairie	19.2	L	--	--	--	--	--	--	--	1,350
Upper Commander	18.2	R	--	--	--	--	--	--	--	3,180
Commander	18.0	R	--	--	--	--	--	--	--	22,232

**TABLE 41-H
(Continued)**

**BANK REVETMENTS, DIKES, AND FORESHORE PROTECTION:
NEW ORLEANS DISTRICT (FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank R or L	Operations This FY						Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			Construction			Maintenance (Tons of Stone)	Reinforcement			
			Exten sion (Linear Feet)	Lap (Linear Feet)	(Tons of Stone)		(Linear Feet)	(Tons of Stone)		
Foreshore Protection:										
Boothville-Commander	16.0	R	--	--	--	--	--	--	--	1,824
Upper Venice	12.0	R	--	--	--	--	--	--	--	14,800
Total Foreshore Protection										
New Orleans District, Mississippi River			0	--	--	--	--	--	--	757,309
			0.0 Miles							(143.43 Miles)

1. Gross squares articulated concrete mattress (100 square feet).

TABLE 41-I

BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)

Location	Above Head of Passes (Miles)	Bank or R L	Operations This FY Construction					Maintenance (Squares) ¹	Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
MISSISSIPPI RIVER										
Standard Revetment:										
Bougere Bend, LA	329	R	--	--	--	--	--	--	--	29419
Dead Mans Bend, MS	335	L	--	--	--	--	--	--	--	33,220
Glasscock Cutoff, MS-LA.....	342	R	--	--	--	--	--	--	--	26,083
Railroad Landing, MS.....	346	L	--	--	--	--	--	11,512	--	16,291
St. Catherine Bend, LA	350	R	--	--	--	--	--	--	--	29,108
Morville, LA	356	R	--	--	--	--	--	--	--	16,917
Natchez Island, MS	357	R	--	--	--	--	--	--	--	2,180
Carthage, MS	361	L	--	--	--	--	--	--	--	20,350
Vidalia Casting Field.....	363	L	--	--	--	--	--	--	--	2,670
Natchez Front, MS	364	L	--	--	--	--	--	--	--	6,510
Giles Cutoff, LA-MS.....	366	R	--	--	--	--	--	--	--	12,020
Gibson, LA.....	371	R	--	--	--	799	3,308	4,206	--	--
Ashland, LA-MS	374	L	--	--	--	--	--	--	--	33,427
Kempe Bend, LA	383	R	--	--	--	--	--	9,116	--	30,087
Browns Field, LA.....	389	R	--	--	--	--	--	--	--	9,280
Goldbottom, MS.....	392	L	--	--	--	--	--	--	--	30,250
Hardscrabble, LA	398	R	--	--	--	--	--	--	--	22,530
Grand Gulf, MS.....	403	L	--	--	--	--	--	--	--	57,318
Point Pleasant, MS-LA.....	413	R	--	--	--	--	--	--	--	32,345
Togo Island, LA	415	R	--	--	--	1,163	8,765	3,993	--	7,080
Lake Karnac, LA-MS	419	L	--	--	--	--	--	--	--	19,260
Diamond Point, LA-MS	423	R	--	--	--	--	--	--	--	19,310
Oakbend, MS	425	L	--	--	--	--	--	--	--	5,342
Reid-Bedford, LA	429	R	--	--	--	--	--	--	--	18,392
Racetrack, MS	433	L	--	--	--	--	--	--	--	15,517
Barge Line Terminal, MS.....	437	L	--	--	--	--	--	--	--	3,040
Vicksburg Harbor, MS.....	437	L	--	--	--	--	--	--	--	7,350
Delta Point, LA	437	R	--	--	--	--	--	--	--	7,650

**TABLE 41-I
(Continued)**

**BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY					Maintenance (Squares) ¹	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Standard Revetment:										
King's Point—Opposite Delta Point, LA-MS	439	L	--	--	--	--	--	--	19,330	
False Point, LA.....	443	R	--	--	--	--	--	--	16,360	
Marshall-Brown's Point, LA-MS	446	L	--	--	--	--	--	--	19,580	
Milliken Bend, LA	453	R	--	--	--	--	--	--	46,140	
Belle Island, LA-MS	460	L	--	--	--	--	--	--	24,160	
Goodrich, LA	467	R	--	--	--	--	--	--	40,765	
Cottonwood Bar, MS.....	470	R	--	--	--	--	--	--	18,580	
Filter-Cottonwood, MS	474	L	--	--	--	--	--	--	44,220	
Hagaman, LA	481	R	--	--	--	--	--	--	37,756	
Ben Lomond, MS.....	486	L	--	--	--	--	--	--	10,235	
Baleshed Towhead-Stack Island, LA-MS.....	488	R	--	--	--	--	--	--	53,214	
Lake Providence, LA.....	489	R	--	--	--	--	--	--	11,600	
Mayersville, MS.....	497	L	--	--	--	--	--	--	34,992	
Sarah Island-Opossum Point, LA-MS.....	501	R	--	--	--	--	--	--	26,815	
Carolina, MS	507	L	--	--	--	--	--	--	12,905	
Cracraft, AR	511	R	--	--	--	3,645	15,658	--	22,210	
Worthington, MS-AR	514	R	--	--	--	--	--	--	8,350	
Walnut Point Kentucky Bend, MS .	519	L	--	--	--	--	--	--	45,653	
American Cutoff, MS-AR	526	L	--	--	--	--	--	--	2,980	
Sunnyside-Lakeport, AR	530	R	--	--	--	--	--	--	33,685	
Refuge, AR.....	531	L	--	--	--	--	--	--	3,132	
Vancluse, AR.....	534	R	--	--	--	--	--	--	13,016	
Island 84, AR-MS.....	535	L	--	--	--	--	--	--	13,475	
Warfield Point, MS.....	537	L	--	--	--	--	--	--	4,320	
Leland-LaGrange, AR-MS	538	L	--	--	--	--	--	--	14,150	

**TABLE 41-I
(Continued)**

**BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY					Maintenance (Squares) ¹	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Standard Revetment:										
Spanish Moss, AR	539	R	--	--	--	--	--	--	4,580	
Tarpley Island, MS	542	R	--	--	--	--	--	--	2,000	
Miller Bend, MS.....	544	L	--	--	--	--	--	--	29,360	
Island 82, AR.....	546	R	--	--	--	--	--	--	3,080	
Ashbrook Island, MS.....	549	R	--	--	--	--	--	--	3,455	
Arkansas City-Yellow Bend, AR.....	553	R	--	--	--	--	--	--	48,386	
Huntington Point, MS	556	L	--	--	--	--	--	--	21,205	
Pair O'Dice, AR	561	R	--	--	--	--	--	--	9,095	
Eutaw-Mounds, MS	563	L	--	--	--	4,343	18,992	8,432	40,188	
Cypress Bend, AR	568	R	--	--	--	--	--	12,790	34,405	
Catfish Point, MS	573	L	--	--	--	--	--	--	20,075	
Ozark, AR-MS.....	578	R	--	--	--	--	--	--	22,015	
Prentiss, AR-MS.....	582	L	--	--	--	--	--	--	20,315	
Rosedale Bend, AR	585	L	2,721	209	9,518	--	--	--	8,022	
Riverton, MS.....	586	L	--	--	--	--	--	--	12,500	
Klondike, AR	588	R	--	--	--	--	--	--	25,295	
Victoria Bend-Terrene, MS	593	L	--	--	--	--	--	--	29,245	
Lake Concordia, MS	596	L	--	--	--	--	--	--	14,703	
Big Island, AR.....	598	R	--	--	--	--	--	--	16,515	
Smith Point, MS.....	601	L	--	--	--	--	--	--	18,185	
Dennis, MS.....	611	L	--	--	--	--	--	--	25,195	
Cessions, MS.....	615	L	--	--	--	--	--	--	10,910	
Total Revetment, Vicksburg District, Mississippi River.....			2,721	209	9,518	9,950	46,723	50,049	--	1,538,01 (291.29 Miles)

**TABLE 41-I
(Continued)**

**BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Dikes:					(2)		(3)			
Jackson Point, MS	330	L	--	--	--	--	--	--	4,306	
Buck Island, MS.....	339	L	--	--	--	--	--	--	6,334	
Opposite Warnicott Ldg., MS.....	352	L	--	--	--	--	--	--	10,791	
Natchez Island, LA-MS.....	358	R	--	--	--	--	--	--	14,608	
Opposite Rifle Point, MS	369	L	--	--	--	--	--	--	3,214	
Rifle Point, LA	369	R	--	--	--	--	--	--	4,197	
Waterproof Bar, LA.....	379	R	--	--	--	--	--	--	14,580	
Spithead Towhead, MS.....	386	L	--	--	--	--	--	--	9,681	
Browns Field, LA.....	388	R	--	--	--	--	--	--	11,557	
Cottage Bend, LA-MS.....	389	L	--	--	--	--	--	--	14,049	
Bondurant Towhead, LA	394	R	--	--	--	--	--	--	6,029	
Coffee Point, LA	405	R	--	--	--	--	--	--	11,925	
Yucatan, MS	410	R	--	--	--	--	--	--	13,932	
Togo Island, LA	416	L	--	--	--	--	--	--	8,256	
Newtown Bend, LA.....	420	R	--	--	--	--	--	--	6,739	
Diamond Cutoff, MS.....	423	L	--	--	--	--	--	--	6,711	
Below Racetrack, MS.....	430	L	--	--	--	--	--	--	19,378	
Racetrack Towhead, MS.....	431	R	--	--	--	--	--	--	15,270	
Delta Point, LA	439	R	--	--	--	--	--	--	7,840	
False Point, LA.....	441	R	--	--	--	--	--	--	5,675	
Marshall Cutoff, LA.....	448	R	--	--	--	--	--	--	5,166	
Below Grand Gulf, MS	399	L	--	--	--	--	--	--	4,783	
Fritz Island, LA	338	R	--	--	--	--	--	--	4,160	
Forest Home Towhead, LA	449	L	--	--	--	--	--	--	15,873	
Willow Cutoff, LA	462	R	--	--	--	--	--	--	5,197	
Tennessee Bar, MS	465	L	--	--	--	--	--	--	8,166	
Arcadia Point, MS.....	470	L	--	--	--	--	--	--	9,463	
Cottonwood Bar, MS.....	471	R	--	--	--	--	--	--	5,876	
Point Lookout, LA	478	R	--	--	--	--	--	--	2,751	

**TABLE 41-I
(Continued)**

**BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Dikes:					(2)		(3)			
Ajax Bar, MS.....	482	L	--	--	--	--	--	--	28,152	
Ben Lomond, MS.....	488	L	--	--	--	--	--	--	24,667	
Baleshed Ldg., MS.....	493	L	--	--	--	--	--	--	15,721	
Wilson Point, LA.....	500	R	--	--	--	--	--	--	8,423	
Corregidor, MS.....	505	L	--	--	--	--	--	--	6,730	
Carolina, AR.....	509	L	--	--	--	--	--	--	2,897	
Cracraft Lower, AR.....	510	R	--	--	--	--	--	--	10,329	
Cracraft, AR.....	513	R	--	--	--	--	--	--	3,809	
Leota, MS.....	514	L	--	--	--	--	--	--	7,571	
Island 86, AR.....	520	R	--	--	--	--	--	--	18,477	
Seven Oaks, AR.....	523	R	--	--	--	--	--	--	10,263	
Walnut Point, MS.....	525	L	--	--	--	--	--	--	7,005	
Anconia Chute, AR.....	527	R	--	--	--	--	--	--	8,583	
Refuge, MS.....	528	L	--	--	--	--	--	--	19,695	
Island 84, AR.....	532	L	--	--	--	--	--	--	12,875	
Vaucluse, AR.....	533	R	--	--	--	--	--	--	7,114	
Warfield Point, AR.....	535	L	--	--	--	--	--	--	2,020	
Leland Bar, AR-MS.....	538	R	--	--	--	--	--	--	15,086	
Leland Neck, AR-MS.....	540	L	--	--	--	--	--	--	4,315	
Tarpley Cutoff, MS-AR.....	540	R	--	--	--	--	--	--	10,478	
Tarpley Island, MS-AR.....	542.4	R	--	--	--	--	--	--	6,050	
Island 82-Miller Bend, AR-MS.....	544	R&L	--	--	--	--	--	--	13,646	
Ashbrook-Miller Bend, AR-MS.....	547	L&R	--	--	--	--	--	--	13,015	
Ashbrook Cutoff, MS.....	549	L	--	--	--	--	--	--	8,728	
Below Yellow Bend, AR-MS.....	549.4	R	--	--	--	--	--	--	2,100	
Chicot Ldg., AR.....	564	R	--	--	--	--	--	--	22,381	
Catfish Point, MS.....	571	L	--	--	--	--	--	--	5,290	
Below Prentiss, MS.....	580	L	--	--	--	--	--	--	12,413	

**TABLE 41-I
(Continued)**

**BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Dikes:					(2)	(3)				
Above Ozark, AR-MS	580	R	--	--	--	--	--	--	5,545	
Malone Field, AR	585	R	--	--	--	--	--	--	7,549	
Terrene, MS	590	L	--	--	--	--	--	--	11,025	
White River Landing, AR	591	R	--	--	--	--	--	--	2,201	
Montgomery Towhead, AR	592	R	--	--	--	--	--	--	8,647	
Victoria Bend, AR	596	R	--	--	--	--	--	--	9,202	
Smith Point, MS	600	L	--	--	--	--	--	--	7,617	
Island 70, MS	608	L	--	--	--	--	--	--	26,355	
Total Dikes, Vicksburg District, Mississippi River			0 (0 Mi)	--	--	--	--	--	654,593 (123.98 Mi)	
	<u>Miles Above Mouth</u>									
ARKANSAS RIVER ⁴										
Standard Revetment:										
Menard Bend, AR	31	L	--	--	--	--	--	--	11,770	
Como, AR	34	R	--	--	--	--	--	--	11,720	
Morgan Bend, AR	36	L	--	--	--	--	--	--	5,250	
Yancopin, AR	24	R	--	--	--	--	--	--	2,800	
Total Standard Revetment, Arkansas River			--	--	--	--	--	--	31,540 (5.97 Mi)	

**TABLE 41-I
(Continued)**

**BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Above Conflu- ence with Miss. River (Miles)	Bank R or L	Operations This FY Construction					<u>Maintenance</u> (Squares) ¹	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Dikes:					(2)	(3)				
Hopedale Cutoff, AR.....	30	R	--	--	--	--	--	--	1,848	
Morgan Bend, AR	36	L	--	--	--	--	--	--	3,658	
Fletcher Bend, AR.....	39	R	--	--	--	--	--	--	2,187	
Total Dikes, Arkansas River.....			--	--	--	--	--	--	7,693 (1.46 Mi)	
RED RIVER⁴										
Standard Revetment:										
Dupre, LA	69	R	--	--	--	--	--	--	2,690	
Bringol, LA	73	R	--	--	--	--	--	--	4,000	
Egg Bend, LA	75	R	--	--	--	--	--	--	2,400	
Cologne Bend, LA	77	R	--	--	--	--	--	--	650	
Roxana, LA	83	R	--	--	--	--	--	--	3,325	
Ryland, LA.....	88	R	--	--	--	--	--	--	3,925	
Whittington, LA	89	R	--	--	--	--	--	--	2,900	
Smith, LA.....	91	R	--	--	--	--	--	--	2,700	
Latanier, LA	93	R	--	--	--	--	--	--	2,460	
Hudson, LA	99	R	--	--	--	--	--	--	1,458	
Robert, LA	102	R	--	--	--	--	--	--	5,500	
Alexandria Front, LA	105	R	--	--	--	--	--	--	5,280	
Callahan, LA	110	R	--	--	--	--	--	--	4,000	
Cotton, LA	116	R	--	--	--	--	--	--	14,700	
Rapides, LA	119	R	--	--	--	--	--	--	1,030	
Boyce, LA	125	R	--	--	--	--	--	--	4,548	
Total Standard Revetment, Red River			--	--	--	--	--	--	61,566 (11.66 Mi)	

TABLE 41-I BANK REVETMENTS AND DIKES: VICKSBURG DISTRICT (FISCAL YEAR 2008)

Location	Above Confluence with Miss. River (Miles)	Bank R or L	Operations This FY Construction						Maintenance (Squares) ¹	Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement					
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹				
Dikes: ⁶					(2)			(3)			
Choctaw Bayou Bend, LA.....	71	R	--	--	--	--	--	--	--	2,000	
Bringol (Egg Bend), LA.....	73	R	--	--	--	--	--	--	--	2,477	
Egg Bend, LA	75	R	--	--	--	--	--	--	--	900	
Cologne Bend, LA	77	R	--	--	--	--	--	--	--	1,850	
Echo, LA	78	R	--	--	--	--	--	--	--	1,900	
Richardson, LA	79	R	--	--	--	--	--	--	--	2,700	
Alexandria, LA.....	105	R	--	--	--	--	--	--	--	--	
Bertrand, LA	122	R	--	--	--	--	--	--	--	7,630	
Dismal Swamp, LA.....	24	L	--	--	--	--	--	--	--	1,411	
Total Dikes, Red River			--	--	--	--	--	--	--	20,868 (3.95 Mi)	

1. Gross squares articulated concrete mattress (100 square feet).
2. Linear feet of dike which were raised.
3. Linear feet of dike on which repairs were made.
4. See report on Arkansas River and tributaries, AR and OK, under Little Rock District.
5. Mileages based on 1967 hydrographic survey.
6. Includes all types of dikes and retards.
7. Stone paving only.

TABLE 41-J

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
MISSISSIPPI RIVER										
Standard Revetment:										
Big Island, AR.....	598	R	--	--	--	--	--	--	5,935	
Scrubgrass Bend, AR.....	600	R	1,087	135	4,360	--	--	--	8,635	
Henrico, AR	606	R	--	--	--	--	--	--	33,310	
Cessions Towhead, AR.....	615	L	--	--	--	--	--	--	11,465	
Island 67, MS	621	L	--	--	--	--	--	--	14,630	
Island 68 Bar—										
Knowlton, AR	622	R	--	--	--	--	--	--	26,710	
Ludlow, AR	626	R	--	--	--	--	--	--	10,390	
Chute of Island 64, AR-MS.....	628	R	--	--	--	--	--	--	4,180 ⁷	
Rescue Land, AR-MS.....	629	L	--	--	--	--	--	--	27,020	
Fair Landing, AR.....	632	R	--	--	--	--	--	--	27,515	
Burke Landing, MS	637	L	--	--	--	--	--	--	19,070	
Island 62, AR.....	638	R	--	--	--	--	--	--	9,030	
Island 63, MS	639	L	--	--	--	--	--	--	11,514	
Island 63 Bar, MS.....	639	L	--	--	--	--	--	--	3,795	
Oldtown Bend, AR.....	644	R	--	--	--	--	--	--	28,420	
Horseshoe, MS	647	L	--	--	--	--	--	--	16,385	
Westover, AR.....	650	R	--	--	--	--	--	--	15,640	
Delta-Friars Point, MS	653	L	--	--	--	--	--	--	30,090	
Helena, AR.....	660	R	--	--	--	--	--	--	36,460	
Helena Towhead, AR.....	664	R	--	--	--	--	--	--	3,690	
Trotters Landing, MS	665	L	--	--	--	--	--	--	38,685	
Flower Lake, MS.....	667	L	--	--	--	--	--	--	16,385	
St. Francis, AR	672	R	--	--	--	--	--	--	24,663	
Harbert Point, MS	675	L	--	--	--	--	--	--	9,065	
Walnut Bend, AR.....	680	R	--	--	--	--	--	--	31,070	
Mhoon Bend, MS	685	L	--	--	--	--	--	--	46,340	
Peters, AR.....	692	R	--	--	--	--	--	--	33,760	
Commerce, MS	695	L	--	--	--	--	--	6,672	29,085	
Porter Lake, AR.....	700	R	--	--	--	--	--	--	34,155	

**TABLE 41-J
(Continued)**

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Standard Revetment:										
Pickett, MS-AR	703	R	--	--	--	--	--	--	--	12,575
Seyppel, AR	709	R	--	--	--	--	--	--	--	4,830
Norfolk-Star, MS	711	L	--	--	--	--	--	--	--	39,505
Cow Island Bend, AR	714	R	--	--	--	--	--	--	--	22,274
Cow Island Bend (Upper), TN	716	R	--	--	--	--	--	--	--	8,623
Coahoma, TN	717	L	--	--	--	--	--	--	--	9,270
Ensley, TN	723	L	--	--	--	--	--	--	--	46,256
Dismal Point, AR	724	R	--	--	--	--	--	--	--	7,200
Bauxippi-Wyanoke, AR	730	R	--	--	--	--	--	--	--	26,425
Presidents Island, TN	733	L	--	--	--	--	--	--	--	12,755
Hopefield Point, AR-TN	736	R	--	--	--	--	--	--	--	10,360
Loosahatchie-Memphis, TN	737	L	--	--	--	--	--	--	--	31,293
Loosahatchie Bar, TN	740	R	--	--	--	--	--	--	--	2,070
St. Clair, AR	742	R	--	--	--	--	--	--	--	2,930
Island 40, TN-AR	744	R	--	--	--	--	--	--	--	30,750
Brandywine, AR-TN	750	R	--	--	--	--	--	--	--	18,010
Shelby Forest, TN	753	L	--	--	--	--	--	--	--	9,545
Dean Island, AR	756	R	--	--	--	--	--	--	--	7,555
Cedar Point-Densford, TN	759	L	--	--	--	--	--	--	--	21,100
Chute of Island 35, TN	764	R	--	--	--	--	--	--	--	30,930
Richardson Ldg, TN	769	L	--	--	--	--	--	--	--	2,855
Randolph, TN	771	L	5,700 ⁹	--	--	--	--	--	--	5,700 ¹⁰
Lookout Bar, TN	772	R	--	--	--	--	--	--	--	2,990
Lookout, TN	774	R	--	--	--	--	--	--	--	5,005
Sunrise Towhead, TN	776	R	--	--	--	--	--	--	--	18,440
Driver Bar, TN	780	L	--	--	--	--	--	--	--	7,360
Lower Bullerton, AR	782	R	--	--	--	--	--	--	--	28,350
Kate Aubrey Towhead- Island 30, TN	786	R	--	--	--	--	--	--	--	30,808
Osceola Grions, AR	786	R	--	--	--	--	--	--	--	1,350 ³

**TABLE 41-J
(Continued)**

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Standard Revetment:										
Osceola, AR	787	R	--	--	--	--	--	--	5,823	
Ashport-Keyes Point, TN	791	L	--	--	--	--	--	--	44,232	
Kate Aubrey, TN	793	R	--	--	--	--	--	--	2,500	
Island 26, TN	798	R	--	--	--	--	--	--	15,690	
Bend of Island 25, TN	803	L	--	--	--	--	--	--	32,385	
Barfield, AR	808	R	--	--	--	--	--	--	52,335	
Obion-Tamm, TN	819	L	--	--	--	--	--	--	55,651	
Huffman-Hickman, AR-TN	826	R	--	--	--	--	--	--	29,764	
Heloise, TN	831	L	--	--	--	--	--	--	17,935	
Island 18, MO	836	R	--	--	--	--	--	--	30,490	
Linwood Bend, TN	841	L	--	--	--	--	--	--	14,850	
Blaker Towhead, TN	845	L	--	--	--	--	--	--	18,562	
Bells Point, MO	845	R	--	--	--	--	--	--	5,420	
Gayoso-Caruthersville, MO	848	R	--	--	--	--	5,683	--	25,600	
Island 15, TN	851	L	--	--	--	--	--	--	3,630	
Hathaway Landing, TN	852	L	--	--	--	--	--	--	1,000	
Robinson Bayou, MO	852	R	--	--	--	--	--	--	22,630	
Fritz Landing, TN	857	L	--	--	--	--	--	--	15,670	
Lee Towhead, MO	859	L	--	--	--	--	--	--	9,640	
Bend of Island 14, TN	859	L	--	--	--	--	--	--	15,830	
Above Lee Towhead, TN	861	L	--	--	--	--	--	--	4,943	
Little Cypress, MO	864	R	--	--	--	--	--	--	40,140	
Merriwether-Cherokee, TN	869	L	2,213 ¹⁰	30	2,879	--	--	9,246	43,271	
Linda, MO	876	R	--	--	--	--	--	--	20,000	
Below Toney's Towhead, TN	879	L	--	--	--	--	--	--	20,895	
Toney's Towhead, KY-TN	882	L	--	--	--	--	--	--	13,640	
Kentucky Point, KY	887	L	--	--	--	--	--	--	7,960	
New Madrid Bar, KY	888	R	--	--	--	--	--	--	16,825	

**TABLE 41-J
(Continued)**

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank R or L	Operations This FY Construction					<u>Maintenance</u> (Squares) ¹	Non- Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Exten- sion (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Standard Revetment:										
New Madrid Bend, MO.....	889	R	--	--	--	--	--	--	--	43,262
La Forge, MO.....	892	R	--	--	--	--	--	--	--	24,930
Slough Landing Neck, TN-KY	899	L	--	--	--	--	--	--	--	37,520
Winchester Towhead, MO.....	900	R	--	--	--	--	--	--	--	5,540
Island 9, KY-TN	905	L	--	--	--	--	--	--	--	33,585
Milton Bell, MO.....	908	R	--	--	--	--	--	--	--	16,600
Chute of Island 8, KY	913	L	--	--	--	--	--	--	--	12,620
Bend of Island 8, MO.....	914	R	--	--	--	--	--	--	--	39,945
Island 8, KY	914	R	--	--	--	--	--	--	--	18,515
Hickman-Reelfoot, KY	919	L	--	--	--	--	--	--	--	46,399
Hickman Bar, KY.....	921	L	--	--	--	--	--	--	--	1,940
Beckwith Bend, MO.....	924	R	--	--	--	--	--	--	--	20,155
Williams, KY	927	L	--	--	--	--	--	--	--	10,015
Wolf Island, KY	934	R	3,419	125	8,923	--	--	4,455	--	25,914
Columbus, KY.....	937	L	--	--	--	--	--	--	--	7,395
Belmont, MO	938	R	--	--	--	--	--	--	--	5,785
Island 3 and 4, KY	940	R	--	--	--	--	--	--	--	19,970
Campbell, KY	943	L	--	--	--	--	--	--	--	6,865
Pritchard, MO.....	948	R	--	--	--	--	--	--	--	15,045
Mayfield Creek, KY	949	L	--	--	--	--	--	--	--	8,935
Wickliffe, KY.....	953	L	--	--	--	--	--	--	--	16,150
Cache-Cairo, IL (Ohio River).....	958	R	--	--	--	--	--	11,602	--	29,927
Total Revetment, Memphis District, Mississippi River.....			12,419 (2.35 Mi)	290	16,162	--	--	31,788	--	2,099,616 (397.65 Mi)

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**TABLE 41-J
(Continued)**

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Dikes:					(⁸)		(⁶)			
Big Island Bendway Weirs, AR.....	600	R	--	--	--	--	--	--	4,105	
Henrico, AR	603	R	--	--	--	--	--	--	9,080	
Below Knowlton, AR	616	R	--	--	--	--	--	--	21,810	
Island 67, MS	621	L	--	--	--	--	--	--	4,320	
Below Ludlow, AR.....	624	R	--	--	--	--	--	--	5,040	
Sunflower, AR.....	627	L	--	--	--	--	--	--	5,520	
Island 64, AR.....	630	R	--	--	--	--	--	--	7,330	
Rescue Landing, MS	631	L	--	--	--	--	--	--	2,530	
Island 62, AR.....	638	R	--	--	--	--	--	--	23,180	
Island 63 Bar, MS.....	639	L	--	--	--	--	--	--	2,600	
Island 63, MS	640	L	--	--	--	--	--	--	5,640	
Old Town Bend, MS.....	646	R	--	--	--	--	--	--	1,195	
Kangaroo Point, AR	649	R	--	--	--	--	--	--	6,580	
Friars Point, MS	652	L	--	--	--	--	--	--	6,870	
Montezuma Bar, MS	657	L	--	--	--	--	--	--	17,970	
Montezuma Towhead, AR.....	656	R	--	--	--	--	--	--	6,700	
Prairie Point, AR	668	R	--	--	--	--	--	--	10,391	
Flower Lake, MS.....	668	L	--	--	--	--	--	--	11,060	
St. Francis Towhead	671	L	--	--	--	--	--	--	3,380	
Below Walnut Bend, AR	676	R	--	--	--	--	--	--	8,340	
Boreaux Point, MS	681	L	--	--	--	--	--	--	10,730 ²	
Walnut Bend, AR.....	682	R	--	--	--	--	--	--	6,390	
Peters, AR.....	693	R	--	--	--	--	300	--	7,830	
Commerce, MS	694	L	--	--	--	--	--	--	10,745	
Basket Bar, AR.....	696	R	--	--	--	--	--	--	6,340	
Buck Island, MS.....	700	L	--	--	--	--	--	--	4,705	
Porter Lake, AR.....	701	R	--	--	--	--	--	--	23,115	
Pickett, MS.....	704	L	--	--	--	--	750	--	10,080	
Seyppel, AR	706	R	--	--	--	--	--	--	16,230	
Norfolk Star, MS	708	L	1,915	--	--	--	--	--	1,915	
Cat Island , AR	710	R	--	--	--	--	--	--	1,380	

**TABLE 41-J
(Continued)**

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY Construction					Maintenance (Squares) ¹	Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			New Work			Reinforcement				
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹			
Dikes:					(⁸)		(⁶)			
Island 47, MS	713	L	--	--	--	--	--	--	16,355	
Coahoma, TN	718	L	--	--	--	--	--	--	4,640	
Armstrong, AR-TN	720	R	--	--	--	--	--	--	21,240	
Below Ensley, TN	721	L	--	--	--	--	--	--	915	
Dismal Point, AR	724	R	--	--	--	--	--	--	30,950	
Engineers Bar, AR.....	734	R	--	--	--	--	--	--	4,155	
Hopefield Point, AR.....	736	R	--	--	--	--	--	--	5,350	
Memphis Front, TN.....	736	L	--	--	--	--	--	--	6,300	
Robinson Crusoe, TN.....	738	R	--	--	--	--	--	--	21,939	
Loosahatchie Bar, TN.....	739	R	--	--	--	--	--	--	3,950	
Sycamore Chute, AR-TN	741	R	--	--	--	--	--	--	6,725	
Above Loosahatchie, TN.....	742	L	--	--	--	--	--	--	12,295	
Redman Point, AR.....	743	R	--	--	--	--	--	--	7,750	
Randolph Point, TN.....	747	L	--	--	--	--	--	--	16,940	
Poker Point, AR.....	748	R	--	--	--	--	--	--	8,060	
Shelby Forest, TN	751	L	--	--	--	--	400	--	5,540	
Corona Bar, TN-AR	755	R	--	--	--	--	--	--	9,400	
Densford, TN.....	757	L	--	--	--	--	--	--	7,780	
Cedar Point, TN	759	L	--	--	--	--	--	--	2,890	
Below Richardson Landing, TN....	767	L	--	--	--	--	--	--	5,950	
Lookout, TN-AR	771	R	--	--	--	--	--	--	20,130	
Randolph, TN.....	772	L	--	--	--	--	--	--	17,005	
Hatchie Towhead, TN.....	773	L	--	--	--	--	--	--	3,300	
Below Sunrise, AR	774	R	--	--	--	--	--	--	1,975	
Driver Bar, AR	780	L	--	--	--	--	--	--	6,360	
Lower Bullerton, AR.....	781	R	1,310	--	--	--	--	--	4,125	
Plum Point, TN.....	784	L	4,168	--	--	--	--	--	14,363	
Lake Neark, AR.....	786	R	--	--	--	--	--	--	2,545	
Island 30.....	787	R	--	--	--	--	--	--	5,485	
Kate Aubrey, TN	791	R	--	--	--	--	--	--	12,260	

**TABLE 41-J
(Continued)**

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY						Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)
			Construction			Maintenance (Squares) ¹	Reinforcement (Linear Feet)	Reinforcement (Squares) ¹		
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹					
Dikes:					(⁸)		(⁶)			
Keyes Point, TN	791	L	--	--	--	--	--	--	31,210	
Ashport-Goldust, TN-AR	795	R	--	--	--	--	--	--	17,330	
Forked Deer, TN.....	798	L	--	--	--	--	--	--	9,540	
Island 25, AR.....	804	R	--	--	--	--	--	--	5,450	
Nebraska Point, TN	808	L	--	--	--	--	--	--	12,149	
Below Tamm Bend, TN.....	813	L	--	--	--	--	--	--	8,300	
Wrights Point, AR	820	R	--	--	--	--	--	--	34,775	
Island 21, Chute, TN	824	L	--	--	--	--	--	--	3,170	
Head of Island 21, TN	828	L	--	--	--	--	450	--	15,540	
Island 20, MO-TN	831	R	--	--	--	--	--	--	21,969	
Island 18, TN.....	837	L	--	--	--	--	--	--	8,670	
Tennemo, TN.....	842	L	--	--	--	--	--	--	8,240	
Blaker Towhead, TN	843	L	--	--	--	--	--	--	4,080	
Caruthersville-Linwood Bend, MO	844	R	--	--	--	--	--	--	30,590	
Opposite Caruthersville, TN.....	846	L	--	--	--	--	--	--	3,300	
Sandy Hook, TN.....	850	R	--	--	--	--	--	--	2,350	
Island 15, TN.....	851	L	--	--	--	--	--	--	8,830	
Robinson Bayou, MO.....	853	R	--	--	--	--	--	--	10,768	
Hathaway, TN	854	L	--	--	--	--	400	--	27,355	
Island 15 Neck, TN	854	L	--	--	--	--	--	--	21,100	
Above Lee Towhead, TN.....	859	L	--	--	--	--	--	--	1,300	
Below Cherokee, TN.....	866	L	--	--	--	--	--	--	6,625	
Stewart Towhead, MO.....	871	R	--	--	--	--	1,100	--	23,160	
Ruddles Point, MO.....	874	R	--	--	--	--	--	--	8,130	
Island 11, MO.....	882	R	--	--	--	--	--	--	14,330	
New Madrid Bend, MO.....	887	R	--	--	--	--	--	--	1,715	
Kentucky Point, KY	887	L	--	--	--	--	--	--	15,610	
Morrison Towhead, MO	890	R	--	--	--	--	--	--	1,070	
Hotchkiss Bend, MO	895	R	--	--	--	--	--	--	14,208	
Slough Landing, KY	896	L	--	--	--	--	300	--	5,065	

**TABLE 41-J
(Continued)**

**BANK REVETMENTS AND DIKES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Above Head of Passes (Miles)	Bank or L	Operations This FY						Non-Operative Since Prior FY (Linear Feet)	Operative Thru This FY (Linear Feet)	
			New Work			Reinforcement					Maintenance (Squares) ¹
			Extension (Linear Feet)	Lap (Linear Feet)	(Squares) ¹	(Linear Feet)	(Squares) ¹	(Squares) ¹			
Dikes:					(⁸)			(⁶)			
Below Island 9, TN	901	L	--	--	--	--	--	--	--	21,989	
Donaldson Point, MO.....	905	R	--	--	--	--	--	--	--	24,275	
Island 9, KY	906	L	--	--	--	--	--	--	--	7,010 ⁵	
Island 7 - Island 8, MO-KY.....	917	R	--	--	--	--	--	200	--	15,345	
Below Williams, KY	925	L	--	--	--	--	--	--	--	3,640	
Moore Island, KY-MO	929	R	--	--	--	--	--	--	--	10,790	
Above Williams, KY	930	L	--	--	--	--	--	--	--	1,150	
Wolf Island Bar, KY.....	933	L	--	--	--	--	--	--	--	12,260	
Campbell, KY	942	L	--	--	--	--	--	--	--	2,610	
Pritchard, MO.....	944	R	--	--	--	--	--	--	--	9,390	
Island 1, KY	948	L	--	--	--	--	--	--	--	18,545	
Total Dikes											
Memphis District, Mississippi River.....			7,393 (1.40 Mi)	--	--	--	--	3,900	0	1,052,706 (199.38 Mi)	

- | | |
|---|---|
| 1. Gross squares articulated concrete mattress (100 square feet). | 6. Linear feet of dike on which repairs were made. |
| 2. Changed to correct previous errors. | 7. Stone paving only. |
| 3. Lumber mattress revetment. | 8. Linear feet of dike which were raised. |
| 4. Rock Groins. | 9. Linear feet of bank protected by stone hard points (38 Total). |
| 5. Linear feet of triangular frame retards and pile dikes. | 10. Stone paving only for upstream 1,414 feet. |

41-76

TABLE 41-K

PROJECT LEVELS: NEW ORLEANS DISTRICT
(FISCAL YEAR 2008)

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ¹ (Miles)				Surfaced Roads on Levees (Miles)			
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- Pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
MAIN STEM LEVEES													
Mississippi River Levees													
Fifth Louisiana Levee District	(16.8)	(13.3)	--	(13.3)	--	--	--	--	--	(15.5)	--	(15.5)	--
Levees.....	15.5	12.0	--	12.0	--	--	--	--	--	15.5	--	15.5	--
Old River structures and levees	1.3	1.3	--	1.3	--	--	--	--	--	--	--	--	--
Atchafalaya Basin Levee District	(126.3)	(122.7)	--	(122.7)	--	(1.0)	--	(1.0)	--	(118.7)	--	(118.7)	--
Levees.....	118.7	115.1	--	115.1	--	1.0	--	1.0	--	118.7	--	118.7	--
Morganza structure and levee.....	0.8	0.8	--	0.8	--	--	--	--	--	--	--	--	--
Morganza forebay levee	6.7	6.7	--	6.7	--	--	--	--	--	--	--	--	--
Port Allen lock.....	0.1	0.1	--	0.1	--	--	--	--	--	--	--	--	--
Lafourche Basin Levee District Levees.....	61.7	61.7	--	61.7	--	0.1	--	0.1	--	61.7	--	61.7	--
Plaquemines West Levee District Levees.....	37.9	37.9	--	37.9 ²	--	--	--	--	--	37.9	--	37.9	--
Buras Levee District.....	(34.1)	(34.1)	--	(34.1)	--	--	--	--	--	(34.0)	--	(34.0)	--
Levees.....	34.0	34.0	--	34.0 ²	--	--	--	--	--	34.0	--	34.0	--
Empire lock	0.1	0.1	--	0.1	--	--	--	--	--	--	--	--	--
Baton Rouge front levees.....	2.1	2.1	0.2	2.1	--	--	--	--	--	2.1	--	2.1	--
Pontchartrain Levee District	(124.9)	(124.9)	--	(124.9)	--	(0.1)	--	--	--	(110.8)	--	(110.8)	--
Levees.....	110.8	110.8	--	110.8	--	0.1	--	--	--	110.8	--	110.8	--
Bonnet Carré guide levees	11.3	11.3	--	11.3	--	--	--	--	--	--	--	--	--
Bonnet Carré forebay levee.....	1.3	1.3	--	1.3	--	--	--	--	--	--	--	--	--
Bonnet Carré structure	1.5	1.5	--	1.5	--	--	--	--	--	--	--	--	--
East Jefferson Levee District Levees.....	11.6	11.6	--	10.8	--	--	--	--	--	11.6	--	11.6	--
West Jefferson Levee District Levees.....	(20.0)	(20.0)	--	(20.0)	--	--	--	--	--	(19.9)	--	(19.9)	--
Levees.....	19.8	19.8	--	19.8	--	--	--	--	--	19.8	--	19.8	--
Floodwalls	0.1	0.1	--	0.1	--	--	--	--	--	0.1	--	0.1	--
Harvey Canal Lock	0.1	0.1	--	0.1	--	--	--	--	--	--	--	--	--

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MISSISSIPPI RIVER COMMISSION

**TABLE 41-K
(Continued)**

**PROJECT LEVELS: NEW ORLEANS DISTRICT
(FISCAL YEAR 2008)**

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ¹ (Miles)				Surfaced Roads on Levees (Miles)			
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
Orleans Levee District.....	(27.2)	(27.2)	--	(24.9)	--	--	--	--	--	(18.4)	--	(18.4)	--
Left descending, east bank	(13.3)	(11.0)	--	(11.0)	--	--	--	--	--	(4.6)	--	(4.6)	--
Levees	4.6	4.6	--	2.3	--	--	--	--	--	4.6	--	4.6	--
Floodwalls	8.6	8.6	--	8.6	--	--	--	--	--	--	--	--	--
IHNC lock	0.1	0.1	--	0.1	--	--	--	--	--	--	--	--	--
Right descending, west bank	(13.9)	(13.9)	--	(13.9)	--	--	--	--	--	(13.8)	--	(13.8)	--
Levees	13.8	13.8	--	13.8	--	--	--	--	--	13.8	--	13.8	--
Algiers Canal lock	0.1	0.1	--	0.1	--	--	--	--	--	--	--	--	--
Lake Borgne Basin Levee District Levees	11.6	11.6	--	11.6	--	--	--	--	--	11.6	--	11.6	--
Grand Prairie Levee District Levees	37.4	37.4	--	37.4	--	--	--	--	--	37.4	--	37.4	--
Total Mississippi River	511.6	501.2	0.2	501.4	--	1.2	--	1.1	--	479.6	--	479.6	--
Other Levees Included in Main Stem													
Louisiana State Pen Levee	12.1	12.1	0	12.1	--	--	--	--	--	--	--	--	--
Atchafalaya Basin Atchafalaya River and Bayou des Glaises	(148.4)	(148.4)	--	(143.3)	--	--	--	--	--	(148.4)	--	(148.4)	--
East Bank Atchafalaya River.....	52.5	52.5	--	52.5	--	--	--	--	--	52.5	--	52.5	--
Bayou des Glaises	7.9	7.9	--	7.9	--	--	--	--	--	7.9	--	7.9	--
West Bank Atchafalaya River.....	60.1	60.1	--	55.0	--	--	--	--	--	60.1	--	60.1	--
Simmesport Ring	1.6	1.6	--	1.6	--	--	--	--	--	1.6	--	1.6	--
Melville Ring	4.1	4.1	--	4.1	--	--	--	--	--	4.1	--	4.1	--
Krotz Springs Ring	1.7	1.7	--	1.7	--	--	--	--	--	1.7	--	1.7	--
Mansura Hills to Hamburg	20.5	20.5	--	20.5	--	--	--	--	--	20.5	--	20.5	--
West protection levee, Hamburg to Berwick drainage canal via Calumet.....	128.7	128.7	--	116.8	4.7	--	--	--	--	128.7	--	128.4	--
Levees west of Berwick, Berwick drainage canal to Charenton drainage canal	56.5	56.5	--	46.2	2.2	--	--	--	--	56.5	--	56.5	--
Morganza upper guide levee	8.9	8.9	--	8.9	--	--	--	--	--	8.9	--	8.9	--

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**TABLE 41-K
(Continued)**

**PROJECT LEVELS: NEW ORLEANS DISTRICT
(FISCAL YEAR 2008)**

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ¹ (Miles)				Surfaced Roads on Levees (Miles)			
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- Pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
East Protection levee, Morganza to Cutoff Bayou, including 19.5 miles of Morganza lower guide levee.....	106.7	106.7	--	100.8	2.6	--	--	--	--	105.0	--	86.0	--
Total Atchafalaya Basin	449.2	449.2	--	416.0	9.5	--	--	--	--	447.5	--	428.2	--
Total Other Levees Included in Main Stem	461.3	461.3	14.0	428.1	--	--	--	--	--	447.5	--	428.2	--
Total-Main Stem Levees	972.9	972.9	14.2	929.5	--	1.2	--	1.1	--	927.1	--	907.8	--
TRIBUTARY LEVEES IN MR&T PROJECT													
Lake Pontchartrain, LA.....	(17.4)	(17.4)	(--)	(17.4)	(--)	(--)	(--)	(--)	(--)	(17.4)	(--)	(17.4)	(--)
Item A levees	5.0	5.0	--	5.0	--	--	--	--	--	5.0	--	5.0	--
Item B levees	10.1	10.1	--	10.1	--	--	--	--	--	10.1	--	10.1	--
Item C levees	2.3	2.3	--	2.3	--	--	--	--	--	2.3	--	2.3	--
Total Tributary Levees in MR&T Project.....	17.4	17.4	--	17.4	--	--	--	--	--	17.4	--	17.4	--
GRAND TOTAL	990.3	990.3	4.4	946.9	14.8	1.2	--	1.1	--	944.5	--	925.2	--

1. Landside seepage berms only.
2. Changed to correct previous error.

TABLE 41-L

PROJECT LEVEES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ¹ (Miles)				Surfaced Roads on Levees (Miles)			
	Authorized for System	Total in This FY	Built This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- Pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
MAIN STEM LEVEES													
Mississippi River Levees													
East bank in Mississippi.....	178.3 ⁴	178.3	0.0	132.3	12.2	156.9	--	135.0	--	174.2	--	174.2	12.2
Greenville Harbor dikes	7.8	7.8	--	7.8	--	--	--	--	--	2.7	--	2.7	--
West bank in Arkansas	75.6	75.6	--	55.0	--	61.3	--	54.3	--	75.4	--	75.4	--
West bank in Louisiana (above Red River)	<u>198.7</u>	<u>198.7</u>	<u>3.7</u>	<u>107.7</u>	<u>18.3</u>	<u>91.0</u>	<u>--</u>	<u>74.9</u>	<u>--</u>	<u>197.8</u>	<u>--</u>	<u>197.8</u>	<u>18.3</u>
Total Mississippi River Levees	460.4	460.4	3.7	302.8	30.5	309.2	--	264.2	--	450.1	--	450.1	30.5
Other Levees Included in Main Stem													
Lower Red River-South Bank Red River levees.....	(59.2)	(59.2)	(--)	(59.2)	(--)	(--)	(--)	(--)	(--)	(59.2)	(--)	(59.2)	(--)
Hotwells to Moncla, LA, levees	59.2	59.2	--	59.2	--	--	--	--	--	59.2	--	59.2	--
Arkansas River, South Bank	<u>85.4</u>	<u>85.4</u>	--	<u>85.4</u>	--	<u>24.7</u>	--	<u>24.7</u>	--	<u>84.1</u>	--	<u>81.1</u>	--
Total Other Levees Included in Main Stem	<u>144.6</u>	<u>144.6</u>	<u>--</u>	<u>144.6</u>	<u>--</u>	<u>24.7</u>	<u>--</u>	<u>24.7</u>	<u>--</u>	<u>143.3</u>	<u>--</u>	<u>140.3</u>	<u>--</u>
Total-Main Stem Levees	605.0	605.0	14.5	438.4	24.8	333.9	--	288.9	--	593.4	--	590.4	16.4
TRIBUTARY LEVEES IN MR&T PROJECT													
Arkansas River, North Bank	61.5 ⁵	56.2	--	56.2	--	8.3	--	8.3	--	47.4	--	47.4	--
Red River Backwater Levees.....	263.6	246.9 ⁷	--	246.9 ⁷	--	--	--	--	--	246.9 ⁷	--	246.9 ⁷	--

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**TABLE 41-L
(Continued)**

**PROJECT LEVEES: VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Levees and Floodwalls (Miles)				Cur- rently Under Con- struction	In System When Com- Pleted	Berm ¹ (Miles)			Surfaced Roads on Levees (Miles)			
	Authorized for System	Built to Approved Grade and Section		Total Thru This FY			Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
		Total in Place This FY	Built This FY										
Yazoo River Basin	624.1	(427.4)	(--)	(237.6)	(--)	(--)	(--)	(--)	(--)	(624.1)	(--)	(338.9)	--
Headwater.....	527.5	375.8	--	186.0	--	--	--	--	--	527.5	--	299.9	--
Backwater.....	<u>96.6</u>	<u>51.6</u>	--	<u>51.6</u>	--	--	--	--	--	<u>96.6</u>	--	<u>39.0</u>	--
Total Tributary Levees in MR&T Project.....	<u>949.2</u>	<u>730.5</u>	--	<u>540.7</u>	--	<u>8.3</u>	--	<u>8.3</u>	--	<u>918.4</u>	--	<u>633.2</u>	--
GRAND TOTAL.....	1,554.2	1,335.5	5.1	951.0	38.1	342.2	--	297.2	--	1,511.8	--	1,223.6	38.1

1. Landside seepage berms only.
2. Levee that has adequate freeboard based on the refined 1973 MR&T project flood flow line for the Mississippi River. Levees with more than 2 feet of freeboard are considered adequate.
3. Subject to change as planning progresses. Does not include existing berms which need restudy.
4. Includes 1.4 miles of concrete floodwall and 0.3 mile of levee on Vicksburg city front.
5. Includes 5.3 miles for Gillett new levee.
6. Relief wells used in place of berms.
7. Changed to correct previous error.

TABLE 41-M

PROJECT LEVEES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section				Berm ⁵ (Miles)				Surfaced Roads on Levees (Miles)				
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
MAIN STEM LEVEES													
Mississippi River													
Mounds, IL	3.9	3.9	--	3.9	--	0.5	--	0.5	--	3.6	--	3.6	--
Mound City, IL	2.7	2.7	--	2.7	--	2.5	--	2.5	--	1.1	--	1.1	--
Cairo Drainage District, IL	13.8 ²	13.8	--	7.8	--	1.6	--	--	--	8.5	--	8.5	--
City of Cairo, IL	6.2	6.2	--	2.2 ⁴	--	4.4	--	2.0	--	4.0	--	3.5	--
Little River Drainage District, MO	19.3	19.3	--	19.3	--	9.7	1.4	6.3	--	19.3	--	19.3	--
Levee District No. 2, Scott County, MO	13.8	13.8	--	13.8	--	4.8	--	4.8	--	13.8	--	13.8	--
Levee District No. 3, Mississippi County, MO	26.0	26.0	--	26.0	--	12.9	--	4.9	--	26.0	--	26.0	--
St. Johns Levee and Drainage District, MO	59.0 ³	58.7	--	58.2	--	9.2	--	--	--	46.9	--	46.1	--
St. Francis Levee District of MO	55.7	55.7	--	48.7 ⁴	--	23.0	--	12.0	--	55.1	--	55.1	--
City of Hickman, KY	1.4	1.4	--	1.4	--	--	--	--	--	0.5	--	--	--
Board of Levee Commissioners Fulton, County, KY	16.7	16.7	--	16.7	--	15.1	--	11.4	--	16.3	--	16.3	--
Reelfoot Levee District of Lake and Obion Counties, TN	4.5	4.5	--	4.5	--	0.6	--	0.3	--	4.5	--	4.3	--
Madrid Bend Levee District, Lake Co., TN	5.2	5.2	--	5.2	--	--	--	--	--	5.2	--	5.2	--
Lake County Levee and Drainage District, TN	17.0	17.0	--	17.0	--	9.6	--	9.4	--	17.0	--	17.0	--
Dyer County Levee and Drainage District No. 1, TN	21.3	21.3	--	21.3	--	1.3	--	0.4	--	21.3	--	21.3	--
Tipton-Obion levee extension	6.5	--	--	--	--	--	--	--	--	6.5	--	--	--
St. Francis Levee District of AR	156.7	156.7	--	153.2	--	89.2	--	88.4	--	156.7	--	156.7	--
Helena Improvement District No. 1, AR	5.3	5.3	--	5.3	--	2.4	--	2.4	--	4.7	--	4.2	--
Cotton Belt Levee District No. 1, AR	23.9	23.9	--	23.9	--	19.4	--	19.4	--	23.9	--	23.9	--

**TABLE 41-M
(Continued)**

**PROJECT LEVEES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ⁵ (Miles)			Surfaced Roads on Levees (Miles)				
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
Laconia Drainage and Levee District Phillips County, AR.....	20.5	20.5	--	20.5	--	11.5	--	11.5	--	20.5	--	20.5	--
Laconia Levee District No. 1 of Deshna County, AR.....	18.1	18.1	--	18.1	--	12.6	--	9.2	--	16.5	--	16.5	--
Laconia Circle Special Drainage District of Deshna County, AR.....	6.6	6.6	--	6.6	--	--	--	--	--	--	--	--	--
Yazoo-Mississippi Delta Levee District, MS.....	93.6	93.6	--	93.6	--	88.6	--	88.6	--	93.6	--	93.6	--
Madrid Bend L.D., Fulton Co., KY.	4.8	4.8	--	4.8	--	--	--	--	--	4.8	--	4.8	--
Birds Point-New Madrid setback levee, MO.....	<u>35.3</u>	<u>35.3</u>	--	<u>35.3</u>	--	<u>23.8</u>	--	--	--	<u>35.3</u>	--	<u>35.3</u>	--
Total Mississippi River.....	637.8	631.0	--	607.5	--	342.7	--	272.6	--	605.6	--	596.6	--
TOTAL MAIN STEM LEVEES.....	637.8	631.0	--	607.5	--	342.7	--	272.6	--	605.6	--	596.6	--
TRIBUTARY LEVEES IN MR&T PROJECT													
St. Francis River.....	(308.2)	(302.9)	--	(302.9)	--	--	--	--	--	(301.0)	--	(133.5)	--
East bank.....	159.5	156.2	--	156.2	--	--	--	--	--	156.7	--	94.7	--
West bank.....	148.7	146.7	--	146.7	--	--	--	--	--	144.3	--	38.8	--
Little River.....	(130.1)	(130.1)	--	(130.1)	--	--	--	--	--	(128.9)	--	(94.5)	--
East bank (left).....	40.7	40.7	--	40.7	--	--	--	--	--	40.7	--	40.1	--
West bank.....	35.1	35.1	--	35.1	--	--	--	--	--	35.1	--	23.7	--
Elk Chute.....	39.9	39.9	--	39.9	--	--	--	--	--	39.7	--	17.3	--
West Basin and middle valley.....	14.4	14.4	--	14.4	--	--	--	--	--	13.4	--	13.4	--
Lower White River.....	(95.6)	(85.9)	--	(84.1)	--	--	--	--	--	(94.0)	(--)	(81.0)	--
White River backwater levee.....	40.2	40.2	--	40.2	--	--	--	--	--	38.8	--	38.8	--
Augusta to Clarendon.....	49.2	39.5	--	39.5	--	--	--	--	--	49.2	--	36.2	--
Clarendon levee.....	6.2	6.2	--	4.4	--	--	--	--	--	6.0	--	6.0	--

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MISSISSIPPI RIVER COMMISSION

**TABLE 41-M
(Continued)**

**PROJECT LEVEES: MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ⁵ (Miles)				Surfaced Roads on Levees (Miles)			
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
Memphis Harbor	10.5	10.5	--	10.5	--	7.0	--	7.0	--	10.5	--	10.5	--
Total Tributary Levees in MR&T Project.....	544.4	529.4	--	527.6	--	7.0	--	7.0	--	534.4	--	319.5	--
GRAND TOTAL.....	1,182.2	1,160.4	--	1,135.0	--	349.7	--	279.6	--	1,140.0	--	916.1	--

1. Subject to change as planning progresses.
2. Includes 5.1 miles of Cache River levee. This levee was enlarged to 1928 grades with Federal funds, but since that time has been classified as a secondary levee.
3. Includes 12.1 miles of Farrenburg levee. This levee was enlarged to 1928 grades with Federal funds, but since that time has been classified as a secondary levee.
4. Deficient in freeboard as a result of 1996 Revised Project Design Flood flowline.
5. Landside seepage berms only.
6. Changed to correct previous error.

TABLE 41-N

**RECAPITULATION
PROJECT LEVEE TABLES 41-K, -L, AND -M
(FISCAL YEAR 2008)**

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ⁵ (Miles)			Surfaced Roads on Levees (Miles)				
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Currently Under Construction	In System When Completed	Built This FY	Complete Thru This FY	Currently Under Construction	In System When Completed	Built This FY	Total Complete Thru This FY	Currently Under Construction
MAIN STEM LEVEES													
Mississippi River													
New Orleans District,													
Table 41-K	511.6	511.6	--	501.4	--	1.2	--	1.1	--	479.6	--	479.6	--
Vicksburg District, Table 41-L.....	460.4	460.4	3.7	302.8	30.5	309.2	--	264.2	--	450.1	--	450.1	30.5
Memphis District, Table 41-M.....	637.8	631.0	--	607.5	--	342.7	1.4	274.0	--	605.6	--	596.6	--
Total Mississippi River.....	1,609.8	1,603.0	3.7	1,411.7	30.5	653.1	1.4	539.3	--	1,535.3	--	1,526.3	30.5
Other Levees Included in Main Stem													
Atchafalaya Basin Floodway--													
NOD	449.2	449.2	3.1	416.0	6.9	--	--	--	--	447.5	--	428.2	--
Louisiana State Pen Levee--													
NOD	12.1	12.1	--	12.1	--	--	--	--	--	--	--	--	--
Lower Red River-South Bank--													
VXD	59.2	59.2	--	59.2	--	--	--	--	--	59.2	--	59.2	--
Arkansas River-South Bank--													
VXD	85.4	85.4	--	85.4	--	24.7	--	24.7	--	84.1	--	81.1	--
Total Other Levees Included in Main Stem													
	605.9	605.9	--	572.7	6.9	24.7	--	24.7	--	590.8	--	568.5	--
Total Main Stem Levees.....	2,215.7	2,208.9	6.8	1,984.4	37.4	677.8	1.4	564.0	--	2,126.1	--	2,094.8	30.5
TRIBUTARY LEVEES IN													
MR&T PROJECT													
Lake Pontchartrain, LA,--NOD	17.4	17.4	--	17.4	--	--	--	--	--	17.4	--	17.4	--
Yazoo River Basin—VXD	624.1	427.4	--	237.6	--	--	--	--	--	624.1	--	338.9	--
Arkansas River-North Bank--													
VXD	61.5	56.2	--	246.9 [†]	--	8.3	--	8.3	--	47.4	--	47.4	--
Red River Backwater—VXD.....	263.6	246.9	--	302.9	--	--	--	--	--	246.9 [†]	--	246.9 [†]	--
St. Francis River—MD	308.2	302.9	--	--	--	--	--	--	--	301.0	--	133.5	--

**TABLE 41-N
(Continued)**

**RECAPITULATION
PROJECT LEVEE TABLES 41-K, -L, AND -M
(FISCAL YEAR 2008)**

Location	Levees and Floodwalls (Miles)												
	Built to Approved Grade and Section					Berm ⁵ (Miles)				Surfaced Roads on Levees (Miles)			
	Authorized for System	Total in Place This FY	This FY	Total Thru This FY	Cur- rently Under Con- struction	In System When Com- Pleted	Built This FY	Com- plete Thru This FY	Cur- rently Under Con- struction	In System When Com- pleted	Built This FY	Total Com- plete Thru This FY	Cur- rently Under Con- struction
Little River--MD	130.1	130.1	--	130.1	--	--	--	--	--	128.9	--	94.5	--
Lower White River—MD	95.6	85.9	--	84.1	--	--	--	--	--	94.0	--	81.0	--
Memphis Harbor--MD	10.5	10.5	--	10.5	--	7.0	--	7.0	--	10.5	--	10.5	--
Total Tributary Levees in MR&T Project	<u>1,511.0</u>	<u>1,277.3</u>	--	<u>1,085.7</u>	--	<u>15.3</u>	--	<u>15.3</u>	--	<u>1,470.2</u>	--	<u>970.1</u>	--
Grand Total in Project	3,726.7	3,486.2	6.8	3,070.1	37.4	691.2	1.4	579.3	--	3,596.3	0	3,064.9	30.5

1. Landside seepage berms only.
2. Subject to change as planning progresses.
3. 1996 Revised Project Design Flood flowline identified freeboard deficiencies.
4. Changed to correct previous error.
5. Relief wells have been used in lieu of seepage berms in some reaches of the Miss. River Levees.

MISSISSIPPI RIVER COMMISSION

TABLE 41-O

**CHANNEL IMPROVEMENTS:
NEW ORLEANS DISTRICT
(FISCAL YEAR 2008)**

Location	Year Initiated	In System When Completed	Built This FY (Miles)	Total Complete Thru This FY	Percent Complete	Currently Under Construction
Bayou des Glaises diversion channel	1938	6.0	--	6.0	100	--
Bayous Rapides, Boeuf, and Cocodrie	1946	92.6	--	63.4	75	--
Charenton drainage and navigation canal	1939	6.3	--	6.3	100	--
Wax Lake Outlet	1938	15.7	--	15.7	100	--
Atchafalaya Basin Floodway	1933	244.2	--	186.4	76	--
Morganza Floodway	1941	3.3	--	3.3	100	--
Old River outflow channel	1956	8.3	--	8.3	100	--
Old River inflow channel	1960	2.3	--	2.3	100	--
Old River lock approach channels	1961	2.2	--	2.2	100	--
Baton Rouge Harbor (Devils Swamp)	1958	2.5	--	2.5	100	--
Teche-Vermilion Water Supply	1977	6.3	--	6.3	100	--
Old River Auxiliary Control Structure inflow channel	1986	1.9	--	1.9	100	--
Old River Auxiliary Control Structure outflow channel	1988	0.9	--	0.9	100	--
Caernarvon Freshwater Diversion channel	1988	1.7	--	1.7	100	--

TABLE 41-P **CHANNEL IMPROVEMENTS:**
VICKSBURG DISTRICT
(FISCAL YEAR 2008)

Location	Year Initiated	In System When Completed (Miles)	Built This FY	Total Complete Thru This FY	Percent Complete	Currently Under Construction
BIG SUNFLOWER RIVER, ETC., MS						
Big Sunflower River.....	1947	199.1	--	199.1	100	--
Quiver River.....	1947	69.6	--	69.6	100	--
Deer Creek.....	1947	7.0	--	7.0	100	--
Steele Bayou.....	1947	54.9	--	54.9	100	--
Steele Bayou ¹	1965	71.2	--	71.2	100	--
Main Canal.....	1959	21.1	--	21.1	100	--
Main Canal ²	1993	26.7	--	26.7	100	--
Black Bayou.....	1992	36.5	--	36.5	100	--
Big Sunflower River tributaries.....	1957	227.2	--	227.2	100	--
Quiver River tributaries.....	1960	35.4	--	35.4	100	--
YAZOO BACKWATER						
Yazoo Backwater.....	1960	39.9	--	39.9	100	--
YAZOO BASIN HEADWATER, MS						
Upper Yazoo Projects.....	1976	197.4	10.0	134.0	68	10
Coldwater River.....	1941	54.6	--	54.6	100	--
Arkabutla Canal.....	1948	0.4	--	0.4	100	--
Tallahatchie Canal.....	1940	74.8	--	73.5	98	--
Little Tallahatchie River and Panola-Quitman Floodway.....	1939	48.0	--	48.0	100	--
Greenwood protection works.....	1971	2.9	--	2.9	100	--
Yacona River.....	1952	1.8	--	1.8	100	--
Bobo Bayou.....	1944	16.1	--	16.1	100	--
Cassidy Bayou.....	1934	69.0	--	69.0	100	--
Cassidy Bayou ³	--	26.0	--	--	--	--
Bear Creek Diversion.....	--	4.8	--	--	--	--
Lake Cormorant.....	--	20.9	--	--	--	--
Hurricane Bayou.....	--	2.5	--	--	--	--
Opossum Bayou.....	--	20.8	--	--	--	--
Abaica Creek.....	--	7.7	--	--	--	--
Chicopa Creek.....	--	7.0	--	--	--	--
Bear Creek.....	--	23.3	--	--	--	--
Rocky Bayou.....	--	7.8	--	--	--	--
Whiteoak Bayou.....	--	55.9	--	--	--	--
Miscellaneous ditches.....	--	12.3	--	--	--	--
Yalobusha River.....	1939	46.0	--	46.0	100	--
Yazoo River.....	1940	160.2	--	160.2	100	--
Whittington Auxiliary Channel.....	1956	30.8	--	30.8	100	--
Tchula Lake.....	1964	26.4	--	26.4	100	--
David-Burrell Bayou.....	1957	40.4	--	40.4	100	--
McKinney Bayou.....	1960	3.5	--	3.5	100	--

MISSISSIPPI RIVER COMMISSION

**TABLE 41-P
(Continued)**

**CHANNEL IMPROVEMENTS:
VICKSBURG DISTRICT
(FISCAL YEAR 2008)**

Location	Year Initiated	In System When Completed (Miles)	Built This FY	Total Complete Thru This FY	Percent Complete	Currently Under Construction
YAZOO BASIN HEADWATER, MS (Continued)						
Hillside Floodway.....	1964	11.0	--	11.0	100	--
Yazoo City protection works.....	1953	1.6	--	1.6	100	--
Ascalmore-Tippo Bayous	1975	30.2	--	15.1	50	--
Alligator-Catfish Bayou.....	1973	8.3	--	8.3	100	--
Pelucia Creek.....	1975	11.7	--	11.7	100	--
BOEUF & TENSAS RIVERS, ETC., LA AND AR						
Bayou Lafourche	1949	45.3	--	45.3	100	--
Bayou Lafourche ^{4,7}	1972	43.0	--	4.4	10	--
Big & Colewa Creeks	1947	81.4	--	81.4	100	--
Big & Colewa Creeks ^{5,7}	1965	86.8	--	51.5	60	--
Tensas River	1947	96.5	--	96.5	100	--
Tensas River ⁶	1968	165.0	--	61.0	37	--
Boeuf River, AR and LA.....	1953	103.9	--	103.9	100	--
Fleschmans Bayou, AR.....	1963	6.6	--	6.6	100	--
Caney Bayou, AR.....	1964	7.4	--	7.4	100	--
Canal 18, AR.....	1963	10.3	--	10.3	100	--
Big Bayou, AR.....	1952	33.3	--	33.3	100	--
Black Pond Slough, AR	1962	14.3	--	14.3	100	--
Bayou Macon, AR and LA	1959	150.8	--	150.8	100	--
Rush Bayou, AR	1964	6.7	--	6.7	100	--
Canal 19, AR.....	1957	50.2	--	50.2	100	--
Canal 43, AR.....	1956	34.5	--	34.5	100	--
Canal 81, AR.....	1957	32.7	--	32.7	100	--
Mill Bayou-Bayou Vidal-Bayou Vidal Cutoff	--	17.1	--	--	--	--
Kirsch Lake Canal	--	9.3	--	--	--	--
Canal 19 Extension	1964	9.4	--	9.4	100	--
Lake Chicot Pumping Plant	--	2.5	--	2.5	100	--
Mill Bayou	1955	4.8	--	4.8	100	--
RED RIVER BACKWATER, LA						
Tensas-Cocodrie Pumping Plant	1976	6.9	--	6.9	100	--
Six Mile Bayou, LA.....	--	1.5	--	1.5	100	--

1. Includes further work on 54.9 miles and adds 16.3 miles of channel to the project.
2. Includes further work on 21.1 miles and adds 1.1 miles of channel to the project.
3. Includes further work on 26.0 miles.
4. Includes further work on 38.6 miles and adds 4.4 miles of channel to the project.
5. Includes further work on 75.3 miles and adds 11.5 miles of channel to the project.
6. Includes further work on 96.5 miles and adds 68.5 additional miles of channel to the project.
7. Further work on these items has been deferred due to local oppositions and withdrawal of sponsorship by the levee district.

**TABLE 41-Q CHANNEL IMPROVEMENTS:
MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Location	Year Initiated	In System When <u>Completed</u> (Miles)	Built This <u>FY</u>	Total Complete Thru This FY	Percent Complete	Currently Under Construction
BIRDS POINT-NEW MADRID FLOODWAY						
Birds Point-New Madrid Intercepting Ditch Enlargement, Samos and Vicinity, MO	1952	9.6	--	9.6	100	--
ST. FRANCIS BASIN						
Little River Drainage, MO	1963	298.9	--	298.9	100	--
St. Francis River, MO and AR	1953	658.0	--	597.9	91	--
West Memphis Drainage, AR.....	1951	19.8	--	19.8	100	--
Big Slough and Mayo Ditch, AR	1960	28.0	--	28.0	100	--
Tyronza River, AR	1939	12.7	--	12.7	100	--
Ten and Fifteen Mile Bayou, AR	2003	19.7 ³	4.9	5.6	28	4.0
L'Anguille River, AR.....	(1)	95.0	--	--	--	--
LOWER WHITE RIVER BASIN, AR						
Cache River Basin, AR	1972	231.5	--	7.2	3	--
Big Creek and tributaries, AR.....	(1)	103.8	--	--	--	--
WEST KENTUCKY TRIBUTARIES						
Obion Creek, KY	(1)	41.7	--	--	--	--
WEST TENNESSEE TRIBUTARIES						
MS River, Western TN tributaries (Backwater Areas) (1946 Act)	1952	34.3	--	34.3	100	--
Obion River Diversion Channel, TN (1946 Act).....	(1)	9.3	--	--	--	--
Reelfoot Lake-Lake No. 9, KY and TN	1974	15.8	--	3.0	19	--
Running Reelfoot Bayou, TN	1955	19.7	--	19.7	100	--
MS River Below Cape Girardeau: West TN tributaries (1948 Act).....	1961	225.0	--	93.0	41	--
Wolf River and tributaries, TN.....	1960	24.7	--	24.7	100	--
NONCONNAH CREEK, MS AND TN						
Nonconnah Creek, MS and TN.....	1990	18.2	--	1.26	7	--
HELENA HARBOR, PHILLIPS COUNTY, AR						
Helena Harbor, AR ⁽²⁾	1989	2.25	--	2.25	100	--

1. Not started.
2. Data for Stage 1 only.
3. Approved work only.

MISSISSIPPI RIVER COMMISSION

TABLE 41-R

**PUMPING STATIONS:
NEW ORLEANS DISTRICT
(FISCAL YEAR 2008)**

Name	Authorized Size (CFS)	Percent Complete Thru This FY	Year Complete (Schedule/ Actual)	Rehabilitation Status (If Applicable)		
				Year Initiated	Percent Complete Thru This FY	Year Complete (Schedule/ Actual)
Bayou Yokely	489	100	1955	1990	100	1991(A)
Bayou Yokely Enlargement	568	100	1963	1990	100	1991(A)
Centerville	332	100	1964	1991	100	1992(A)
Ellerslie	136	100	1953	--	--	--
Franklin	144	100	1958	1992	100	1993(A)
Franklin Enlargement	144	100	1978	1992	100	1993(A)
Gordy	238	100	1964	--	--	--
Maryland	136	100	1957	1991	100	1992(A)
North Bend	52	100	1962	--	--	--
Tiger Island	75	100	1955	--	--	--
Wax Lake East	1,008	100	1961	1990	100	1992(A)
Wax Lake West	496	100	1965	1990	100	1992(A)
Teche Vermilion	1,300	100	1982	--	--	--
Pointe Coupee	1,500	100	1983	--	--	--
David Pond	<u>570</u>	100	2000	--	--	--
TOTAL	6,618					

TABLE 41-S **PUMPING STATIONS:**
VICKSBURG DISTRICT
(FISCAL YEAR 2008)

Name	Authorized Size (CFS)	Percent Complete Thru This FY	Year Complete (Schedule/ Actual)	Rehabilitation Status (If Applicable)		
				Year Initiated	Percent Complete Thru This FY	Year Complete (Schedule/ Actual)
Chauvin Bayou, LA	250	100	1994	1991	100	
Bawcomville	270	100	1955	1992	100	1993
Jonesville	180	100	1952	--	--	--
Natchez Port	100	--	--	--	--	--
Wilson Point	50	--	--	--	--	--
Greenwood - Lee Street	90	100	1953	1952	--	--
Greenwood - Wilson Street	67	100	1953	1952	--	--
Greenwood - Walker Lake	675	100	1949	1952	--	--
Yazoo City	540	100	1954	1957	--	--
Columbia	45	100	1939	--	--	--
Calion	200	100	1959	--	--	--
McKinney Bayou, MS	250	100	1962	1961	--	--
Lake Chicot	6,500	100	1987	--	--	--
Tensas Cocodrie	4,000	100	1986	--	--	--
Yazoo Backwater	10,000	--	--	--	--	--
Natchez Area	300	--	--	--	--	--
Bushley Bayou	300	--	Indef ¹	--	--	--
Bushley Bayou	20	--	Indef ¹	--	--	--
Sicily-HAHA Bayou	750	100	2000	--	--	--
Sicily - Fool River	300	100	2000	--	--	--
Pelucia Creek - Rising Sun #1	10	100	1992	--	--	--
Pelucia Creek - Rising Sun #2	15	100	1992	--	--	--
Pelucia Creek Pump	75	100	1993	--	--	--
Below Red River	500	--	Indef ¹	--	--	--
Bayou Rapides	222	100	1936	--	--	--
Ouachita Parish, River Styx Bayou, LA	<u>500</u>	100	2000	--	--	--
Total	25,709					

¹ This project has been placed in the inactive category.

MISSISSIPPI RIVER COMMISSION

TABLE 41-T

**PUMPING STATIONS:
MEMPHIS DISTRICT
(FISCAL YEAR 2008)**

Name	Authorized Size (CFS)	Percent Complete Thru This FY	Year Complete (Schedule/ Actual)	Rehabilitation Status (If Applicable)		
				Year Initiated	Percent Complete Thru This FY	Year Complete (Schedule/ Actual)
Devall's Bluff	215	100	1949	1987	100	1989
Des Arc, Ark.	30	100	1954	--	--	--
Ensley	900	100	1966	--	--	--
DD #17, Station #1	375	100	¹	--	--	--
Huxtable Pumping Plant	12,000	100	1977	--	--	--
Graham Burke	1,500	100	1964	--	--	--
Finley Street	100	100	1978	--	--	--
Dyersburg	26	100	1961	--	--	--
Cotton Slough	50	100	1964	--	--	--
West Hickman	190	100	1976	--	--	--
Cypress Creek	3,000	100	1944	--	--	--
Fairfax	53.5	100	1950	--	--	--
Goose Pond	110	100	1976	--	--	--
Marble Bayou	220	100	1952	--	--	--
Workhouse Bayou	520	100	1950	--	--	--
Nonconnah	1,620	100	1944	--	--	--
L&DD #3 Peafield	400	100	¹	--	--	--
Treasure Island	150	100	1976	--	--	--
Lake No. 9	500	100	1981	--	--	--
Cairo 10th Street	65	100	1981	--	--	--
Cairo 28th Street	65	100	1981	--	--	--
DD #17, Station #2	700	100	1981	--	--	--
Drinkwater Sewer	150	100	1979	--	--	--
May Street	5	100	1948	--	--	--
Cairo 22nd Street	37	100	¹	--	--	--
Gayoso Bayou	1,500	100	1915	--	--	--
Mud Lake	200	--	--	--	--	--
Madison	25	--	--	--	--	--
Cache River	200	--	--	--	--	--
New Madrid ²	1,500	0	2009	--	--	--
St. John's Bayou	1,000	--	--	--	--	--
Drinkwater #2	<u>150</u>	100	2001	--	--	--
TOTAL	27,556.5					

1. Unknown constructed by local interest.

2. New Madrid Closure Levee and Pump Station Contract Award September 2004.

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2008

TABLE 41-U COSTS DURING FISCAL YEAR 2008

Item	Construction	Maintenance	Other
FEDERAL FUNDS			
Flood Control, Mississippi River and Tributaries:			
St. Louis District:			
St. Francis Basin-Wappapello Lake	--	12,531,001.89	188,211.48
Subtotal	--	12,531,001.89	188,211.48
Memphis District:			
Bayou Meto Basin, AR	--	--	1,974,378.28
Channel improvement	12,654,467.74	26,308,836.98	--
Eastern Arkansas Region (Comp)	2,606,722.56	--	--
Francis Bland Floodway Ditch (Eight Mile)	11,424.61	--	--
Helena Harbor, Phillips County	--	393,958.24	--
Inspection of Completed Works	--	819,475.09	--
Mapping	--	481,529.69	--
Memphis Harbor (McKeller Lake)	--	2,108,139.45	--
Memphis Metro Area, Storm Water Mgmt	--	--	81,305.40
Millinton and Vicinity, TN	--	--	4,054.57
Mississippi River Levees	7,675,824.07	5,471,278.92	--
St. Francis River & Tributaries, AR	5,387,061.70	10,824,076.48	--
St. Johns Bayou & New Madrid	316,622.88	--	--
Survey Gages & Observ	--	--	114,171.85
West Tennessee Tributaries	203,425.81	--	--
White River Backwater	--	1,718,350.31	--
Wolf River	716,599.26	--	--
Subtotal	29,572,148.63	48,125,645.16	2,173,910.10
Vicksburg District:			
Channel Improvement	19,359,184.05	17,484,251.77	--
Coldwater Below Arkabutla Lake, MS	--	--	277,772.78
Inspection of Completed Works	--	353,250.57	--
Lower Arkansas – South Bank	--	199,139.11	--
Lower Arkansas River – North Bank, AR	--	333,566.76	--
Lower Red River--South Bank Red River Levee	--	69,792.61	--
Mapping	--	415,028.92	--
Mississippi River levees	16,809,585.05	4,339,327.57	--
Tensas Basin	50,045.99	7,009,515.47	--
Yazoo Basin Tributaries	31,405,505.20	22,100,580.96	--
Greenwood Less Greenwood Protection	--	2,170,554.46	--
Greenville Harbor	--	295,024.35	--
Grenada Lake	--	6,932,835.04	--
Sardis Lake	--	9,313,025.54	--
SE Ark Feasibility	--	--	398,832.82
Spring Bayou, LA	--	--	42,681.95
Survey Gages & Observ	--	--	474,000.00
Vicksburg Harbor	--	3,985.71	--
Subtotal	67,624,320.29	71,019,878.84	1,193,287.55

MISSISSIPPI RIVER COMMISSION

**TABLE 41-U COSTS DURING FISCAL YEAR 2008
(Continued)**

Item	Construction	Maintenance	Other
New Orleans District:			
Alexandria, LA to the Gulf (Rapides)	--	--	233,470.60
Atchafalaya Basin	16,319,173.21	14,334,816.41	--
Atchafalaya Basin Floodway System	4,776,015.91	2,524,649.84	--
B. R. Harbor Devil Swamp	--	146,875.78	--
Bayou Cocodrie and Tributaries	--	39,947.19	--
Bonnet Carre Spillway	--	5,061,962.29	--
Channel Improvement	15,886,569.72	12,625,508.67	--
Donaldsonville, LA	--	--	104,733.46
Inspection of Completed Works	--	905,874.40	--
Louisiana Penitentiary Levees	22,816.30	--	--
Mapping	--	542,278.98	--
Mississippi Delta Region	4,334,015.51	13,091.52	--
Mississippi River Levees	4,573,492.77	2,139,649.18	--
Morganza, LA to Gulf of Mexico	--	--	2,563,362.76
Surv Gages & Observ 208	--	--	136,599.09
Old River	--	9,768,923.46	--
Subtotal	<u>45,912,083.42</u>	<u>48,103,277.72</u>	<u>3,038,165.91</u>
Total Federal Funds	143,108,552.34	179,780,103.61	6,405,363.56
CONTRIBUTED FUNDS			
Memphis District			
Eastern Ark Region Comp Study	--	10,889.33	--
Millington & Vicinity, TN	--	--	43,927.49
Northwest TN Regional Harbor	152,565.92	--	--
PAS-TN West Tennessee River Basin, TN	--	--	25,865.05
PAS-AR-Forrest City, AR	--	--	21,458.86
Pemiscot County Harbor, Caruthersville	25,933.50	--	--
Francis Bland Floodway Ditch	--	28,812.43	--
White River Basin	--	--	118,235.05
Wolf River	--	648,328.29	--
Subtotal	<u>178,499.42</u>	<u>688,030.05</u>	<u>209,486.45</u>
Vicksburg District			
Atchafalaya Basin River Bayous Chene, Boeuf & Black	--	--	2,221.31
Coldwater River Below Arkabutla – Comp Feas.	--	--	38,118.53
DeGray Lake, AR	--	7,482.90	--
PAS Ross Barnett Reservoir Emergency AC	--	--	2,353.20
Southeast Arkansas Feasibility – Comp Feas.	--	--	371,089.60
Yazoo	<u>1,090,108.46</u>	--	--
Subtotal	<u>1,090,108.46</u>	<u>7,482.90</u>	<u>413,782.64</u>
New Orleans District:			
Alexandria, LA to the Gulf	--	--	53,734.64
Atchafalaya Basin Floodway System	--	850,882.20	--
Calcasieu River Basin	--	--	49,125.68
Coastal Wetland	--	3,125,613.38	--
Donaldsonville, LA, to Gulf	--	--	284,886.01
Planning Assistance to Others-LA-Various	--	--	290,826.49
LCA Ecosystem Restoration	--	--	3,374,900.85
Orleans Parish, LA	--	--	7.72
Port of Iberia, LA	--	--	99.45
Morganza, LA to Gulf of Mexico	--	--	421,787.07

TABLE 41-U COSTS DURING FISCAL YEAR 2008
(Continued)

Item	Construction	Maintenance	Other
Plaquemines Parish Urban Flood Control	--	--	49,567.00
West Shore, LK Pontchartrain	--	--	284,904.93
Subtotal	--	3,976,495.58	4,809,839.84
Total Contributed Funds	1,268,607.88	4,672,008.53	5,433,108.93
Grand Total, Federal and Contributed Funds	144,377,160.22	184,452,112.14	11,838,472.49

MISSISSIPPI RIVER COMMISSION

TABLE 41-V STATEMENT OF ALLOTMENTS AND ACCRUED EXPENDITURES FOR FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES, FROM MAY 15, 1928, THROUGH SEP. 30, 2008

District or Installation and Class of Work	Allotments	Accrued Expenditures	Unexpended Balance Sep. 30, 2008
ALLOTMENTS AND ACCRUED EXPENDITURES CHARGEABLE AGAINST FLOOD CONTROL ACT LIMITATIONS:			
COMPLETED WORKS:			
Waterways Experiment Station Office, Chief of Engineers	874,000	874,000	--
Rock Island District:			
S. G. & O. prior to Aug. 18, 1941	19,158	19,158	--
St. Louis District:			
S. G. & O. prior to Aug. 18, 1941	14,010	14,010	--
S. G. & O. prior to Aug. 18, 1941	169,352	169,352	--
Subtotal	1,076,520	1,076,520	--
Memphis District:			
Des Arc, AR	178,925	178,925	--
Contraction works	8,692,791	8,692,791	--
DeValls Bluff, AR	231,215	231,215	--
Mapping	1,450,337	1,450,337	--
Memphis Harbor	18,736,432	18,736,432	--
New Madrid Floodway	6,521,543	6,521,543	--
Wolf River and tributaries	1,723,620	1,723,620	--
Roads on levees (Mississippi River levees)	12,426	12,426	--
S. G. & O. prior to Aug. 18, 1941	1,998,766	1,998,766	--
Subtotal	39,546,055	39,546,055	--
Vicksburg District:			
Boeuf Basin levees	2,764,605	2,764,605	--
Channel realignment, Arkansas River	125,074	125,074	--
Contraction works	1,972,183	1,972,183	--
Eudora Floodway	826,235	826,235	--
Vicksburg Harbor	4,664,515	4,664,515	--
Greenville Harbor	2,864,516	2,864,516	--
Grants Canal (Mississippi River levees)	7,070	7,070	--
Mapping	1,531,021	1,531,021	--
Jonesville, LA	172,950	172,950	--
Tensas National Wildlife Refuge, LA	3,980,000	3,980,000	--
Roads on levees	105,660	105,660	--
S. G. & O. prior to Aug. 18, 1941	2,350,201	2,350,201	--
Subtotal	21,364,030	21,364,030	--

**TABLE 41-V
(Continued)**

**STATEMENT OF ALLOTMENTS AND
ACCRUED EXPENDITURES FOR FLOOD
CONTROL, MISSISSIPPI RIVER AND
TRIBUTARIES, FROM MAY 15, 1928,
THROUGH SEP. 30, 2008**

District or Installation and Class of Work	Allotments	Accrued Expenditures	Unexpended Balance Sep. 30, 2008
New Orleans District:			
Baton Rouge Harbor, LA	699,185	699,185	--
Atchafalaya River and Basin, LA	3,375,492	3,375,492	--
Bonnet Carre - Spillway, LA	14,212,198	14,212,198	--
Contraction works	1,258,916	1,258,916	--
Mapping	1,112,967	1,112,967	--
Roads on levees	540,838	540,838	--
S. G. & O. prior to Aug. 18, 1941	2,701,566	2,701,566	--
Wax Lake Outlet and Charenton Canal	10,098,817	10,098,817	--
Morganza Floodway and structure	35,992,117	35,992,117	--
Lake Pontchartrain	5,513,110	5,513,110	--
Teche Vermilion Basin Water Supply	34,506,000	34,506,000	--
Atchafalaya Basin, rights-of-way and flowage, Bayou des Glaises setback	387,917	387,917	--
Subtotal	110,399,123	110,399,123	--
All other completed items:			
Surveys under Sec. 10, Flood Control Act of 1928	4,995,215	4,995,215	--
Impounded savings	1,593,097	1,593,097	--
Plant transferred to revolving fund	24,924,578	24,924,578	--
OCE (portion of allotment transferred to Revolving fund, Washington Dist.)	19,882	19,882	--
Subtotal	31,532,772	31,532,772	--
TOTAL COMPLETED WORKS	203,918,500	203,918,500	--
UNCOMPLETED WORKS:			
Rock Island District:			
Levees under Sec. 6, Flood Control Act of 1928	579,462	579,462	--
St. Louis District:			
Levees under Sec. 6, Flood Control Act of 1928	1,897,980	1,897,980	--
Wappapello Lake (CG)	11,393,000	12,531,002	864,904
St. Louis Riverfront MO & IL	0	30,855	1,320
Upper Kaskasia Study	0	68,391	32,843
Cape LA Croix Creek Sinkhole Study	25,000	24,955	45
Clarence Cannon Dam	106,000	46,000	206,000
Subtotal	14,001,442	15,178,645	1,105,112

MISSISSIPPI RIVER COMMISSION

**TABLE 41-V
(Continued)**

**STATEMENT OF ALLOTMENTS AND
ACCRUED EXPENDITURES FOR FLOOD
CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES,
FROM MAY 15, 1928, THROUGH SEP. 30, 2008**

District or Installation and Class of Work	Allotments	Accrued Expenditures	Unexpended Balance Sep. 30, 2008
Memphis District:			
Mississippi River Levees	356,060,601	341,722,994	17,721,850
New Madrid	98,000	98,000	--
Channel improvement:			
Revetments	528,043,206	526,083,715	2,807,818
Dredging	67,427,439	67,292,427	146,732
Dikes	313,093,042	309,222,571	4,661,836
Memphis District: (Continued)			
Bayou Meto Basin, AR	2,657,000	1,974,378	857,608
Inspection of Completed Works	906,000	819,475	163,625
Mapping	911,000	896,559	12,270
Reelfoot Lake	439,434	439,434	--
Reelfoot Lake, Lake No. 9, TN-KY	7,896,000	7,896,000	2,000
St. Francis Basin:			
Wappapello Lake	9,019,908	9,019,908	--
St. Francis River and tributaries	362,685,412	357,275,672	9,139,629
Big Slough and Mayo Ditch	965,429	965,429	--
Little River Drainage	52,486,092	52,486,092	--
Lower White River:			
Clarendon Levee	652,115	652,115	--
Augusta to Clarendon, AR	1,788,846	1,788,846	--
White River backwater levee, AR	12,683,501	12,342,851	511,712
Horn Lake Creek & Tribs	2,290,100	2,290,100	--
Horn Lake Creek Modification, MS	826,200	878,902	-52,702
Hickman Bluff, KY	17,339,600	17,339,600	--
Memphis Harbor Ensley Berm	6,330,000	5,618,139	711,903
Memphis Metro Area, Storm Water Mgmt St	30,000	81,305	118,603
Nonconnah Creek, Flood Control Ext.	300,000	247,298	52,702
Nonconnah Creek Recreation Facility	16,910	16,910	--
Nonconnah Creek, TN & MS	17,541,399	17,417,339	125,458
Nonconnah Creek, Recreation Extension	23,000	36,000	--
West Memphis and Vicinity	571,000	571,000	--
White River Basin	100,000	118,235	102,283
Pemiscot County Harbor, Caruthersville	5,900	25,934	8
Planning Assistance to States	203,650	47,324	194,032
Millington and Vicinity, TN	0	47,983	25,977
Whiteman's Creek, Ar	1,895,500	1,895,010	279,307
Northwest TN Regional Harbor	3,612,000	152,566	3,887,487
Levees under Sec. 6, Flood Control Act of 1928	108,651	108,651	--
West Tennessee Tributaries	55,148,255	55,050,092	97,335
Helena Harbor, Phillips County, AR	14,867,700	14,967,658	71
Helena & Vicinity, AR	7,635,478	7,566,598	68,880
Cache Basin, AR	10,850,000	10,849,291	709
West Kentucky Tributaries	1,440,000	1,440,000	--
Mud Lake Pumping Station, TN	100,000	100,000	--
L'Anguille River	237,432	237,432	--
Eight Mile Creek	3,896,000	3,895,161	839
Surveys Gages & Observ	113,000	114,172	2,051
St. Johns Bayou & New Madrid Floodway	15,197,847	10,409,099	5,143,748

TABLE 41-V STATEMENT OF ALLOTMENTS AND ACCRUED EXPENDITURES FOR FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES, FROM MAY 15, 1928, THROUGH SEP. 30, 2008

District or Installation and Class of Work	Allotments	Accrued Expenditures	Unexpended Balance Sep. 30, 2008
Memphis District Continued:			
Eastern Arkansas Reg (Comp)	68,377,661	56,324,993	14,206,423
St. Francis Bland Floodway Ditch (Eight Mile Creek)	11,435,789	11,453,219	72,501
Wolf River, Memphis, TN	7,986,000	8,052,664	425,049
Subtotal	1,965,992,097	1,918,329,141	61,487,744
Vicksburg District:			
Mississippi River Levees	517,840,977	476,760,492	41,080,486
Section 6 Levees	9,000	9,000	--
Lower Arkansas River:			
North Bank	7,344,414	7,382,981	139,263
South Bank	15,789,286	15,875,425	3,341
DeGray Lake, AR	--	7,483	--
SE Ark Feasibility	822,000	769,923	324,681
Atchafalaya River Bayous Chene Bouef	--	2,221	98,948
Boeuf Tensas Less Tensas River	2,624,000	2,797,887	485,250
Tensas Basin:			
Lake Chicot Pumping Plant	95,639,986	95,639,986	--
AR & LA, Red River Backwater	6,936,000	4,211,628	5,445,728
Tensas River	41,505,235	41,505,235	60,517
Red River WW Miss RV to Shreveport	--	--	75,721
Red River Backwater:			
Below Red River	639,400	639,400	--
Red River Backwater Levee, LA	137,605,254	137,605,239	15
Tensas Cocodrie pumping plant	56,071,200	56,071,200	--
Lower Red River South Bank Red River Levees	835,300	826,093	9,222
Channel improvement:			
Revetments	635,476,534	631,290,990	4,950,433
Dredging	27,979,516	27,509,969	469,954
Dikes	229,748,345	225,955,123	3,793,221
Inspection of Completed Works	357,000	353,251	9,767
Mapping	418,000	415,029	2,971
Coldwater River Below Arkabutla Lake, MS	495,000	315,892	463,012
Greenville Harbor	295,000	295,024	--
Pearl River Watershed, MS	0	0	10,874
Planning Assistance to States	-18	2,353	5,925
Vicksburg Harbor	295,000	3,986	291,016
Levees under Sec. 6, Flood Control Act of 1928	958,175	958,175	--
Ouachita River Levees	400,000	400,000	--
Yazoo Basin:			
Sardis Lake	37,326,400	35,815,426	2,033,242
Enid Lake	31,324,400	31,246,552	1,264,493
Arkabutla Lake	21,904,700	22,550,578	71,339
Grenada Lake	53,273,494	52,334,329	1,210,550
Greenwood	13,076,000	13,713,554	26,783
Belzoni	316,656	316,656	--
Yazoo City	2,773,611	2,704,013	37,136
Will M. Whittington auxiliary channel	10,950,966	10,950,966	--
Big Sunflower, etc.	115,303,592	110,678,133	5,386,583

MISSISSIPPI RIVER COMMISSION

**TABLE 41-V
(Continued)**

**STATEMENT OF ALLOTMENTS AND
ACCRUED EXPENDITURES FOR FLOOD
CONTROL, MISSISSIPPI RIVER AND
TRIBUTARIES, FROM MAY 15, 1928,
THROUGH SEP. 30, 2008**

District or Installation and Class of Work	Allotments	Accrued Expenditures	Unexpended Balance Sep. 30, 2008
Vicksburg District Continued:			
Main Stem	37,733,248	37,411,661	940,190
Lower Auxiliary	188,000	183,020	4,994
Upper Yazoo Projects	259,987,646	251,335,051	8,652,596
Yazoo Basin--Tributaries			
Tributaries (Except Ascal-Tippo-Opossum Bayous)	108,503,582	108,495,957	18,084
Tributaries--Bank Stabilization	612,484	612,484	--
Ascalmore-Tippo-Opossum Bayous	23,977,200	23,977,200	--
Yazoo Basin Backwater			
Yazoo Backwater less Rocky Bayou	59,250,435	58,644,435	741,707
Rocky Bayou	3,401,500	3,401,500	--
Yazoo Backwater Pumping Plant	40,888,724	23,421,464	17,467,259
Muddy Bayou	5,145,200	5,145,200	--
Yazoo Backwater, F&WL Mitigation	6,415,500	6,415,500	--
Yazoo Basin Reformulation	39,239,643	38,780,438	459,205
Surv Gages & Observ	1,152,000	474,000	978,000
Spring Bayou, LA	360,500	42,682	359,754
Streambank Erosion Control, Eval. and Demo.	14,767,000	14,767,000	--
Yazoo Diversion Canal, MS	--	1,090,108	276,256
Yazoo Basin, Demonstration Erosion Control	386,530,741	374,504,006	12,026,736
Dam Safety Assurances-Sardis Dam	23,235,000	23,235,000	--
Subtotal	3,077,722,826	2,979,850,898	109,675,522
New Orleans District:			
Alexandria, LA to the Gulf (Rapides Par)	597,000	287,206	425,868
Amite River & Tributaries	--	--	326
Bayou Cocodrie and Tributaries	5,048,008	5,047,982	1,685
Bayou Dularge, Louisiana, Section	--	--	1,101
Bonnet Carre Spillway	6,952,000	5,061,962	2,795,245
Calcasieu River Basin	--	49,126	361,902
Coastal Wetland	4,287,887	3,125,613	9,276,851
Donaldsonville, LA	--	389,619	332,779
Miss. & LA Estuarine	4,636,591	4,634,585	2,006
Morganza, LA to Gulf of Mexico	3,936,000	1,308,068	5,360,234
Old River	301,974,000	302,042,923	5,338,615
Channel Imp B.R. Hbr Devil Swamp	394,000	146,576	274,229
Channel Improvement:			
Dredging	36,634,266	36,557,893	243,106
Revetments	1,128,213,793	1,123,799,080	5,469,562
Inspection of Completed Works	861,000	905,874	178,019
Mapping	561,000	542,279	249,011
Surv Gages & Observ	113,000	136,599	81,740
Ascension Parish, LA	--	--	31,159
Layfayette Parish, LA	--	--	165,239
LCA Ecosystem Restoration	4,188,865	3,374,901	813,964
Louisiana Penitentiary Levee	18,104,502	18,082,918	21,584
Lower Red River (South Bank Levees)	18,056,600	18,056,600	--
Major Rehab of Channels & Harbors	400,000	338,621	574,859
Planning Assistance to States	337,390	290,826	543,045

TABLE 41-V STATEMENT OF ALLOTMENTS AND ACCRUED EXPENDITURES FOR FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES, FROM MAY 15, 1928, THROUGH SEP. 30, 2008

District or Installation and Class of Work	Allotments	Accrued Expenditures	Unexpended Balance Sep. 30, 2008
New Orleans District Continued:			
Plaquemines Parish Urban Flood Control	--	49,567	2,918
Port of Iberia, LA	--	99	6,461
St. Bernard Parish	--	--	325,237
SS-Chitimach GIS Map, LA	--	--	1,335
Taylor Point Cut St. Mary Parish	--	--	1,225
West Shore, LK Pontchartrain	--	284,905	24,254
Levees Under Sec. 6, Flood Control Act of 1928	200,680	200,680	--
Mississippi River Levees	405,344,524	395,803,331	10,065,597
Mississippi Delta Region	110,709,542	108,451,526	2,296,432
Orleans Parish, LA	-21	8	--
Atchafalaya River Bayous Chene Bouef	--	--	190,629
Atchafalaya Basin Floodway:			
Atchafalaya Basin	1,047,225,661	1,030,843,325	20,252,858
Atchafalaya River Navigation	303,463	303,463	--
Atchafalaya Basin Floodway System	126,189,814	124,372,504	5,123,366
Subtotal	3,225,269,565	3,184,488,659	70,832,441
FY 06-08 SUPPLEMENTAL FUNDS			
Vicksburg District:			
Channel Improvement – Revetment Construct	1,000,000	1,000,000	--
Revetment Operations	1,500,000	--	1,500,000
Mississippi River Levees	1,500,000	--	1,500,000
Memphis District:			
Mississippi River Levees	40,000	40,000	--
St. Francis River and Tributaries	2,000,000	1,006,927	993,073
White River Backwater, AR	50,000	50,000	--
Revetment Operations	1,350,000	0	1,350,000
New Orleans District:			
General Investigations	8,500,000	998,697	7,501,303
Mississippi River Levees – Construct	20,300,000	78,452	10,221,548
Morganza, LA to the Gulf of Mexico	1,538,000	--	1,538,000
Channel Improvement – Revetment Construct	7,000,000	6,733,211	266,789
Atchafalaya Basin – Maintenance	15,800,000	15,216,068	550,000
Channel Improvement – Revetment Maint	29,000,000	28,913,732	86,268
Mapping	1,000,000	780,718	219,282
Mississippi Delta Region – Maint	1,000,000	480,411	519,589
Mississippi River Levees – Maint (420) Borrowed Funds	27,021,000	26,800,068	220,932
Mississippi River Levees – Maint	64,000,000	20,082,541	43,917,459
St. Louis District:			
Wappapello Lake	300,000	188,211	111,789
TOTAL SUPPLEMENTAL FUNDS	182,899,000	102,369,036	70,496,032
TOTAL UNCOMPLETED WORKS	8,465,584,930	8,200,216,379	313,596,851

MISSISSIPPI RIVER COMMISSION

**TABLE 41-V
(Continued)**

**STATEMENT OF ALLOTMENTS AND
ACCRUED EXPENDITURES FOR FLOOD
CONTROL, MISSISSIPPI RIVER AND
TRIBUTARIES, FROM MAY 15, 1928,
THROUGH SEP. 30, 2008**

District or Installation and Class of Work	Allotments	Accrued Expenditures	Unexpended Balance Sep. 30, 2008
ADVANCE ENGINEERING AND DESIGN (CONSTRUCTION)			
Memphis District:			
L'Anguille River Basin, AR	150,000	150,000	--
Reelfoot Lake, Lake No. 9	30,000	30,000	--
Cache River	420,000	420,000	--
Big Creek and Tributaries, Lower White River	365,000	365,000	--
Clarendon Levee, Lower White River	65,000	65,000	--
West Kentucky Tributaries	175,000	175,000	--
Mud Lake Pumping Station, TN	350,000	350,000	--
Harris Fork Creek, KY & TN	540,000	540,000	--
Subtotal	2,095,000	2,095,000	--
Vicksburg District:			
Yazoo Basin, Big Sunflower River, Steele Bayou	29,700	29,700	--
Tensas - National Wildlife Refuge, LA	200,000	200,000	--
Subtotal	229,700	229,700	--
New Orleans District:			
Mississippi Delta Region (EP 309)	69,753	69,753	--
Teche Vermilion Basin-Water Supply	1,109,000	1,109,000	--
East Rapides & S. Central Avoyelles Parishes	965,247	965,247	--
Subtotal	2,144,000	2,144,000	--
TOTAL ADVANCE ENGINEERING AND DESIGN	4,468,700	4,468,700	--
TOTAL COMPLETED WORKS, UNCOMPLETED WORKS AND ADVANCE ENGINEERING AND DESIGN	8,673,972,130	8,408,603,579	313,596,851
RECREATION FACILITIES--COMPLETED PROJECTS			
Eight-Year Project Funds:			
St. Louis District:			
Wappapello Lake, MO	2,405,300	2,405,300	--
Wappapello Lake, MO, Rockwood Landing	203,286	203,286	--
Subtotal	2,608,586	2,608,586	--
Vicksburg District:			
Sardis Lake	1,584,339	1,584,339	--
Enid Lake	2,268,209	2,268,209	--
Arkabutla Lake	2,189,280	2,189,280	--

**TABLE 41-V
(Continued)**

**STATEMENT OF ALLOTMENTS AND
ACCRUED EXPENDITURES FOR FLOOD
CONTROL, MISSISSIPPI RIVER AND
TRIBUTARIES, FROM MAY 15, 1928,
THROUGH SEP. 30, 2008**

<u>District or Installation and Class of Work</u>	<u>Allotments</u>	<u>Accrued Expenditures</u>	<u>Unexpended Balance Sep. 30, 2008</u>
Vicksburg District (Continued)			
Grenada Lake	1,631,281	1,631,281	--
Subtotal	7,673,109	7,673,109	--
Total Eight-Year Program Funds	10,281,695	10,281,695	--
Total chargeable against Flood Control Act Limitations Excluding Flood Control emergencies	8,303,814,863	8,084,728,819	8,235,053
Total Maintenance Since Jul. 18, 1941	4,755,303,780	4,708,174,643	61,285,394
Total Rehabilitation	31,113,000	31,113,000	--
Total Flood Control Emergencies	14,900,300	14,900,300	--
Total General Investigations	191,796,505	185,212,839	12,425,700
 Total flood control, MR&T appropriations	 13,296,928,448	 13,024,129,601	 81,946,147
 Appropriations in addition to flood control, MR&T Other appropriations itemized in footnote (1), pp. 2068-69, Annual Report for 1953	 32,068,909	 32,068,909	 --
Grand total appropriated to Sep. 30, 2008	<u>13,328,997,357</u>	<u>13,056,198,510</u>	<u>81,946,147</u>

NOTE: Preauthorization study costs chargeable to the MR&T authorization have been transferred to completed work. Costs not chargeable have been excluded from this report.

MISSISSIPPI RIVER COMMISSION

TABLE 41-W COST AND FINANCIAL STATEMENT

Project	Funding	FY05	FY06	FY07	FY08	Total Sep. 30, 2008
Mississippi River and tributaries (Regular Funds) ¹	General Investigations ² :					
	Allotted	6,807,000	8,932,000	4,213,500	9,101,000	185,651,140
	Cost	6,236,519	5,170,838	5,462,268	6,405,364	179,655,476
	Construction (includes advance engineering and design):					
	Allotted	134,179,000	233,245,300	197,731,500	152,772,000	8,144,833,288
	Cost	142,627,095	146,711,302	141,085,489	143,108,626	7,979,694,163
	Maintenance:					
	Allotted	162,918,000	167,383,375	188,959,615	190,529,000	4,722,496,893
	Cost	157,384,312	145,763,030	184,894,708	179,779,804	4,678,890,151
	Rehabilitations:					
	Allotted	--	--	--	--	31,113,000
	Cost	--	--	--	--	31,113,000
	Flood control emergencies (Maintenance):					
	Allotted	--	--	--	--	14,885,992
	Cost	--	--	--	--	14,885,992
(Supplemental Funds)	General Investigations:					
	Allotted	--	8,500,000	--	--	8,500,000
	Cost	--	175,610	823,087	--	998,697
	Construction:					
	Allotted	--	18,000,000	--	11,840,000	29,840,000
	Cost	--	3,751,101	3,982,110	118,452	7,851,663
	Maintenance:					
	Allotted	--	127,271,000	--	7,288,000	134,559,000
	Cost	--	60,494,552	29,545,380	1,285,138	91,325,070
(Contributed Funds)	New Work:					
	Contributed	--	--	--	--	34,339,413
	Cost	--	--	--	--	33,270,005
	Maintenance:					
	Contributed	5,240,000	1,883,459	5,040,014	268,000	33,149,507
	Cost	3,702,654	1,004,836	2,305,084	741,513	25,910,971

**TABLE 41-W COST AND FINANCIAL STATEMENT
(Continued)**

Project	Funding	FY05	FY06	FY07	FY08	Total Sep. 30, 2008
1. Appropriations were as follows:						
	Appropriations chargeable against Flood Control Act authorizations:					
	Flood Control, MR&T except for emergencies (excludes Maintenance allotments Aug. 18, 1941, through Sep. 30, 2008):					
					8,262,000,396	
					10,281,695	
					4,995,215	
					31,089,825	
					1,593,097	8,309,960,228
					14,885,922	
					14,378	14,900,300
	Additional funds not chargeable against Flood Control Act authorizations:					
	Appropriations for Flood Control, MR&T, except for flood control emergencies:					
					185,651,140	
					4,755,303,780	
					31,113,000	4,972,067,920
	Appropriations in addition to appropriations for Flood Control, MR&T (itemized in footnote (1), pp 2068-69, Annual Report for 1953):					
					32,068,909	32,068,909
	Budgetary and OCE Reserves:					
						<u>13,328,997,357</u>
	Grand total:					
	Reconciliation of appropriations and allotments:					
					13,291,319,220	
					31,089,825	
					4,995,215	
					1,607,475	
					<u>13,328,997,357</u>	
	Appropriations for past four reporting periods were as follows:					
		FY 05: \$303,904,000				
		FY 06: \$409,560,675				
		FY 07: \$390,904,615				
		FY 08: \$342,156,366				
	Supplemental Appropriations for past two reporting periods were as follows:					
		FY07: --				
		FY08: 19,128,000				

2. Totals for General Investigations include four projects transferred from Construction totals per DAEN-CWB-W, Aug 4, 1978, teletype.

MISSISSIPPI RIVER COMMISSION

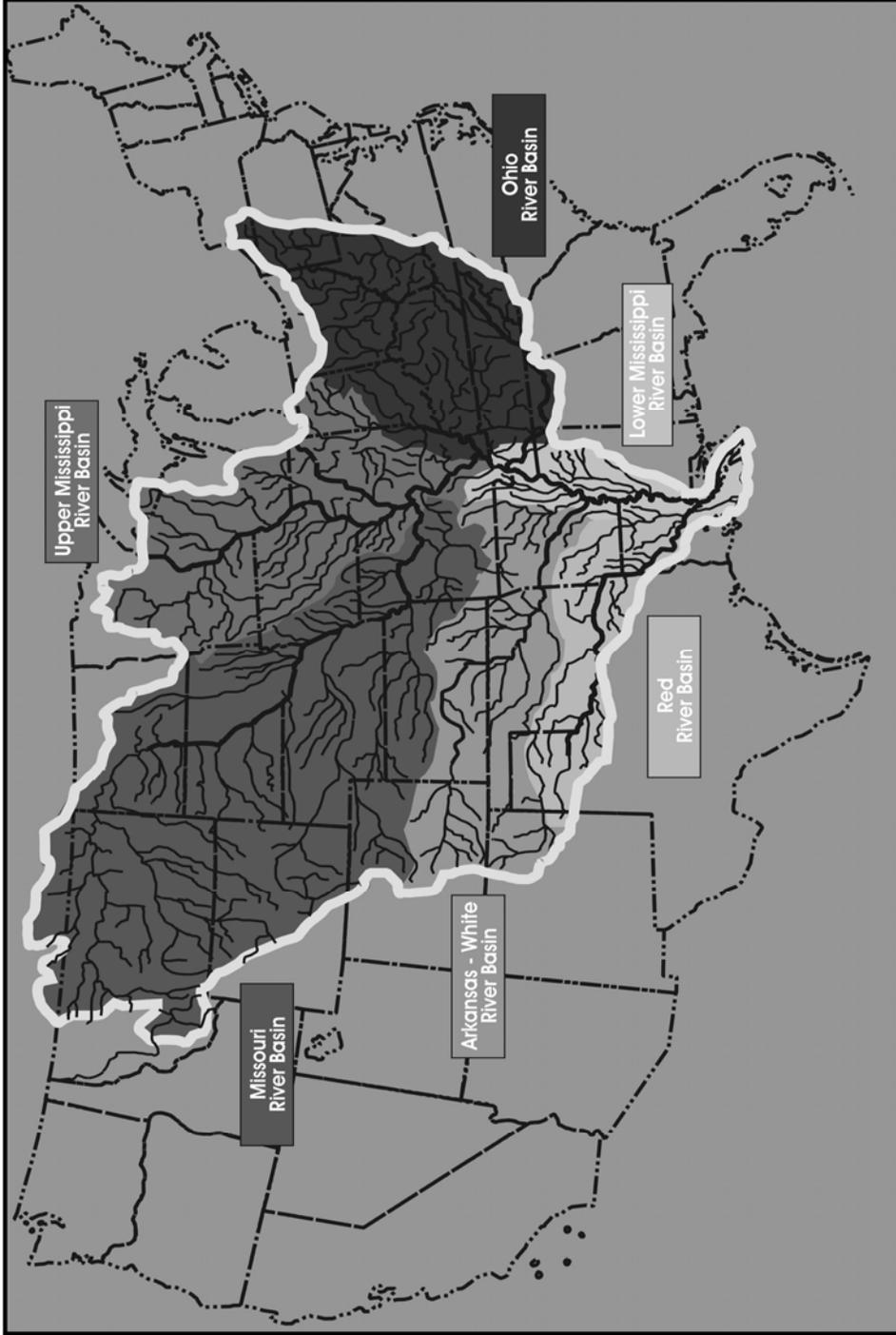
**TABLE 41-X MISSISSIPPI RIVER AND TRIBUTARIES
ACTIVE GENERAL INVESTIGATIONS
(96X3112)**

Item and CWIS Number	FISCAL YEAR COST		
	Federal	Non-Federal	Total
SURVEYS (Category 110)			
<u>Flood Damage Prevention (112)</u>			
<u>Vicksburg District</u>			
Atchafalaya River Bayous Chene Bouef - 013771	0	2,221	2,221
Subtotal	0	2,221	2,221
 <u>New Orleans District</u>			
Atchafalaya River Bayous Chene Boeuf & Black – 013771	0	0	0
Subtotal	0	0	0
TOTAL (Category 112)	0	2,221	2,221
 <u>Flood Damage Prevention-Recon Study (113)</u>			
<u>Vicksburg District</u>			
Coldwater Below Arkabutla Lake – 081356	17,781	--	17,781
Olive Branch MS - 081357	0	--	0
Subtotal	17,781	--	17,781
TOTAL (Category 113)	17,781	--	17,781
 <u>Flood Damage Prevention – Feasibility Study (114)</u>			
<u>Memphis District</u>			
Millington & Vicinity, TN – 081375	4,055	43,927	47,982
Subtotal	4,055	43,927	47,982
 <u>New Orleans District</u>			
Alexandria, LA to the Gulf – 081308	--	53,735	53,735
Donaldsonville, LA – 013510	104,733	284,886	389,619
Subtotal	104,733	338,621	443,354
TOTAL (Category 114)	108,788	382,548	491,336
 <u>Special Reconnaissance Study (115)</u>			
<u>Vicksburg District</u>			
Spring Bayou, LA – 081338	0	--	0
Subtotal	0	--	0
TOTAL (Category 115)	0	--	0
 <u>Comprehensive Reconnaissance Study (117)</u>			
<u>Memphis District</u>			
Memphis Metro Area, Storm Water Mgmt - 134715	81,305	--	81,305
Subtotal	81,305	--	81,305
TOTAL (Category 117)	81,305	--	81,305

**TABLE 41-X MISSISSIPPI RIVER AND TRIBUTARIES
(Continued) ACTIVE GENERAL INVESTIGATIONS
(96X3112)**

<u>Comprehensive Feasibility Study (118)</u>			
<u>Memphis District</u>			
Memphis Metro Area, TN & MS - 010461	0	--	0
Subtotal	0	--	0
<u>Vicksburg District</u>			
Southeast Arkansas Feasibility (Comp Feasibility) – 012756	398,833	371,090	769,923
Coldwater Below Arkabutla Lake - 081356	<u>259,992</u>	<u>38,119</u>	<u>298,111</u>
Subtotal	658,825	409,209	1,068,034
TOTAL (Category 118)	658,825	409,209	1,068,034
TOTAL (Category 110)	<u>866,699</u>	<u>793,978</u>	<u>1,660,677</u>
COLLECTION AND STUDY OF BASIC DATA (Category 120)			
Memphis District – Surveys, Gages & Observations – 81900	114,172	--	114,172
Vicksburg District - Surveys, Gages & Observations – 81900	474,000	--	474,000
New Orleans District - Surveys, Gages & Observations - 81900	136,599	--	136,599
New Orleans District – West Shore, LK Poncartrain – 010455	--	284,905	284,905
New Orleans District – Plaquemines Parish Urban Flood Cntrl – 013761	--	49,567	49,567
New Orleans District – Calcasieu River Basin – 014378	--	49,126	49,126
TOTAL (Category 120)	<u>724,771</u>	<u>383,598</u>	<u>1,108,369</u>
CONTINUATION OF PLANNING & ENGINEERING (Category 140)			
<u>Flood Control Projects (140)</u>			
<u>New Orleans District</u>			
LCA Ecosystem Restoration – 013573	--	3,374,901	3,374,901
Morganza, LA to Gulf of Mexico – 012875	<u>2,563,363</u>	<u>421,787</u>	<u>2,985,150</u>
TOTAL (Category 140)	2,563,363	3,796,688	6,360,051
PRE-CONSTRUCTION ENGINEERING & DESIGN (Category 160)			
<u>Flood Control Projects (162)</u>			
<u>Memphis District</u>			
Bayou Metro Basin, AR - 081307	<u>1,974,378</u>	--	<u>1,974,378</u>
TOTAL (Category 160)	1,974,378	--	1,974,378
GRAND TOTAL MR&T GENERAL INVESTIGATIONS	<u>6,129,211</u>	<u>4,974,264</u>	<u>11,103,475</u>

Mississippi River Drainage Basin



The seven-member Presidentially appointed Mississippi River Commission is responsible for the comprehensive Mississippi River and Tributaries project and engineering work associated with the Mississippi River drainage basin which impacts 41% of the United States and includes 1.25 million square miles, more than 250 tributaries, 31 states, and 2 Canadian provinces.

