

NEW ORLEANS, LA, DISTRICT

This district comprises a portion of Louisiana that is embraced in drainage basins that are tributary to the Mississippi River and Gulf of Mexico, except the Mississippi River above mile 325.5 above Head of Passes (AHP), the drainage area of Ouachita-Black River Basin, and small eastern and western portions of Louisiana that are tributary to Pearl River and Sabine River and Lake. The New Orleans District territory encompasses 30,000 square miles.

River to Sabine River, and the Passes of the Mississippi River. It exercises jurisdiction over flood control work on the Mississippi River from mile 325.5 AHP to the Gulf of Mexico; the Atchafalaya River; the Atchafalaya Basin; and maintenance of the project navigation channel of the Mississippi River below mile 325.5 AHP, under supervision of the President, Mississippi River Commission (MRC), and the Division Engineer, Mississippi Valley Division.

It includes sections of the Gulf Intracoastal Waterway from Lake Borgne Light 29 at the mouth of Pearl

IMPROVEMENTS

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1. INNER HARBOR NAVIGATION CANAL LOCK, LA

Location. The project is located within the city of New Orleans, Louisiana. It is a deep and shallow draft canal extending northward from the Mississippi River to Lake Pontchartrain.

Existing project. The existing Inner Harbor Navigation Canal Lock, completed in 1921 by the Port of New Orleans, has dimensions of 31.5 feet deep, 75 feet wide, and 640 feet long (usable length). It passes barge traffic between the Mississippi River and the Gulf Intracoastal Waterway and is a vital link in the nation's Inland Waterway System. Delays to the navigation traffic since 2004 average 12.5 hours. The latest 5-year average (2000-2005) yearly tonnage through the lock is almost 19 million tons. Major commodities include coal, petroleum products, and crude petroleum. Two major vehicular roadway bridges (Claiborne and St. Claude Avenues) and one railroad/roadway bridge (Florida Avenue) cross the canal in the vicinity of the existing lock. The Corps of Engineers bought the lock from the Port of New Orleans in 1985.

Local cooperation. The cost sharing for the replacement lock is specified in the Water Resources Development Act of 1986. The costs of the new lock were apportioned between general cargo navigation and inland navigation. Costs assigned to inland navigation are shared 50 percent from the Inland Waterway Trust Fund and 50 percent from regular Corps of Engineer's appropriations. Those costs assigned to general cargo navigation will be cost shared 65 percent Federal and 35 percent non-Federal with the Port of New Orleans, who signed a non-Federal Project Cooperation Agreement (PCA) in Sep 2001. The Recommended Plan is 40 feet deep by 110 feet wide by 1,200 feet long (usable length) and is estimated to cost \$804,000,000.

Terminal facilities. Two container ship berths and one other ship wharf are located on the canal in the vicinity of the existing lock.

Operations and results during the fiscal year. Replacement lock construction methods were being examined when the U.S. Federal District Court enjoined the project.

Condition as of Sep 30. Work is underway to complete a Supplemental EIS as directed by Federal Court.

2. MISSISSIPPI RIVER-GULF OUTLET, LA

Location. In State of Louisiana and the territorial waters of the United States and extends from existing Inner Harbor Navigation Canal at a point 7,500 feet north of existing IHNC lock and about 11,000 feet from Mississippi River, to a turning basin south of Michoud, LA, and then as a land and water cut from turning basin south of Michoud, LA, southeasterly to and along south shore of Lake Borgne and through marshes to and through Chandeleur Sound to 38-foot contour in Gulf of Mexico. (Refer to NOAA Coast Charts Nos. 11340, 11360, 11363, 11369, 11371, and 11373. Also, see MRC 1989 (57th edition) folio of maps, Mississippi River-Cairo, IL, to Gulf of Mexico, LA.)

Existing project. Provides for a seaway canal, 36 by 500 feet, extending 76 miles as a land and water cut from Michoud southeasterly to and along south shore of Lake Borgne (completed), and across Chandeleur Sound to Chandeleur Island and increasing gradually to 38 by 600 feet in Gulf of Mexico (completed), with protective jetties at entrance (completed), a permanent retention dike through Chandeleur Sound (authorized but not yet constructed), and a wing dike along islands as required (authorized but not yet constructed). It also provides for an inner tidewater harbor consisting of 1,000- by 2,000-foot turning basin 36 feet deep at landward end of seaway canal (completed), and a connecting channel 36 by 500 feet wide extending easterly along Gulf Intracoastal Waterway from turning basin (completed), including construction of a suitable highway bridge with approaches to carry Louisiana State Highway 47 (formerly 61) over channel. Construction was initiated March 1958. The channel unit is 90 percent complete and the shiplock unit is 8 percent complete. The total project is 76 percent complete. The channel was opened to navigation Jul. 25, 1963, and completed Jan. 20, 1968. Paris Road Bridge was completed Nov. 14, 1967. The plan further provides for future construction of a channel and lock in the vicinity of the existing lock to furnish an additional connection between tidewater harbor and Mississippi River (construction started). (See "Inner Harbor Navigation Canal Lock, LA" for more details).

A reevaluation study to determine the economic feasibility of continuing to maintain the 36-foot depth in the channel was initiated in FY99, at Federal expense. Concerns about increased maintenance dredging costs and ecosystem deterioration prompted the study. Hurricane Katrina struck Louisiana prior to completion of the reevaluation effort. Katrina

significantly impacted the economic factors used in developing the economic analysis portion of the reevaluation study. The MRGO is currently being studied for closure due to lack of economic benefits and environmental and storm damage concerns.

Local cooperation. Requirements of local cooperation are fully described on page 11-4 of FY 1986 Annual Report.

Terminal facilities. The terminal facilities located on the MRGO are no longer in operation since Hurricane Katrina.

Operations and results during fiscal year. No dredging contracts were awarded in FY 2007. Funds provided in Public Law 109-62 (commonly referred to as the 2nd Supplemental) were used to award one bank stabilization and two foreshore protection contracts in FY 2006 at a total cost of \$27,854,000 and one foreshore protection contract in FY 2007 in the amount of \$4,765,000. Public Law 109-234 (commonly referred to as the 4th Supplemental) provided \$3,300,000 to develop a comprehensive plan to deauthorize deep draft navigation.

Condition as of Sep. 30. The foreshore protection, south bank, Chalmette Area, Station 367+00 to 1007+00 is complete. The foreshore protection, north bank, Mile 56 to 50.5, is complete.

The MRGO Deep-Draft De-Authorization Interim Report was submitted to Congress on 15 December 2006, as directed in Public Law 109-234. The report indicated that both the deep draft and shallow draft navigation channels are not cost effective and recommended an earthen closure constructed at the Bayou LaLoutre Ridge. The final report is scheduled for submission to the Chief in early calendar year 2008.

Public Law 109-148 (the 3rd Supplemental) as modified by Public Law 109-234 provided \$75,000,000 to be used for the repair, construction or provision of measures or structures necessary to protect, restore or increase wetlands, and prevent saltwater intrusion or storm surge. A plan was developed to utilize this funding to create more than 3,345 acres of wetland fronting protection levees and 9.3 miles of shoreline protection on the thin land bridge between Lake Borgne and MRGO.

3. MISSISSIPPI RIVER SHIP CHANNEL, GULF TO BATON ROUGE, LA

Location. The project is located in the southeastern portion of Louisiana below Baton Rouge, and consists of the Mississippi River and its major outlet to the Gulf of Mexico, Southwest Pass.

Existing project. Provides more efficient deep-draft navigation access to the New Orleans and Baton Rouge reaches of the Mississippi River via Southwest Pass by enlarging the existing channel to a project depth of 55 feet and enlarging the adjacent channel along the left descending bank in New Orleans Harbor to a 40-foot depth, a turning basin at Baton Rouge, and training works in the passes to reduce maintenance.

Estimated cost of existing project (Oct. 1, 2002) is \$196,200,000 Federal and \$492,000,000 non-Federal. In addition, the Coast Guard is to provide navigation aids at an estimated cost of \$1,200,000.

Local cooperation. Requirements are described in full on pages 11-2 and 11-3 of the FY 92 Annual Report.

A third supplement to the LCA addressing the Permanent Saltwater Intrusion Mitigation Plan was executed on May 28, 1993.

A Project Cooperation Agreement (PCA) between the Government and the State of Louisiana was executed on Sep. 3, 1993 which provides for the dredging of a 45-foot channel from Mile 181 AHP to Baton Rouge.

Operations and results during fiscal year. Construction is underway on the permanent mitigation plan. The permanent mitigation plan consists of constructing an underwater sill, when needed, at Mile 64 AHP to prevent the intrusion of saltwater into water supplies of the metropolitan New Orleans area. The plan also provided for upgrading the Plaquemines Parish water distribution system which has been completed, providing fresh water to water treatment plants impacted by increased saltwater intrusion caused by the deeper channel. The underwater sill was constructed during FY 99 due to extremely low flows in the river which allowed salt water to threaten up river water supplies. The sill was successful in preventing impacts to these facilities.

Work has been initiated on the General Design Memorandum for the remaining authorized features of the project. This includes the deepening of the Mississippi River to 55 feet from the Gulf of Mexico to Baton Rouge. The State of Louisiana requested that the Corps not complete the report until clarifying language relative to cost sharing is included in a future Water Resources Development Act.

Condition as of Sep. 30. The 45-foot channel is completed from the Gulf to Baton Rouge. Construction of the permanent mitigation plan is underway. Work on the General Design Memorandum for the remaining authorized features continues.

The project was not funded in FY 2007.

Flood Control

4. COMITE RIVER (DIVERSION), LA

Location. In East Baton Rouge Parish, LA, between the Comite River and the Profit Island Chute of the Mississippi River, north of the town of Baker, LA, and south of the town of Zachary, LA.

Existing project. The project will provide protection for residents of the Comite River Basin by reducing stages in the river below the diversion point for events up to the 100-year flood event, and containing within-banks events up to the 10-year flood event. The authorized project consists of construction of an eight-mile diversion channel from the Comite River to an outfall into Lilly Bayou, and then a four-mile diversion along Lilly and Cooper Bayous to the Profit Island Chute of the Mississippi River. The project also includes a diversion structure in the new channel near the diversion point, and an outfall structure near and at the outfall into Lilly Bayou, and four control structures at the intersections of Whites, Cypress and Baton Rouge Bayous, the fourth near McHugh Road. Disposal areas will be constructed along both banks of the new channel to retain the flood waters from the Comite River along both side of the new channel, and clearing and snagging of White, Cypress and Baton Rouge Bayous north of the diversion channel will also be done. Mitigation for the project includes the planting of trees on cleared land near the diversion point and on portions of the disposal area, the protection and management of existing forested lands

near the diversion point. Upgrading two gauging stations and installing six new gauging stations to assist in flood prediction is also included in the project. The current approved cost of the project is \$174,000,000, including \$122,813,000 Federal cost and \$51,187,000 non-Federal cost. The Water Resources Development Act of 1999 authorized the Secretary to include the costs of highway relocations to be cost shared as project construction features.

Local cooperation. The cost sharing provisions contained in the Water Resources Development Act of 1986 require that local interests shall: (a) Provide to the Federal Government all lands, easements, rights-of-way, and dredged material disposal areas, and perform the necessary relocations required for construction, operation, and maintenance of the project (Current estimate is \$42,115,000); and (b) Provide to the Federal Government a cash contribution equal to 5 percent of the total cost of the project, excluding cultural resources (Current estimate is \$9,072,000). The total cost of items (a) and (b) mentioned above is limited to 50 percent of the total cost of the project.

Operations and results during the fiscal year. In FY 04, the Lilly Bayou Control Structure contract was awarded to a small business contractor in the amount of \$27.6 million for duration of three years. Federal funding restraints slowed construction, however, advancing Non-Federal funds allowed the contract to continue in FY 06. Funds received in FY 2007 allowed for the completion of the Lilly Bayou Control Structure contract.

Condition as of Sep. 30. Construction for the Lilly Bayou Control Structure Phase II continued, as well as continuing right-of-way acquisition.

5. GRAND ISLE AND VICINITY, LA

Location. In south Jefferson Parish, LA, along the Gulf of Mexico, about 50 miles south of New Orleans and 45 miles northwest of Southwest Pass (Mississippi River).

Existing project. The project provides protection from waves driven by hurricanes that have a frequency of recurrence of up to once in every 50 years. The plan consists of a berm and vegetated dune extending the length of Grand Isle's gulf shore and a jetty to stabilize

the western end of the island at Caminada Pass. The dune has a 10-foot-wide crown at an elevation of 11.5 feet National Geodetic Vertical Datum (NGVD), 1 on 5 side slopes, and protective vegetation. The sandfill berm slopes from an elevation of 8.5 feet NGVD at the toe of the dune 180 feet gulfward to an elevation of 3 feet NGVD and, from this point, assumes its natural slope to the offshore bottom. The jetty provided by the plan has a top width of 6 feet at an elevation of 4 feet mean sea level, 1 on 2 side slopes, and extends approximately 3,600 feet along the western end of the island at Caminada Pass. Estimated cost of project (October 1991) is \$20,933,000 Federal and \$12,567,000 non-Federal, including \$7,157,484 contributed funds. The repair and restoration of Grand Isle were accomplished by two separate contracts. The jetty extensions and sand bar removal contract (partial fix), was completed in early 1988. The dune repair and structural reinforcement contract was physically completed Sep. 4, 1991. The project has been turned over to the State of Louisiana for operation and maintenance.

The 1992 Dire Emergency Supplemental Appropriations Act provided funds to repair damage to the wave berm and dune caused by Hurricane Andrew and to add offshore breakwaters to the project as an integral part of the repair. The original plan was to construct 27 breakwater segments; however, only 23 breakwater segments were constructed due to limited federal funds. 19 additional breakwater segments were built in the summer of 1999 by the local sponsor.

Local cooperation. The existing sand and beach dune have been damaged as a result of a series of storms between 1998 and 2002. PL-99 Federal assistance was approved to repair the damages caused by Hurricane Lili and Tropical Storm Isidore. A sponsor's contractor accomplished the renourishment and the Corps will reimburse the 12 percent cost share. Renourishment was completed in March 2005. On August 29, 2005, Hurricane Katrina caused extensive damage to the island. Funding to repair the storm damage to the sand and beach dune, breakwaters, and other island features has been approved.

NORTH SHORE PROJECT

The Water Resources Development Act of 1996 authorized construction of \$17 million of additional improvements to the region subject to approval of a

report justifying the improvements. The District received \$250,000 to initiate the study. The study is considering improvements, building breakwaters along the north side of the island, and the north side of Fifi Island.

The Water Resources Development Act of 1999 authorized the Secretary to consider shore protection benefits that the project provides to the main land coast of Louisiana.

The study was continued in FY 05 with a Congressional add of \$75,000.

Operations and results during fiscal year. Emergency supplemental funding in the amount of \$909,000 was expended on the overall project in FY 07. Storm repair work will continue in FY 08. CG funds in the amount of \$77,000 were expended on the North Shore Project in FY 07.

Condition as of Sep. 30. The North Shore Project is on hold, awaiting further guidance from the local sponsor.

6. LAKE PONTCHARTRAIN AND VICINITY, LA (HURRICANE PROTECTION)

Location. In southeastern Louisiana, vicinity of New Orleans, in St. Charles, Jefferson, Orleans, St. Bernard, and St. Tammany Parishes, comprising lower land and water area between the Mississippi River alluvial ridge and the Pleistocene escarpment to north and west. The dominant topographic feature is Lake Pontchartrain, a shallow tidal basin, about 640 square miles in area and averaging 12 feet deep, connecting with lesser Lake Maurepas to the west and through Lake Borgne and Mississippi Sound to the Gulf to the east. The lake drains about 4,700 square miles of tributary area. (Refer to Geological Survey quadrangles Yscloskey and Malheureaux Point, Drum Bay, Door Point, Lake Eugenie, Oak Mound Bayou, Mitchell Keys, Lake Eloi, and Morgan Harbor; Engineer quadrangles Slidell, Covington, Ponchatoula, Springfield, Denham Springs, Donaldsonville, Mt. Airy, Bonnet Carre', Spanish Fort, Chef Menteur, Rigolets, St. Bernard, New Orleans, and Hahnville; and Coast and Geodetic Survey Charts Nos. 1115 and 1116.

Existing project. The project provides protection to that part of the greater New Orleans area east of the Mississippi River and other communities that border Lake Pontchartrain from the effects of hurricane-generated floods. The project is comprised of two major features: The Chalmette Area Plan and the High Level Plan. The Chalmette Area Plan consists of a levee and floodwall system around the Chalmette area and along the Mississippi River-Gulf Outlet, with connections to the Mississippi River levees. The High Level Plan provides for heightening and strengthening the existing hurricane protection levee systems in Orleans Parish and the east bank of Jefferson Parish, repairing and rehabilitating the Mandeville Seawall in St. Tammany Parish; building a new mainline hurricane levee on the east bank of the St. Charles Parish just north of U.S. Highway 61 (Airline Highway); raising and strengthening the existing levee which extends along the Jefferson-St. Charles Parish boundary between Lake Pontchartrain and Airline Highway; and deferring construction of the proposed navigation structure at Seabrook lock. Areas which will be enclosed by the levee and floodwall construction will be provided protection against tidal surge resulting from the Standard Project Hurricane (SPH). The estimated project cost for work (October 2005) is \$533,000,000 Federal and \$211,000,000 non-Federal.

Local cooperation. Requirements are described in full on page 11-5 of the FY 92 Annual Report.

Operations and results during fiscal year. Hurricane Katrina devastated the project on August 29, 2005. The storm surge resulted in numerous levee and floodwall failures. Investigations are continuing to determine the causes for these failures. Intensive efforts to reinstate the project protection by June 1, 2006 were completed. Additional efforts are underway to restore the project design elevation in undamaged portions of the project. Funding and authority have been provided to construct permanent closures of the outfall canals in Orleans Parish, new structures to close off the Inner Harbor Navigation Canal at Seabrook and on the MRGO, armoring at critical reaches, and increasing design elevations to provide 100-year level of protection, necessary because of wetland loss, subsidence and sea-level rise.

Emergency supplemental funding. Supplemental (P.L. 109-148) funding in the amount of \$390,987,000 was expended in FY 07. Of that amount, \$280,373,000 was expended on repairs; \$64,158,000 was used to rebuild the system to authorized design elevation; and \$27,470,000 was expended on accelerate to complete work. In addition, \$18,986,000 was expended on outfall canal closures and pumping stations, improvements to IHNC, armoring of levees, and reinforcing or replacing floodwalls. Supplemental (P.L. 109-234) CG funds in the amount of \$4,130,000 were also expended in FY 07 on E&D efforts to provide 100-year flood protection.

Condition as of Sep. 30. Major reconstruction of the project is underway. Repairs of damage caused by Hurricane Katrina have been completed. Design is underway to provide 100-year level of protection. During FY 07, 23 contracts were awarded and 13 contracts were completed.

7. LAROSE TO GOLDEN MEADOW, LA (HURRICANE PROTECTION)

Location. In coastal section of Louisiana, along Bayou Lafourche, and includes lands on both banks of the bayou from Larose to 2 miles south of Golden Meadow. (Refer to Geological Survey quadrangles Cutoff, Lake Felicity, Bay Dosgris, Golden Meadow Farms, Bay Tambour, Mink Bayou, Caminada Pass, Leeville, Belle Pass, Pelican Pass, and Calumet Island; Engineer quadrangles New Orleans, Hahnville, Point a la Hache, Baratavia, and Fort Livingston; and Coast and Geodetic Survey Charts Nos. 1115 and 1116.)

Existing project. Provides a loop levee about 40 miles long along both banks of Bayou Lafourche from Larose to South Golden Meadow; enlargement of 3 miles of existing levee at Golden Meadow; floodgates for navigation and hurricane protection in Bayou Lafourche at upper and lower bayou crossings; and about 8 miles of low interior levees to regulate intercepted drainage.

FY 2007 work consisted of design to construct levee lifts and to bring the project features to authorized design grade including pumping stations requested by

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the non-Federal sponsor, in lieu of gravity drainage structures. The project also includes navigable floodgates.

Local cooperation. Requirements are described in full on page 11-6 of the FY 92 Annual Report.

Operations and results during fiscal year. The Leon Theriot Lock model study and evaluation report was approved by the ASA (CW) and is now an authorized feature of the Larose to Golden Meadow project.

Emergency supplemental funding. Emergency supplemental funding in the amount of \$6,077,000 was expended in FY 07. Of that, \$2,132,000 was used for repairs and \$3,945,000 was used for accelerate to complete work. In addition, \$430,000 of CG carryover funds were expended in FY 07

Condition as of Sep. 30. The South Lafourche Levee District initiated construction to convert the existing Leon Theriot Floodgate into a lock using non-Federal funds. Hurricane Katrina impacted southern Louisiana and Mississippi on August 29, 2005. The Larose to Golden Meadow project sustained damage to one reach of levee berm and to the mitigation levee, but the project remained intact and it prevented flooding within the project area. Overall, in FY 07, two contracts were awarded and one was completed.

8. NEW ORLEANS TO VENICE, LA, (HURRICANE PROTECTION)

Location. Includes land subject to inundation by hurricane tides extending along both banks of the Mississippi River below New Orleans from vicinity of Phoenix to Venice, LA.

Existing project. Provides for improvements along Mississippi River below New Orleans, LA, for prevention of hurricane tidal flood damages by increasing heights of existing back levees and modifying existing drainage facilities where necessary in three separate reaches: Reach A, on the west bank from St. Jude to Tropical Bend, 18 miles, 4,340 acres protected; Reach B, on the west bank from Tropical Bend to Venice, 21 miles, 4,900 acres protected; and Reach C, on the east bank from Phoenix to Bohemia 16 miles, 5,470 acres protected, and raising the river levee on the west bank (MR&T levee) from City Price

to Venice, to a grade high enough to prevent overtopping by tidal surges from the east, generally called the West Bank River Plan. Reach B was later divided into two units, Reach B-1 from Tropical Bend to Fort Jackson and Reach B-2 from Fort Jackson to Venice, LA, as a result of a request made by the local agency.

Local cooperation. Provide all lands, easements, and rights-of-way including borrow areas and spoil disposal areas necessary for the construction of the project; accomplish all necessary alterations and relocations to roads, pipelines, cables, wharves, and other facilities required by the construction of the project; bear 30 percent of the first cost, and cash contribution or equivalent work to be paid either in a lump sum prior to initiation of construction or in installments prior to start of pertinent work items.

The local sponsor has requested that an area extending from the upstream limits of Reach A at City Price to St. Jude, Louisiana be incorporated into the project. This work involves upgrading 3.3 miles of existing non-Federal levees to project standards. The local sponsor has elected to pay all of the costs of this reach of levee. While the sponsor will not receive credit for these costs, the increased protected area is eligible for Federally subsidized flood insurance. Savings to the project achieved by a portion of levee no longer being required at the upstream end of Reach A, is creditable to the local sponsor. A Post Authorization Change report was prepared for this reach and was approved by the Lower Mississippi Valley Division on Mar. 6, 1992. Supplemental assurances for the City Price to St. Jude reach were accepted on Feb. 18, 1993.

Assuring Agency: Plaquemines Parish Government. Assurances for all reaches of the project have been furnished.

Operations and results during fiscal year. Hurricane Katrina devastated the project on August 29, 2005. The storm surge overtopped the protection and resulted in numerous levee and floodwall failures. Intensive efforts to reinstate the project protection are underway funded under Flood Control and Coastal Emergencies Appropriation, PL-109-148, which provided full Federal funding with no local share required.

Emergency supplemental funding. Emergency supplemental funding in the amount of \$78,641,000 was expended in FY 07. Of that, \$70,556,000 funded repairs and approximately \$3,900,000 was used for accelerate to complete the armoring work. The remaining \$4,184,000 was expended on incorporating non-Federal west bank levees in Plaquemines Parish into the New Orleans to Venice project.

Condition as of Sep. 30. All repair work was completed except for closeout work required on several reaches. Restoration and accelerate to complete work will continue, along with incorporating non-Federal levees in Plaquemines Parish. Overall, seven contracts were completed in FY 07.

9. SOUTHEAST LOUISIANA URBAN DRAINAGE PROJECT (FLOOD CONTROL)

Location. The authorized project is located in Orleans, Jefferson, and St. Tammany Parishes. Features in Orleans Parish (city of New Orleans) are located on the east bank of the Mississippi River. Work in Jefferson Parish is located on the east and west banks of the Mississippi River in the vicinity of New Orleans, LA. St. Tammany Parish features are located in the southern portion of the parish, near Lake Pontchartrain, in and around the communities of Slidell, Mandeville, Madisonville, Abita Springs, and Lacomb, LA.

Project features. The work in Orleans Parish consists of enlargement of a major pumping station, construction of 2 new stations, and improvements to 12 drainage canals and underground drainage lines. Jefferson Parish features include improvements to 5 pumping stations, construction of 2 new pump stations, and improvements to approximately 30 drainage canals. Work in St. Tammany includes: channel improvements, retention ponds, levees, and structure raising.

Local cooperation. The project requires that the local sponsor(s) provide all lands, easements, rights-of-way, relocations, and disposal areas (LERRDs) needed for project construction, as well as a minimum five percent cash contribution. The total (value) of the locals share must be a minimum of 25 percent of the project total, but not exceed 50 percent of the project total. Jefferson Parish and the Sewerage and Water Board of New Orleans executed the Project Cost-sharing Agreements (PCAs) in January 1997. No agreement has yet been executed for St. Tammany Parish work.

Operations and results during fiscal year. Federal construction began in March 1997. Since then, 50 construction contracts have been awarded and 40 have been completed.

In March 2005, a PCA amendment was executed with Jefferson Parish incorporating the East Bank Basin project and the East of Harvey Canal project on the basis of studies done under Sec. 533(d) of the WRDA of 1996. The Uptown Sec. 533(d) report was approved in October 2006. Six additional Sec. 533 (d) investigations continue in an attempt to determine whether there are more Federally justified plans for improving drainage. Preparation of PCA amendments continues.

Emergency supplemental funding. Emergency supplemental (P.L. 109-148) funding in the amount of \$37,646,000 was expended for accelerate to complete contracts. Seven contracts were awarded in FY 07.

Condition as of Sep. 30. In FY 07, emergency supplemental funds were used to award seven contracts and complete two contracts.

10. WEST BANK AND VICINITY, NEW ORLEANS, LA (HURRICANE PROTECTION)

Location. The project is located in Jefferson, Orleans and Plaquemines parishes on the West Bank of the Mississippi River in the vicinity of New Orleans, Louisiana.

The project area generally extends from the Jefferson-St. Charles Parish line to the community of Oakville in Plaquemines Parish and is bounded by the Mississippi River on the north and east and Lakes Cataouatche and Salvador and the GIWW on the south and west. The original project was from Westwego to Harvey Canal and was authorized by WRDA 86. WRDA 96 modified the project by adding the Lake Cataouatche area to the project and also authorized the East of Harvey Canal Hurricane Protection Project. WRDA 99 combined the three projects under the current name.

Existing project prior to the emergency funding supplement of 2006. The total project consists of about 57 miles of new and enlarged earthen levee, 9 miles of floodwall, a navigable floodgate in the Harvey Canal below Lapalco Boulevard, a discharge

channel and 1,000 cfs capacity increase at the Cousins Pump Station. The protection was originally designed to protect against tidal floodwaters resulting from the Standard Project Hurricane (SPH) storm used at the time of original authorization.

The elevation of the SPH protection varies from 9 to 12 feet NGVD. The project plan includes mitigation which consists of the construction of a timber pile and tire breakwater on the west bank of Lake Cataouatche adjacent to the Salvador Wildlife Management Area and the acquisition of approximately 1,300 acres of forested wetlands which will be managed to improve habitat quality.

Local cooperation. The project requires that the local sponsor provide all lands, easements, rights-of-way, relocations, and disposal areas (LERRDs) needed for project construction. The total (value) of the sponsors share must be a minimum 35 percent of the total project costs, in cash or creditable work.

Funds provided by non-Federal interests for interim hurricane protection on the Westwego to Harvey Canal area may be considered beneficial expenditures and may be credited as part of the non-Federal contribution of the project pursuant to the WRDA of 1986.

The Louisiana Department of Transportation and Development and West Jefferson Levee District executed amendment number 1 of the local cooperation agreement in April 1999. Amendment 2 to the PCA was executed on March 30, 2007.

Operations and results during fiscal year. Flood Control and Coastal Emergency (PL 109-148) funds were received in FY 06 in the wake of Hurricane Katrina. The funds will be used to accelerate the original project completion and restore original design elevations. Supplemental (P.L. 109-234) CG funds will be used to increase design elevations to provide a minimum of 100-year level of protection required because of wetlands loss, subsidence, and sea level change.

Emergency supplemental funding. Supplemental funding in the amount of \$136,393,000 was expended in FY 07. Of that, \$45,379,000 was expended on

repairs and restoration to authorized design elevations. In addition, \$85,514,000 was expended on accelerate to complete and \$5,500,000 was expended on armoring and floodwall reinforcing or replacement. Supplemental (P.L. 109-234) CG funds in the amount of \$1,355,000 were expended on E&D efforts to provide 100-year flood protection.

Conditions as of September 30. Major design and construction efforts continue to support the advance completion of all features of the project. A total of 15 contracts were awarded in FY 07.

11. AMITE RIVER AND TRIBUTARIES, EAST BATON ROUGE PARISH, LA (FLOOD DAMAGE REDUCTION)

Location. The project lies between the Mississippi River and Amite Rivers and the area is approximately 66 miles of channels in five sub-basins within East Baton Rouge Parish, LA. The five sub-basins are Blackwater Bayou and tributaries; Beaver Bayou; Jones Creek and tributaries; Ward Creek and tributaries; and Bayou Fountain. The project was authorized by PL 101-21, the Water Resources Development Act of 1999, and modified by Public Law 108-116.

Existing project. The project purpose is to reduce flooding by channel modifications within five watersheds, including the Baton Rouge, LA metropolitan area.

Local Cooperation. A 75/25 cost share and the "looking back" Work-in-Kind have been authorized in WRDA 2007. East Baton Rouge Parish is ready to negotiate the PCA. A Post Authorization Change report was prepared as the basis for reauthorization with a revision to the work-in-kind features. Work-in-kind will include design, construction, management, and mitigation of the proposed channel modifications for Bayou Fountain and Beaver Bayou, and perform all necessary clearing and snagging for channel modification on Blackwater Bayou, Weiner Creek, and Dawson Creek. Mitigation is also included for Dawson Creek.

Operations and results during fiscal year. Jones Creek #1 P&S has been completed. P&S for Ward Creek and detailed design report for Jones Creek #2 are set to begin.

Condition as of Sep. 30. A Post Authorization Change Report approved by Assistant Secretary of the Army, Civil Works has been authorized by WRDA 2007. Concurrently, design will continue as mentioned above.

12. INSPECTION OF COMPLETED FLOOD CONTROL PROJECTS

Various hurricane protection projects, as well as small flood control projects, were inspected during FY 07. Also, periodic inspection and continuing evaluation of completed civil works structures was conducted in accordance with ER 1110-2-100, at various times during the year on an as needed basis.

Fiscal year costs for the period were \$504,000. Total costs to Sep. 30, 2007 were \$8, 835,731.

13. FLOOD CONTROL WORK UNDER SPECIAL AUTHORIZATION

Emergency flood control activities—repair, flood fighting, and rescue work. Public Law 109-62, Public Law 109-148 and Public Law 109-234.)

During FY 07 the following funds were provided for Emergency Management at the New Orleans District: \$701,942 for Disaster Preparedness; \$1,801,788 for Response Operations.

In addition, \$718,824,000 was expended in FY 07 Supplemental funding to continue repairs and restoration from major damages sustained from Hurricanes Katrina and Rita to the Greater New Orleans Storm Hurricane Reduction System (Lake Pontchartrain and Vicinity, LA (HPP); Southeast Louisiana, LA: New Orleans to Venice, LA (HPP); Larose to Golden Meadow, LA; Grand Isle and Vicinity, LA). The FY 07 funds were utilized for repairs to pre-Katrina levels for restoration of projects and improvements to the Hurricane Protection System.

Condition as of Sep. 30. Contract awards for repairs began in FY 2005 and were completed in FY 06. Ongoing and future work includes: additional levee lifts and construction of new floodwalls to 100-year level of protection, construction of additional pumping plants, stormproofing of existing pumping plants, armoring of levees, and installation of gated structures.

As of September 2007, 135 construction contracts were awarded for \$1.137 billion. The repairs and restoration include 220 miles of levees and floodwalls that were completed by June 1, 2006.

14. PROTECTION OF NAVIGATION

During FY 07, \$24,794 was expended on operation and maintenance for Project Condition Surveys.

15. CATASTROPHIC DISASTER PREPAREDNESS PROGRAM

During FY07, the following funds were provided for Emergency Management at the New Orleans District in response to Hurricanes Katrina and Rita: \$1,800,000 for Response Operations.

16. COASTAL WETLANDS PLANNING, PROTECTION, AND RESTORATION ACT

Location. The coastal parishes of Louisiana.

Authority. Activities were authorized by the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) (Title III of Public Law 101-646, dated Nov. 29, 1990), which established the Louisiana Coastal Wetlands Conservation and Restoration Task Force. The Task Force consists of the Secretary of the Army as chairman, the Administrator of the Environmental Protection Agency, the Governor of the State of Louisiana, the Secretary of the Interior, the Secretary of Agriculture, and the Secretary of Commerce.

Local cooperation. The conditions of local cooperation were established by PL 101-646, as amended.

NEW ORLEANS, LA, DISTRICT

Project features. The Task Force approves projects to be developed for the long-term conservation of Louisiana's coastal wetlands. Projects are added to Priority Project lists (PPLs) on an annual basis. Projects approved on previous PPLs can be found in the 2006 Annual Report (pages 11-9 through 11-11). The Task Force approved the 17th PPL on October 25, 2007. Funds in the amount of \$10,805,478 were made available for construction of the following projects: Bayou Dupont Ridge Creation and Marsh Restoration, Bio-Engineered Oyster Reef Demonstration, Bohemia Mississippi River Reintroduction, Caernarvon Outfall, Sediment Containment System for Marsh Creation Demonstration, and West Pointe a la Hache Marsh Creation.

Operations and Results during fiscal year. See Table 11-I for projects completed, continued, and initiated in FY 07.

17. GENERAL REGULATORY PROGRAM

Permit Evaluation	\$5,217,318
Enforcement	\$282,293
Environmental Inspection Statement	\$0
Appeals	\$0
Compliance	<u>\$799</u>
Total General Regulatory Program	\$5,500,410

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2007

TABLE 11-A COST AND FINANCIAL STATEMENT

See Section in Text	Project	Funding	FY03	FY04	FY05	FY06	FY07	Total Funds to Sep 30, 2007
1	IHNC	New Work						
		Approp	8,879,500	5,384,000	5,618,000	3,829,000	7,750,000	69,030,000
		Cost	8,853,546	5,553,692	5,637,025	2,744,632	5,118,695	66,129,327
	IWWTF	Maint						
		Approp	8,879,500	5,384,000	7,261,000	3,829,000	7,750,000	67,427,500
		Cost	9,251,305	5,309,781	6,071,859	1,823,871	5,118,695	64,337,760
2	MRGO	New Work						
		Approp	538,000	739,000	300,000	0	0	83,364,000
		Cost	581,005	724,000	372,297	15,640	0	82,896,576
3	MRSC	New Work						
		Approp	16,600	196,000	0	170,001	85,000	27,760,001
		Cost	26,736	63,293	18,203	0	0	27,673,000
4	Comite River	New Work						
		Approp	4,949,000	4,153,000	8,070,000	6,191,000	0	42,079,0000
		Cost	5,333,73	4,132,195	8,051,500	5,428,759	166,852	41,947,671
5	Grand Isle Reevaluation	New Work						
		Approp	500,000	372,000	60,000	688,000	12,385,000	3,200,000
		Cost	501,071	415,746	23,809	416,642	13,057,932	2,638,594
6	Lake Pontchartrain	New Work						
		Approp	10,163,400	7,274,000	4,600,000	3,960,000	0	521,417,000
		Cost	10,412,869	7,392,230	9,274,120	1,451,755	4,130,134	462,851,936
	Contrib Funds	New Work						
		Contrib	1,600,000	4,013,500	4,600,000	0	0	157,557,237
		Cost	1,407,104	4,205,137	9,274,120	410,468	0	157,965,985
7	Larose to Golden Meadow	New Work						
		Approp	335,000	356,000	448,000	742,000	0	79,432,0
		Cost	333,794	351,860	377,508	151,081	430,229	79,198,4319
	Contrib Funds	New Work						
		Contrib	300,000	0	909,000	0	0	33,265,000
		Cost	53,365	29,917	428,000	0	4,316	33,269,316
8	N.O. to Venice	New Work						
		Approp	2,635,000	1,813,000	0	2,673,000	0	156,534,000
		Cost	2,768,566	1,816,169	0	28,704	563	153,729,742
	Contrib Funds	New Work						
		Contrib	2,110,000	1,924,000	1,924,000	0	0	666,652,000
		Cost	2,111,162	1,924,000	1,924,000	0	0	662,652,000

NEW ORLEANS, LA, DISTRICT

**TABLE 11-A
(Continued)**

COST AND FINANCIAL STATEMENT

See Section in Text	Project	Funding	FY03	FY04	FY05	FY06	FY07	Total Funds to Sep 30, 2007	
9	SELA	New Work							
		Approp	38,907,000	26,956,000	32,426,000	26,730,000	25,300,000	467,233,000	
		Cost	39,326,596	26,969,268	32,398,237	9,188,990	8,776,020	433,167,915	
	Contrib Funds	New Work							
		Contrib	9,768,775	4,925,291	720,000	0	885,372	103,890,372	
		Cost	9,858,801	5,009,178	5,661,572	0	900	103,005,900	
10	West Bank	New Work							
		Approp	9,068,700	21,818,760	25,753,000	27,720,000	0	156,845,000	
		Cost	9,551,032	21,286,730	25,727,680	15,298,904	12,977,437	157,354,449	
	Contrib Funds	New Work							
		Contrib	5,500,000	4,600,000	3,213,000	0	0	50,738,000	
		Cost	5,500,000	4,169,611	3,213,000	0	0	50,307,691	
11	E. Baton Rouge Parish	New Work							
		Approp	757,000	403,000	421,000	742,000	300,000	3,405,000	
		Cost	809,563	376,000	428,000	477,047	472,560	3,312,607	
13	Hurricane Protection System	New Work							
		Approp	0	0	0	2,175,245,000	4,312,789,000	6,488,034,000	
		Cost	0	0	0	650,667,000	718,824,000	1,369,491,000	
17	CWPPRA	New Wk							
		Approp	56,938,097	59,023,130	58,054,072	63,059,645	76,402,872	794,442,499	
		Cost	34,715,136	32,100,994	41,376,756	40,167,600	62,989,172	415,944,433	
	Contrib Funds	New Wk							
		Contrib	880,883	7,367,922	1,723,178	0	1,929,156	28,440,473	
		Cost	255,664	1,047,865	489,633	2,542,186	3,698,516	22,394,671	

TABLE 11-B AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
Water Resources Development Act, 1986	<p>LAKE CHARLES, LA The project for deepening of the project for navigation, Lake Charles, Louisiana, to a depth of 45 feet, at a total cost of \$1,070,000.</p>	Public Law 99-662, Nov. 17, 1986
Mar. 2, 1945	<p>MISSISSIPPI RIVER, BATON ROUGE TO GULF OF MEXICO, LA Combines projects of Mississippi River, Baton Rouge to New Orleans, Mississippi River, South Pass, and Southwest Pass, adding thereto project for Mississippi River from New Orleans to Head of Passes, to provide a single project, "Mississippi River, Baton Rouge to the Gulf of Mexico," with channel dimensions as follows: Baton Rouge to New Orleans, 35 by 500 feet; port limits of New Orleans, 35 by 1,500 feet; New Orleans to Head of Passes, 40 by 1,000 feet; Southwest Pass, 40 by 800 feet; Southwest Pass Bar Channel, 40 by 600 feet; South Pass, 30 by 450 feet; South Pass Bar Channel, 30 by 600 feet.</p>	H. Doc. 215, 76th Cong., 1st sess.
Oct. 23, 1962	<p>Deepen existing channel from 35 to 40 feet by 500 feet wide from one-tenth mile below Louisiana Highway Commission bridge at Baton Rouge to upper limits of Port of New Orleans, and also 40 by 500 feet within presently authorized 35- by 1,500-foot channel in port limits of New Orleans.</p>	S. Doc. 36, 87th Cong., 1st sess.
Mar. 29, 1956	<p>MISSISSIPPI RIVER-GULF OUTLET, LA (See Sec. 2 of Text) Construct a seaway canal 36 feet deep and 500 feet wide from Michoud to 38-foot contour in gulf and an inner tidewater harbor consisting of a 1,000- by 2,000-foot turning basin 36 feet deep and a connecting channel 36 feet deep and 500 feet wide to Inner Harbor Navigation Canal and provides, when economically justified, for construction of a lock to Mississippi River in the vicinity of Meraux, LA.</p>	H. Doc. 245, 82d Cong., 1st sess.
Oct. 22, 1976	<p>Amends above Act making the construction of bridge relocations a Federal responsibility when required by the the construction of the Mississippi River-Gulf Outlet channel.</p>	Sec. 186, Water Resources Development Act of 1976 (PL 94-587) 2d sess.
Water Resources Development Act, 1986	<p>The Mississippi River-Gulf Outlet feature is modified to provide that the replacement and expansion of the existing industrial canal lock and connecting channels or the construction of an additional lock and connecting channels shall be in the area of the existing lock or at the Violet site.</p>	Public Law 99-662, Nov. 17, 1986
Water Resources Development Act, 1996	<p>Amends above Act of 1986 to include a Community Impact Mitigation Plan as an authorized feature of the project to replace the Inner Harbor Navigation Canal Lock.</p>	Public Law 104-303 Oct. 12, 1996

NEW ORLEANS, LA, DISTRICT

**TABLE 11-B
(Continued)**

AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
<p>Approp. Act of 1985, dated Jul. 2, 1986 (PL 99-88)</p>	<p>MISSISSIPPI RIVER SHIP CHANNEL, GULF TO BATON ROUGE, LA (See Sec. 3 of Text) Will provide more efficient deep-draft navigation access to the New Orleans and Baton Rouge reaches of the Mississippi River via Southwest Pass by enlarging the existing channel to a project depth of 55 feet and enlarging the adjacent channel along the left descending bank in New Orleans Harbor to a 40-foot depth, a turning basin at Baton Rouge, and training works in the passes to reduce maintenance.</p>	<p>H. Doc. 2577, 99th Cong., 1st sess.</p>
<p>Nov. 17, 1986 (PL 99-662)</p>	<p>Formalizes the cost sharing provisions of the project, permits the State of Louisiana to enact user fees to defray their portion of the project costs, and implements harbor maintenance fees to help pay for the Federal cost of the project. It also provides an option to the local sponsor to defer their initial payment for one year following initiation of construction. In terms of channel depths up to 45 feet, the cost sharing requirements are 75 percent Federal and 25 percent non-Federal for construction and 100 percent Federal for maintenance. For channels deeper than 45 feet, the cost sharing requirements are 50 percent Federal and 50 percent non-Federal for both construction and maintenance.</p>	<p>Water Resources Development Act of 1986, 99th Cong., 2d sess.</p>
<p>Water Resources Development Act, 1996</p>	<p>PORT FOURCHON, LA Provides a Federal navigation channel with a project depth of 24 feet MLLW in Bayou Lafourche, Belle Pass, and the Gulf of Mexico to improve navigation access to Port Fourchon at a total cost of \$4,440,000, with an estimated Federal cost of \$2,300,000 and an estimated non-Federal cost of \$2,140,000.</p>	<p>Public Law 104-303, 104th Congress (See Section 101) Oct. 12, 1996</p>
<p>Aug. 30, 1985</p>	<p>WATERWAY FROM INTRACOASTAL WATERWAY TO BAYOU DULAC, LA (Bayous Grand Caillou and LeCarpe, LA) Channel 5 by 40 feet from Intracoastal Waterway at Houma through Bayou LeCarpe, Bayou Pelton, and Bayou Grand Caillou to Bayou Dulac, about 16.3 miles.</p>	<p>H. Doc. 206, 72d Cong., 1st sess.</p>
<p>Oct. 23, 1962</p>	<p>Channel 10 by 45 feet in Bayou LeCarpe from Gulf Intracoastal Waterway to Houma navigation canal.</p>	
<p>Water Resources Development Act, 1986</p>	<p>BAYOU RIGOLETTE, LA A project to construct six additional floodgates at Bayou Rigolette, LA, adjacent to the existing drainage structure, at a total cost of \$2,300,000.</p>	<p>Public Law 99-662, Nov. 17, 1986</p>
<p>Water Resources Development Act, 1999 August 17, 1999</p>	<p>AMITE RIVER AND TRIBUTARIES, LOUISIANA, EAST BATON ROUGE PARISH WATERSHED Amite River and Tributaries, Louisiana, East Baton Rouge Parish Watershed. The project for flood damage reduction and recreation, Amite River and tributaries, Louisiana, East Baton Rouge Parish Watershed.</p>	<p>Public Law 106-53 August 17, 1999</p>

TABLE 11-B **AUTHORIZING LEGISLATION**
(Continued)

Acts	Work Authorized	Documents
Water Resources Development Act, 1992	COMITE RIVER, LA (Diversion) (See Sec. 4 of Text) Construct an eight-mile diversion channel from the Comite River to an outfall into Lilly Bayou, and then a four-mile diversion along Lilly and Cooper Bayous to the Profit Island Chute of the Mississippi River. Also included a diversion structure in the new channel near the diversion point, and an outfall structure near and at the outfall into Lilly Bayou, and three control structures at the intersections of Whites, Cypress and Baton Rouge Bayous.	Public Law 102-580 Section 101 (11) Oct. 31, 1992
Water Resources Development Act, 1996		Public Law 104-305 Section 301(b)(5) Oct. 12, 1996
Energy and Water Development Appropriations Act, FY 1999	Provided funding authority in the amount of \$930,000 to initiate construction.	Public Law 105-245 Oct. 7, 1998
Adopted by Committee Resolutions Sep. 23, 1976, and Oct. 1, 1976 ²	GRAND ISLE AND VICINITY, LA (See Sec. 5 of Text) To provide hurricane protection by placement of a berm and vegetated dune extending the length of Grand Isle's gulf shore and a jetty to stabilize the western end of the island at Caminada Pass.	H. Doc. 639, 94th Cong., 2d sess.
Oct. 27, 1965	LAKE PONTCHARTRAIN AND VICINITY, LA (HURRICANE PROTECTION) (See Sec. 6 of Text) Control of hurricane tides by construction of two independent units, the Lake Pontchartrain Barrier plan and the Chalmette Area plan.	H. Doc. 231, 89th Cong., 1st sess.
Section 107, Rivers and Harbors Act of 1960, as amended	NORTH PASS - PASS MANCHAC, LA The Corps of Engineers may construct small river and harbor improvement projects not specifically authorized by Congress when they will result in substantial benefits to navigation.	Public Law 86-645 Jul. 14, 1960
Water Resources Development Act, 1986 Nov. 17, 1988	LAKE PONTCHARTRAIN, NORTH SHORE, LA The project for navigation, Lake Pontchartrain North Shore, LA: Report of the Chief of Engineers, dated February 14, 1979, at a total cost of \$1,310,000, with an estimated first Federal cost of \$655,000 and an estimated first non-Federal cost of \$655,000.	Public Law 99-662, Nov. 17, 1986, 99th Cong., 2d sess.
Water Resources Development Act, 1992	LAKE PONTCHARTRAIN STORMWATER DISCHARGE, LA (See Section 9 of Text) Provides for design and construction of project to address water quality problems associated with stormwater discharges.	Public Law 102-580

**TABLE 11-B
(Continued)**

AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
Oct. 27, 1965	<p>LAROSE TO GOLDEN MEADOW, LA (HURRICANE PROTECTION) (See Sec. 7 of Text) A loop levee about 40 miles long along both banks of Bayou Lafourche from Golden Meadow to Larose; enlargement of 3 miles of existing levee at Golden Meadow; floodgates for navigation and hurricane protection in Bayou Lafourche at upper and lower bayou crossings; about 8 miles of low interior levees to regulate intercepted drainage; and seven multibarreled culverts controlled by flapgates.</p>	H. Doc. 184, 89th Cong., 1st sess. ¹
Oct. 27, 1965	<p>MORGAN CITY AND VICINITY, LA, HURRICANE PROTECTION Construction of new levees along Lake Palourde and Bayou Ramos, levee to tie-in with Bayou Boeuf lock levee and three gravity drainage structures in Morgan City unit and enlargement of bank levee, construction of new levee, and construction of one floodgate and five gravity drainage structures in Franklin and vicinity unit. The Franklin Area separable element was de-authorized on 1 May 1997.</p>	H. Doc. 167, 89th Cong., 1st sess.
Section 14, Flood Control Act of 1946	<p>MERMENTAU RIVER - GRAND CHENIER, LA Construction of emergency bank-protection works to prevent flood damage to highways, bridge approaches and public works.</p>	Public Law 526, 79th Cong, 2d sess. Jul. 24, 1946
Oct. 23, 1962	<p>NEW ORLEANS TO VENICE, LA, HURRICANE PROTECTION (See Sec. 8 of Text) Improvements along Mississippi River below New Orleans, LA, for prevention of hurricane tidal flood damages by increasing heights of existing back levees and modifying existing drainage facilities where necessary in five separate reaches.</p>	H. Doc. 550, 87th Cong., 2d sess.
Energy and Water Development Appropriations Act, FY 1996	<p>SOUTHEAST LOUISIANA, LA (See Section 9 of text) Provides for drainage canal and pump station improvements in Orleans and Jefferson Parishes, and drainage improvements, flood protection and structure raising in St. Tammany Parish.</p>	Public Law 104-46 (Sec 108)
Water Resources Development Act, 1996	<p>SOUTHEAST LOUISIANA, LA (See Section 9 of text) Provides for drainage canal and pump station improvements in Orleans and Jefferson Parishes, and drainage improvements, flood protection and structure raising in St. Tammany Parish.</p>	Public Law 104-303 (Sec 533)
Water Resources Development Act, 1999	<p>WEST BANK AND VICINITY, NEW ORLEANS, LA HURRICANE PROTECTION Combination of Projects - Section 328(b) of WRDA 99 states: The Secretary shall carry out work authorized as part of the Westwego to Harvey Canal project, the East of Harvey Canal project, and the Lake Cataouatche modifications as a single project, to be known as the "West Bank and Vicinity, New Orleans, Louisiana, Hurricane Protection", with a combined total cost of \$280,300,000.</p>	Public Law 106-53, Aug. 17, 1999

TABLE 11-B **AUTHORIZING LEGISLATION**
(Continued)

Acts	Work Authorized	Documents
Water Resources Development Act, 1986	Westwego to Harvey Canal - Section 401(b) of WRDA 86 states: Structural and nonstructural measures to prevent flood damage to those areas identified in the Feb. 1984 draft Environmental Impact Statement for the West Bank Hurricane Protection Levee, Jefferson Parish, LA at a total cost of \$61,500,000, with an estimated first Federal cost of \$40,000,000 and as estimated first non-Federal Cost of \$21,500,000. Funds provided by non-Federal interest for interim hurricane protection may be considered beneficial expenditures and may be credited as part of the non-Federal contribution of the project pursuant to Section 104 of this Act.	Public Law 99-662, Nov 17, 1986
Water Resources Development Act, 1996	East of Harvey Canal - Section 101(a)(17) of WRDA96 states: The project for hurricane damage reduction, West Bank of the Mississippi River in the vicinity of New Orleans (East of Harvey Canal), Louisiana: Report of the Chief of Engineers, dated May 1, 1995, at a total cost of \$126,000,000, with an estimated Federal cost of 82,200,000 and an estimated non-Federal cost of \$43,800,000.	Public Law 104-303
Water Resources Development Act, 1996	Lake Cataouatche - Section 101(b)(11) of WRDA 96 states: The project for hurricane damage prevention and flood control, West Bank Hurricane Protection (Lake Cataouatche Area), Jefferson Parish, Louisiana, at a total cost of \$14,375,000 with an estimated Federal cost of \$9,344,000 and an estimated non-Federal cost of \$5,031,000.	Public Law 104-303
Coastal Wetlands Planning, Protection and Restoration Act	COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT (See Section 16 of Text) Directed the Secretary of the Army to convene the Louisiana Coastal Wetlands Conservation and Restoration Task Force to initiate a process to identify and prepare a list of coastal wetlands restoration projects in Louisiana to provide for the the long-term conservation of such wetlands and dependent fish and wildlife populations in order of priority in creating, restoring, protecting, and enhancing coastal wetlands, taking into account the quality of such coastal wetlands, with due allowance for small-scale projects necessary to demonstrate the use of new techniques or materials for coastal wetlands restoration.	Public Law 101-64 Nov. 24, 1990 Section 301-306
Second Emergency Supplemental Appropriations Act To Meet Immediate Needs Arising from the Consequences of Hurricane Katrina, 2005	Emergency Supplemental appropriations to meet immediate needs arising from the consequences of Hurricane Katrina. Provided \$200 million in O&M, General funds for emergency expenses for repair of storm damage to authorized projects; Provided \$200 million in FC&CE funds for emergency expenses for repair of damage to flood control and hurricane shore protection projects.	Public Law 109-62 September 8, 2005

**TABLE 11-B
(Continued)**

AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
Emergency Supplemental Appropriations to Address Hurricanes in The Gulf of Mexico, And Pandemic Influenza Act, 2006	<p>Emergency Supplemental Appropriations to Address Hurricanes in the Gulf of Mexico and Pandemic Influenza Act Provided GI funds to expedite studies of flood and storm damage; Additional amounts for CG to rehabilitate and repair Corps projects; provided MR&T funds for repairs; provided \$75 million in O&M General funds for authorized maintenance activities along the MRGO Channel; provided FC&CE funds to accelerate completion of unconstructed portions of certain authorized projects.</p>	Public Law 109-148 December 30, 2005 Div B, Title I, Chap. 3
Emergency Supplemental Appropriations Act For Defense, Global War on Terror and Hurricane Recovery	<p>Emergency Supplemental Appropriations Act for Defense, Global War on Terror and Hurricane Recovery Directed the Secretary of the Army to use the funds appropriated to modify certain authorized projects in southeast Louisiana to provide hurricane and storm damage reduction and flood damage reduction in the greater New Orleans and surrounding areas. Provided GI, CG, and FC&CE funds.</p>	Public Law 109-234 June 15, 2006 Title II, Chapter 3

1. Contains latest published map.
2. Permanent Appropriation Repeal Act.

TABLE 11-C OTHER AUTHORIZED NAVIGATION PROJECTS

Project	Status	For Last Full Report See Annual Report For	Cost To September 30, 2007		Mo. and Yr. Completed Deauthorized or Reclassified
			Construction	Operation and Maintenance	
Alteration of Berwick Bay Bridge ¹	--	1967	\$ --	\$ --	--
Amite River and Bayou Manchac, LA	Complete	1978	28,234	69,087	1928
Aquatic Plant Control Program, LA	Complete	1984	17,098,851	--	
Atchafalaya River Bayous Chene Boeuf, and Black, LA	Complete	1984	30,356,691	251,717,485	
Atchafalaya River, Morgan City to Gulf of Mexico, LA	Complete	1981	501,963	37,167,654	1914
Barataria Bay Waterway, LA	Complete	1984	1,572,685	39,492,058	Nov. 1963
Bayou Bonfouca, LA	Complete	1974	30,997	320,758	1931
Bayou Dorcheat, Loggy Bayou and Lake Bisteneau, LA ^{2,3,4,5}	--	1887	5,000	--	--
Bayou Dupre, LA	Complete	1968	38,915	104,187	1939
Bayou Lacombe, LA	Complete	1967	4,716	312,710	1938
Bayou Lafourche and Lafourche Jump Waterway, LA		1984	1,624,424	11,374,170	
Bayou La Lautre, St. Malo, and Yscolskey, LA	Complete	1970	96,916	223,616	May 1956
Bayou Plaquemine Brule, LA	Complete	1950	33,410	36,780	1915
Bayou Queue de Tortue, LA	Complete	1970	33,355	28,315	Mar. 1923
Bayou Segnette Waterway, LA	--	1958	238,828	3,033,110	--
Bayou Teche, LA		1984	754,330	20,359,209	
Bayou Teche & Vermilion River, LA	Complete	1983	2,891,822	2,815,462	Mar. 1957
Bayou Terrebonne, LA ^{3,6}	Complete	1961	120,089	251,691	1916
Bayou Vermilion, LA ³	Complete	1947	34,900	200,169	1896
Big Pigeon and Little Pigeon Bayous, LA	Complete	1936	--	37,169	²
Calcasieu River and Pass, LA	Complete	1984	27,830,835	304,960,343	Oct. 1968
Calcasieu River at Coon Island, LA ⁷	Complete	1976	1,015,814 ⁹	--	Apr. 1974
Calcasieu River at Devil's Elbow, LA	Complete	1981	5,856,200	--	Sep. 1978
Cascasieu River Salt Water Barrier, LA ⁸	Complete	1973	4,197,262	--	Jan. 1968
Cane River, LA ^{2,5}	--	1910	2,500	2,000	--
Chefuncte River and Bogue Falia, LA	Complete	1967	58,342	584,440	1959
Cypress Bayou and Waterway between Jefferson, TX, and Shreveport, LA ⁹	Complete	1971	202,817	452,611	Dec. 1914
Freshwater Bayou, LA	Complete	1984	7,116,224	57,137,034	Aug. 1968
Grand Bayou Pass, LA	Complete	1950	7,676	14,480 ⁹	1939
Gulf Intracoastal Waterway between Apalachee Bay, FL, & Mexican Border	Complete	1985	63,284,470	714,030,719	--
Houma Navigation Canal, LA		1984	--	62,194,266	
Inland Waterway from Franklin to Mermentau River, LA ^{1,10}	Complete	1960	249,052	552,780	²
Intracoastal Waterway from the Mississippi River to Bayou Teche, LA ¹¹	--	1956	--	11,699	--
Lake Charles Deep Water Channel, LA ¹²	--	1950	--	241,896	--
Leland Bowman Lock, LA	Complete	1987	32,200,010	--	Mar. 1985
Little Caillou Bayou, LA	Complete	1973	77,761	751,485	1929
Mermentau River, Bayou Nezpique, and Bay Des Cannes, LA	Complete	1977	5,197,975 ¹³	114,519	--
Mermentau River, LA	Complete	1985	4,672,579	64,186,123	Jul. 1952
Mississippi River Baton Rouge to Gulf of Mexico, LA	--	1991	84,568,128 ¹⁵	1,416,364,677 ¹⁶	--

NEW ORLEANS, LA, DISTRICT

**TABLE 11-C OTHER AUTHORIZED NAVIGATION PROJECTS
(Continued)**

Project	Status	For Last Full Report See Annual Report For	Cost To September 30, 2007		Mo. and Yr. Completed Deauthorized or Reclassified
			Construction	Operation and Maintenance	
Mississippi River-Gulf Outlet, Michoud Canal, LA	Complete	1976	2,499,555	1,271,252	Nov. 1974
Mississippi River Outlets, Venice, LA	Complete	1986	10,014,012	63,620,640	Complete
Navigation work under special authorization (Calcasieu Pass channel in Old River Bend at Cameron, LA) ¹⁴	--	1957	--	139,755	--
North Pass-Pass Manchac, LA	Complete	1996	533,492	--	May 1995
Pass Manchac, LA	Complete	1950	79,845	124,681	1912
Petite Anse, Tigre, and Carlin Bayous, LA	Complete	1981	--	1,453,172	Nov. 1980
Removal of Aquatic Growth, LA		1984	--	54,570,138	
Sulphur River, AR and TX ^{2,5}	--	1919	45,989	--	--
Tangipahoa River, LA	--	1985	--	2,903,990	--
Tickfaw, Natalbany, Ponchatoula, and Blood Rivers, LA ³	Complete	1973	8,115	94,164	1921
Waterway from White Lake to Pecan Island, LA ¹⁰	--	1948	10,904	742	--
Waterway from Empire, LA, to Gulf of Mexico	Complete	1981	1,068,142	1,759,217	Jun. 1950
Waterway from Intracoastal Waterway to Bayou Dulac, LA	Complete	1990	641,608	2,679,032	Aug. 1964

1. Transferred to Department of Transportation. Authorized under Truman-Hobbs Act.
2. Completed. Date will be furnished when available.
3. Includes previous project costs.
4. No commerce reported.
5. Abandonment recommended in H. Doc. 467, 69th Cong., 1st sess.
6. By Public Law 88-404, that portion of Bayou Terrebonne between point where Barrow Street crosses said stream and a line determined by prolonging and extending eastern right-of-way line of New Orleans Boulevard southerly to south bank of said stream was declared nonnavigable.
7. Includes \$66,000 contributed funds.
8. Operation and maintenance of the structure reported under project "Calcasieu River and Pass, LA."
9. Excludes \$50,000 contributed funds.
10. Not completed; incorporated in navigation project "Mermentau River, LA."
11. Not completed; superseded for most of it length by present 12- by 125-foot Gulf Intracoastal Waterway, which coincides with or parallels it.
12. Maintenance project; no future work schedules.
13. Includes \$57,555 (\$29,974 of which was from Public Works funds) for new work on previous project. Includes \$114,519 for maintenance of previous project.
14. Work is under continuing authority.
15. Includes \$1,729,989 for previous project.
16. Does not include expenditures of \$8,000,000 for Dredge Wheeler Ready Reserve for 2007.

TABLE 11-D OTHER AUTHORIZED FLOOD CONTROL PROJECTS

Project	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
		Construction	Operation and Maintenance	
Amite River and Tributaries, LA	1964	3,034,255 ¹	--	Feb. 1964
Bayou Choupique, LA ²	1954	129,930	--	Mar. 1954
Bayou Rapides, LA ²	1952	95,179	--	Dec. 1951
Harvey Canal, Bayou Barataria Levee, LA	1979	1,018,005	--	--
Morgan City and Vicinity, LA	1992	1,975,628	--	--

- In addition, the following was expended from contributed funds:
 Amite River and tributaries \$ 430
 Harvey Canal, Bayou Barataria Levee, LA 425,209
- Authorized by Chief of Engineers (Sec. 205, 1948 Flood Control Act, as amended)

TABLE 11-E DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report for	Date and Authority	Federal Funds Expended	Contributed Funds Expended
Baton Rouge Harbor Segment Between Mi 2.5 and 5.0	1946	Nov. 2, 1979 Section 12, Public Law 93-251 (WRDA 74)	--	--
Bayou Grosse Tete, LA	1969	May 6, 1981 DAEN-CWP-A Letter Subj: Completed Action on 5th Deauthorization Rpt, dated Jun. 17, 1981	--	--
Lake Borgne and Chef Menteur Bulkheads and Jetties	1942	Nov 1979	--	--
Vinton Waterway, LA	1950	Nov. 2, 1979 Section 12, Public Law 93-251 (WRDA of 1974)	--	--

NEW ORLEANS, LA, DISTRICT

TABLE 11-F

**FLOOD CONTROL WORK
UNDER SPECIAL AUTHORIZATION**

**Flood control activities pursuant to Section 205, P.L. 858
80th Congress, as amended (preauthorization)**

Project	FISCAL YEAR COST		
	Federal	Non-Federal	Total
Section 205 Coordination	0	0	0
Bayou Choupique, LA	3,158	0	3,158
Coushatta Indian Reservation, Vermilion	61	0	61
Town of Carencro	18,861	9,427	197,288
Jean Lafitte, LA	3,046,742	2,495,192	5,541,934
Lockport to Larose, LA	0	9,933	9,933
Paillet Basin, Jeff Parish, LA	905	65	966
Total Section 205	3,238,727	2,614,613	5,753,340

**Emergency StreamBank & Shoreline Protection
(Section 14 of 1946 Flood Control Act, P.L. 526)
(Section 27 of the 1974 Water Resources Development Act)**

Project	FISCAL YEAR COST		
	Federal	Non-Federal	Total
Hwy 77, Bayou Plaquemine	1,276	0	1,276
Southern University Campus Rd	36,298	0	36,298
Tucker Rd Comite River	12,328	0	12,328
Total Section 14	49,902	0	49,902

**Clearing and Snagging For Flood Control
(Section 208, 1954 Flood Control, as amended)**

Project	FISCAL YEAR COST		
	Federal	Non-Federal	Total
Section 208 Coordination	2,249	0	2,249
Snagging & Clearing Upper Bayou Boeuf	264	0	264
Total	2,513	0	2,513

**Shoreline Protection of Publicly Owned Property
(Section 103 River and Harbor Act of 1962, PL 87-874, as amended)**

Project	FISCAL YEAR COST		
	Federal	Non-Federal	Total
Bayou Teche Shoreline Protection	3,122	0	3,122
Section 103 Coordination	36,061	0	36,061
Total	39,183	0	39,183

TABLE 11-G

**ENVIRONMENTAL WORK
UNDER SPECIAL AUTHORIZATION**

**Wetland/Other Aquatic Habitat Creation
(Section 204, Public Law 102-560)**

Project	FISCAL YEAR COST		
	Federal	Non-Federal	Total
Atchafalaya River	9,158	0	9,158
Calcasieu River Mi 5.0-14.0	6,382	0	6,382
Sec 104 Coordination	5,000	0	5,000
Total Section 204	20,540	0	20,540

**Aquatic Ecosystem Restoration
(Section 206, Public Law 102-560)**

Project	FISCAL YEAR COST		
	Federal	Non-Federal	Total
University Lakes Baton Rouge	232,453	0	232,453
Total Section 206	232,453	0	232,453

**Project modifications to improve environment
(Section 1135, Public Law 99-662)**

Project	Fiscal Year Cost		
	Federal	Non-Federal	Total
Gulf Intercoastal Waterway, Plaquemines Lock, LA	-1,331	0	-1,331
Ecosystem Restoration, LA	6,247	0	6,247
Total Section 1135	4,916	0	4,916

NAVIGATION WORK UNDER SPECIAL AUTHORIZATION

**Navigation
(Section 107, River and Harbor Act of 1960, as amended)**

Project	Fiscal Year Cost		
	Federal	Non-Federal	Total
Sec 107 Coordination	0	0	0
Short Cut Canal	0	0	0
Port Fourchon Extension	8,665	0	8,665
Total	8,665	0	8,665

NEW ORLEANS, LA, DISTRICT

**TABLE 11-H ACTIVE INVESTIGATIONS
(96×3121)**

Item and CWIS Number	FY 07 Costs		Total
	Federal	Non-Federal	
<u>SURVEYS (Category 100)</u>			
<u>Navigation (110)</u>			
Atchafalaya River and Bayous Chene, Boeuf, and Black, LA was transferred to MVK	10,952	18,913	29,865
Calcasieu River and Pass Navigation, LA	30,450	0	30,450
Calcasieu Lock, LA	298,275	0	298,275
Port of Iberia, LA	-9795	39,185	29,390
Subtotal	\$329,882	\$58,098	\$397,980
<u>Flood Damage Prevention Studies (120)</u>			
Calcasieu River Basin, LA	175,064	62,234	237,298
Lafayette Parish, LA	0	8,188	8,188
West Shore, Lake Pontchartrain	140,173	208,482	348,655
LA Coastal Protection & Restoration, LA (LACPR)	1,491,193	0	1,491,193
Amite River and Tributaries, Bayou Manchac	240,266	0	240,266
St. Charles Parish Urban Flood Control, LA	7,315	0	7,315
Plaquemines Parish Urban Flood Control, LA	69,399	61,698	131,097
St. Bernard Parish Urban Flood Control, LA	2,624	0	2,624
Subtotal	\$2,126,034	\$340,602	\$2,466,636
<u>Ecosystem Restoration Studies (144)</u>			
Amite River & Tributaries, Ecosystem Restoration, LA	133,609	0	133,609
LCA Ecosystem Restoration	1,188,171	350	1,188,521
LCA Ecosystem Restoration – Science Program	645,028	0	645,028
Subtotal	\$1,966,808	\$350	\$1,967,158
<u>Special Studies (140)</u>			
West Baton Rouge Parish, LA	0	0	0
Subtotal	\$0	0	\$0
<u>Miscellaneous Activities (170)</u>			
Interagency Water Resources Development	6,058	0	6,058
Special Investigations	8,000	0	8,000
Gulf of Mexico Program	125,821	0	125,821
National Estuary Program	402	0	402
North American Waterfowl Management Plan	313	0	313
Subtotal	\$140,594	0	\$140,594

**TABLE 11-H ACTIVE INVESTIGATIONS
(Continued) (96×3121)**

Item and CWIS Number	FY 07 Costs		
	Federal	Non-Federal	Total
<u>Planning Assistance to States (186)</u>			
PAS-LA-Jefferson Parish Long Term Wastewater	39,600	207,372	246,972
PAS-LA-Lake Charles Master Plan	3,602	0	3,602
PAS-IT-Chitimacha Master Plan	2,024	0	2,024
PAS-LA-St. Charles West Bank Recreation	20	0	20
PAS-LA-St. Charles East Bank Recreation	388	3,157	3,545
PAS-LA-Plaquemines Parish GIS	-224	224	0
PAS-LA-Calcasieu Parish Data Mgmt	-7,339	7,339	0
PAS-LA-City of Donaldsonville	-410	410	0
PAS-LA-Opelousas Master Planning	-500	500	0
PAS-LA-city of EBR/Par of EBR, Dalrymple	-450	37,441	36,991
PAS-LA-DOT State Water Plan	-86	0	-86
PAS-LA-Gretna Levee Top Plan	-78	0	-78
PAS-LA-Washington Master Plan	-129	129	0
PAS-LA-EBR Value Engineering	-340	340	0
PAS-LA-New Orleans Riverfront – TPL	0	-3,819	-3,819
PAS-IT-Chitimacha Raintree Village	-5,817	5,817	0
PAS-LA-City of Lake Charles Riverfront	94,365	50,713	145,078
PAS-LA-Alexandria GIS	0	5,408	5,408
PAS-LA-Ascension Parish Riverfront	0	1,408	1,408
Subtotal	\$124,626	\$316,439	\$441,065
Total (Category 100)	\$4,687,944	\$715,489	\$5,403,433
<u>COLLECTION AND STUDY OF BASIC DATA (Category 200)</u>			
SS – East Baton Rouge Parish GIS	393	0	393
SS - Livingston Parish GIS	650,412	0	650,412
Flood Plain Management Services	19,119	0	19,119
SS-GIS, LA	26,498	0	26,498
FPM-Quick Responses	14,851	0	14,851
NFPC	5,971	0	5,971
Technical Services, General	53,131	0	53,131
Total (Category 200)	\$770,375	\$0	\$770,375

NEW ORLEANS, LA, DISTRICT

**TABLE 11-H
(Continued)**

**ACTIVE INVESTIGATIONS
(96×3121)**

Item and CWIS Number	FY 07 Costs		
	Federal	Non-Federal	Total
<u>Navigation</u>			
Bayou Sorrel Lock	2,779,546	0	2,779,546
Port of Iberia, LA	115,247	0	115,247
Total (Category 420)	\$2,894,793	\$0	\$2,894,793
<u>EMERGENCY SUPPLEMENTAL (706)</u>			
LA Coastal Area Ecosystem Restoration	220,696	0	220,696
Plaquemines Parish Urban Flood Control, LA	165,782	0	165,782
St. Charles Parish Urban Flood Control, LA	110,455	0	110,455
St. Bernard Parish, LA	0	0	0
LA Coastal Protection & Restoration, LA (LACPR)	6,974,731	0	6,974,731
Southwest Coastal LA Hurricane Protection	127,486	0	127,486
Mississippi River, Gulf Outlet, LA	2,183,450	0	2,183,450
Total (Category 706)	\$9,782,600	0	\$9,782,600
GRAND TOTAL INVESTIGATIONS	\$18,135,712	\$715,489	\$18,851,201

TABLE 11-I COASTAL WETLANDS PLANNING, PROTECTION, AND RESTORATION

Project Name	PPL	PPL Approved	Agency Assigned	Construction Started	Construction Completed
PROJECTS COMPLETED IN FY 07					
Freshwater Introduction South of Highway 82	9	1/11/00	FWS	9/1/05	12/13/06
Delta Management at Fort St Philip	10	1/10/01	FWS	6/19/06	12/14/06
Little Lake Shoreline Protection/Dedicated Dredging near Round Lake	11	1/16/02	NMFS	8/4/05	3/30/07
PROJECTS CONTINUED IN FY 07					
West Belle Pass Headland Restoration	2	10/19/92	COE	2/10/98	
Jonathan Davis Wetland Restoration	2	10/19/92	NRCS	6/22/98	
Barataria Basin Landbridge Shoreline Protection, Phase 1 and 2	7	1/16/98	NRCS	12/1/00	
Coastwide Nutria Control Program	11	1/16/02	NRCS	11/20/02	
North Lake Mechant Landbridge Restoration	10	1/10/01	FWS	4/1/03	
Barataria Basin Landbridge Shoreline Protection, Phase 3	9	1/11/00	NRCS	10/20/03	
Timbalier Island Dune and Marsh Restoration	9	1/11/00	EPA	6/1/04	
Freshwater Floating Marsh Creation Demonstration (DEMO)	12	1/16/03	NRCS	6/1/04	
East Sabine Lake Hydrologic Restoration	10	1/10/01	FWS	12/1/04	
Black Bayou Culverts Hydrologic Restoration	9	1/11/00	NRCS	5/25/05	
Raccoon Island Shoreline Protection/Marsh Creation, Ph 2	11	1/16/02	NRCS	12/13/05	
Barataria Barrier Island: Pelican Island and Pass La Mer to Chalant Pass	11	1/16/02	NMFS	3/25/06	
PROJECTS INITIATED IN FY07					
New Cut Dune and Marsh Restoration	9	1/11/00	EPA	10/1/06	
Sabine Refuge Marsh Creation, Cycle 3	8	1/20/99	COE	10/25/06	
West Lake Boudreaux Shoreline Protection and Marsh Creation	11	1/16/02	FWS	7/24/07	
Lake Borgne Shoreline Protection	10	1/10/01	EPA	8/1/07	
Terrebonne Bay Shore Protection Demonstration (DEMO)	10	1/10/01	FWS	8/25/07	

VICKSBURG, MS, DISTRICT

This district comprises western and central Mississippi, southern Arkansas, northern Louisiana, and a very small portion of southwestern Tennessee, embraced in drainage basins of eastern tributaries of Mississippi River south of Horn Lake Creek to and including Buffalo River; Pearl River Basin in Mississippi; independent tributaries of the Gulf of Mexico south of the Buffalo River Basin to the Mississippi-Louisiana state line; western tributaries of

Mississippi River between White and Atchafalaya Rivers including Arkansas River Basin below a point 3 miles upstream from Pine Bluff and Arkansas River below mile 36.1 near Pendleton, AR; Ouachita and Black Rivers in Arkansas and Louisiana; and Red River in Louisiana and Arkansas to the Texas-Arkansas state line. The Vicksburg District territory encompasses 68,000 square miles.

IMPROVEMENTS

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Navigation

1. J. BENNETT JOHNSTON WATERWAY, LA (FORMERLY RED RIVER WATERWAY PROJECT)

Location. From east-central to northwest Louisiana along the Red and Old Rivers between the Mississippi River and Shreveport, LA.

Existing project. Provides a navigation route from the Mississippi River at the junction with Old River via Old and Red Rivers to Shreveport, LA, developing a channel approximately 236 miles long, 9 feet deep, and 200 feet wide. The development includes five locks and dams, realignment, and contraction of the river as necessary to develop an efficient navigation channel. Facilities to provide recreation and fish and wildlife development are an integral part of the project.

Local cooperation. For details, see page 11-21, Annual Report, FY 80. The Red River Waterway Commission is the non-Federal sponsor. The Red River Waterway Commission, governing body of the Red River Waterway District, executed an act of assurance for all project features in Louisiana on Feb. 26, 1969, supported by resolution dated Jan. 30, 1969. The assurances were accepted for, and on behalf of, the United States on Apr. 15, 1969. The Commission furnished amended assurances covering the provisions of Public Laws 91-646 and 91-611 on May 23, 1973, for the portion of the project within Louisiana. These were accepted for, and on behalf of, the United States on Nov. 14, 1973. A Local Cooperation Agreement between the Department of the Army and the Red River Waterway Commission for the acquisition of mitigation lands in the vicinity of Loggy Bayou Wildlife Management Area was executed on Jun. 16, 1993, and a Project Cooperation Agreement (PCA) between the same agencies for the acquisition of mitigation lands in the vicinity of Bayou Bodcau was executed on July 17, 1996.

Terminal facilities. Local interests are to provide adequate terminal facilities along the waterway. Construction of the realignment and port fill is complete. Construction of the Alexandria, Shreveport—Bossier, Natchitoches Parish, and Red River Parish Ports is complete.

Operations and results during fiscal year. Construction was initiated in July 1973, and the project opened for navigation in 1995. The project is 94 percent complete and provides navigation for a six-barge tow (two abreast) as far upstream as Shreveport, LA. All five lock and dam facilities are complete and in

operation. During FY 07, one reinforcement and one drainage structure was completed. Initiated one reinforcement and one revetment to refine the reliability and safety in the navigation channel.

Maintenance dredging was performed along the waterway by the contract Dredge *Butcher* and Dredge *Little Rock* during FY 07; 750,482 cubic yards of material were removed from the navigation channel.

2. OUACHITA AND BLACK RIVERS BELOW CAMDEN, AR

Location. Ouachita River rises in Polk County, AR, and flows southeasterly and southerly about 600 miles. Below its confluence with the Tensas and Little Rivers at Jonesville, LA, it is called Black River, which enters Red River 34.5 miles from the Mississippi River.

Previous projects. See page 683 of Annual Report for 1962 for details.

Existing project. See page 684 of Annual Report for 1962 for details of the old 6.5-foot navigation project. Modified project and project for Red River below Fulton, AR, provide for a channel 9 feet deep and 100 feet wide in Red River between Old River and mouth of Black River, and in Black and Ouachita Rivers from mouth of Black River to Camden, AR. Authorized features for the modified project include four new locks and dams, in-river construction dredging to achieve a 9-foot navigation channel depth, and channel realignment. All 4 locks and dams are complete and in operation and initial channel dredging is complete providing 9-foot navigation depth. Remaining work consists of realignment of 25 restricted bendway sites between river miles 195 at Sterlington, LA, and river mile 335 at Camden, AR, on the Ouachita River. With these improvements in place the river system will be navigable by a four-barge tow (two abreast) to Crossett, AR, river mile 237, and a two-barge tow (abreast) to Camden, AR. Mitigation features include the 65,000-acre Felsenthal National Wildlife Refuge in Arkansas, the 18,000-acre D'Arbonne National Wildlife Refuge in Louisiana, a series of recreation facilities along the waterway, and improvements to Catahoula Lake to preserve it for migratory waterfowl.

Local cooperation. Local interests are required to furnish the construction rights-of-way for the realignment work. Seven of the 25 sites are within the Felsenthal National Wildlife Refuge and are already owned by the Federal Government. However, there have been no indications that the land for the remaining 18 sites will be forthcoming because of strong opposition to the

VICKSBURG, MS, DISTRICT

realignment work by local environmental groups. The six remaining recreation facilities are unscheduled at this time due to the lack of required cost sharing agreements.

Terminal facilities. Public loading docks are at Columbia, LA, and Camden and Crossett, AR. Privately owned docks and loading and unloading facilities are at Columbia, Monroe, and Sterlington, LA, and El Dorado, Calion, and Camden, AR. Two grain-handling facilities and a petroleum-loading facility are in the vicinity of Jonesville, LA, a grain-handling facility is in the vicinity of Acme, LA, and a petroleum-loading facility is in the vicinity of Smackover, AR.

Operations and results during fiscal year. The project is 92 percent complete and provides limited navigation as far north as Camden, AR. All four locks and dams associated with the project are complete and in operation. Design and construction of the remaining features are on hold pending a consensus between the States of Arkansas and Louisiana concerning the type of development desired or the additional studies needed to reach a decision. In FY 07, maintenance dredging was performed from Camden, AR, to the mouth of the Black River by the contract Dredge *Butcher*, removing 831,322 cubic yards of material from the navigation channel.

3. RED RIVER EMERGENCY BANK PROTECTION

Location. In northwest Louisiana, southwest Arkansas, and northeast Texas, along the Red and Old Rivers between the Mississippi River and the head of the levee system above Index, AR.

Existing project. Provides for realigning the banks by means of cutoffs and training works and for stabilizing banks by means of revetments, dikes, and other methods as emergency conditions may require in advance of developing the design for the entire Red River Waterway project.

Local cooperation. Fully complied with. For details see pages 11-19 to 11-20, Annual Report FY 80.

Operations and results during fiscal year. Construction was completed on one revetment item.

4. NAVIGATION WORK UNDER SPECIAL AUTHORIZATION

Navigation activities pursuant to Sec. 107, Public Law 87-645, as amended.

In FY 07, \$0 was expended on Section 107 Coordination Accounts; \$815,787 on Yazoo Diversion Canal, MS.

Flood Control

5. OUACHITA RIVER LEVEES, LA

Location. East bank of Ouachita River between Bastrop, LA, and Sandy Bayou. Loop levees on the west bank at West Monroe, Columbia, and Bawcomville.

Existing project. There are 105.8 miles of levee on the east bank and 11.6 miles of levee in the three loops on the west bank. A Summary Report authorized gravel surfacing 117.4 miles of levee, and enlarging 36.6 miles of levee. Estimated Federal cost is \$30,198,000. Estimated non-Federal cost is \$4,945,000.

Local cooperation. Requirements and assurances of local cooperation are fully described on page 12-6 of FY 1980 Annual Report.

The 1991 Water and Energy Appropriations Act gave the Federal government responsibility for the repair and/or replacement of the deteriorated drainage structures. The Assurances Agreement for Local Cooperation was supplemented to reflect this change in responsibility. The supplemental agreement covered work performed since Fiscal Year 1992 with follow on agreements for additional levee work.

Operations and results during fiscal year. Item 2 was awarded on 2 December 2003 and designated complete 3 Oct. 2006. A contract for Phase I gravel surfacing from Monroe to Sandy Bayou was awarded 29 Aug 2006 and designated complete 10 Oct. 2006

6. RED RIVER BELOW DENISON DAM, AR, LA, TX (VICKSBURG DISTRICT)

Location. On Red River and its tributaries below Denison Dam, in Oklahoma, Arkansas, Texas, and Louisiana. (Refer to Geological Survey State maps and folio "Maps of Red River" - 1958 edition.) Along the main stem of the Red River from the head of the levee system immediately above Index, AR, through the southwest corner of Arkansas to the vicinity of Boyce, LA, on the right bank, and Pineville, LA, on the left bank.

Existing project. Raising and strengthening existing and authorized Red River levees to provide protection against flooding and bank protection works at

locations where levee setbacks are impossible or uneconomical. The plan consists of raising and strengthening existing and authorized Red River levees to provide against a flood approximately 20 percent greater than the flood of 1945, the flood of record, as modified by authorized reservoirs. Bank protection works are to be constructed at locations where levee setbacks are impossible or uneconomical.

Local cooperation. Requirements of local cooperation are fully described on page 12-10 of FY 1984 Annual Report.

Operations and results during fiscal year. Construction was initiated in February 1948, and the levee and bank stabilization are complete with the exception of levee rehabilitation within the State of Arkansas and gravel surfacing on the levees in Louisiana. Gravel surfacing on the east bank was completed in the vicinity of Natchitoches, Louisiana.

7. INSPECTION OF COMPLETED FLOOD CONTROL PROJECTS

Inspection of completed work was accomplished at a cost of \$439,852 for the fiscal year. Total cost as of Sep. 30, 2007, is \$7,903,625.

8. FLOOD CONTROL WORK UNDER SPECIAL AUTHORIZATION

Emergency flood control activities—repair, flood fighting, and rescue work. (Public Law 99, 84th Cong., and antecedent legislation.)

FY 07 Federal costs for the period were \$528,126 for disaster preparedness, emergency operations and operational support and \$7,268,000 reimbursable due to Hurricane Katrina response efforts.

Snagging and clearing of navigable streams and tributaries in the interest of flood control (Sec. 208 of 1954 Flood Control Act, Public Law 780, 83rd Cong.)

In FY 07, \$0 was expended on Section 208 coordination account.

Emergency bank protection (Sec. 14 of 1956 Flood Control Act, Public Law 780, 83rd Cong.)

In FY 07, \$9,982 was expended on Section 14 coordination account; \$175,767 on Eubanks Creek, Jackson, MS; \$51 on Dillon's Bridge, Bogue Chitto River, MS; \$345,354 on Bayou Macon, Poverty Point, LA; and \$17,934 on Tallahatchie River, Site 3, Tallahatchie County, MS, \$40,000 on Ouachita River, city of Monroe, LA; and \$9,554 on Hwy 237, Sulphur River, Miller County, AR.

Flood control activities pursuant to Sec. 205, Public Law 858, 80th Cong., as amended (preauthorization).

In FY 07, \$14,926 was expended on Section 205 coordination account; \$96,879 on Red Chute Bayou levee, LA; \$85,486 on McKinney Bayou, Tunica County, MS; and \$23 on Patterson Bayou, Blue Cane, Tallahatchie County, MS.

Environmental

9. MISSISSIPPI ENVIRONMENTAL SECTION 592

Location: The Mississippi (Section 592) project provides environmental infrastructure assistance to communities throughout the State of Mississippi.

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

Local cooperation. Local sponsors are reimbursed 75 percent of their costs.

Operations and results during fiscal year. Five projects have been completed, one terminated, 15 are ongoing and coordination is ongoing with six additional communities. No new Project Partnership Agreements (PPA) (previously Project Cooperation Agreements) will be executed until sufficient funding is received.

VICKSBURG, MS, DISTRICT

**10. PEARL RIVER WALKIAH BLUFF,
MS AND LA**

Location. The Lower Pearl River Basin lies within the States of Mississippi and Louisiana with the Pearl River forming part of the boundary between the two states. The Basin extends from near Bogalusa, LA, to the mouth--a linear distance of approximately 45 miles. The Pearl and West Pearl Rivers are distinct river systems connected by numerous sloughs, bayous, and distributaries.

Existing project. The project consists of a rock weir in the old bendway of the Pearl River above the inlet of Wilson Slough to provide a 50/50 low-flow distribution between that bendway and the Pearl River and other improvements. The primary purpose of this project was to restore low flows in an 18-mile reach of the Pearl River and Holmes Bayou, thus providing a net gain in the wetland resource value. Prior to this project, essentially all flows in the Pearl River eventually entered the West Pearl River during low-flow periods. This reach extends along the Pearl River from near the head of Wilson Slough, down the Pearl River and Holmes Bayou, to the confluence of Holmes Bayou and the West Pearl River. The project was designed to restore low flows in the Pearl River system to the nearly equal distribution that existed between the Pearl River and Wilson Slough in the late 1970s. The last construction on the project was accomplished in December 1999. In October 2001, approximately 30 percent of the low flows were going down the Pearl River (as opposed to 5 to 10 percent prior to the project).

Operations and results during fiscal year. The rock weir portion of the project was damaged by high flows and was further damaged by Hurricane Katrina to the extent that the percentage of low flows going down the Pearl River dropped to approximately 20 percent. Repairs were needed to ensure the project continues to develop as originally planned. The needed repair work was funded in PL 109-148 (FY 2006 Supplemental

Appropriations). Funds of \$56,059 were expended in FY 07 to complete repairs initiated in FY 06.

**11. ECOSYSTEM RESTORATION WORK
UNDER SPECIAL AUTHORIZATION**

Project modifications for improvement of environment pursuant to Sec. 1135, Public Law 99-662, as amended (preauthorization).

In FY 07, \$4,978 was expended on Section 1135 coordination account; \$56,321 on Sulphur River, LA; \$165,347 on Frazier/Whitehorse Oxbow, LA; \$4,380 on Bayou Macon, LA; \$9,627 on Cannon Brake/Lower Vallier, AR; \$3,801 on Bayou DeSiard, Monroe, LA; \$362 on Bayou Macon, Lake Village, AR; and \$81,703 on Lake St. Joseph, Tensas Parish, LA.

Aquatic Restoration pursuant to Section 206, P.L. 104-303.

In FY 07, \$0 was expended on Section 206 coordination account.

Miscellaneous

**12. CATASTROPHIC DISASTER PREPARED-
NESS PROGRAM**

During FY 07, \$12,534 was expended on continuity of Government, \$0 on EOC Support and Facilities, \$28,838 on Catastrophic Disaster Preparedness, and \$137,355 Anti-Terrorism/Force Protection. Total costs for FY 07 were \$178,727.

13. GENERAL REGULATORY PROGRAM

During FY 07, \$2,446,570 was expended on Permit Evaluation; \$217,051 on Enforcement; \$303,254 on Compliance-Authorized Activities & Mitigation; and \$0 on appeals. A total of \$2,966,875 was expended in FY 07.

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2007

TABLE 12-A COST AND FINANCIAL STATEMENT

See Section in Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Funds to Sep. 30, 2007
1.	J. Bennett Johnson Waterway, LA (formerly Red River Waterway Mississippi River to Shreveport, LA)	New Work					
		Approp.	11,105,000	8,541,800	12,870,000	1,600,000	1,803,972,000
		Cost	10,632,000	8,267,986	7,531,712	7,002,320	1,803,231,000
	Ouachita and Black Rivers below Camden, AR (6.5-foot navigation project)	Maint.					
		Approp.	11,019,357		11,309,000	10,936,000	150,988,101
		Cost	10,819,268		8,404,925	12,628,599	147,821,386
2.	Ouachita and Black Rivers below Camden, AR (9-foot navigation project)	New Work					
		Approp.					230,759,251 ²
		Cost					230,223,172 ²
		Maint.					
		Approp.				9,852,000	185,049,421
		Cost				10,956,919	184,651,913
3.	Red River Emergency Bank Protection	New Work					
		Approp.	296,000		3,543,000	120,000	136,454,441
		Cost	307,000		198,888	3,119,730	136,109,067
	(Contrib. Funds)	New Work					
		Contrib.					6,825
		Cost					6,825
		Cost	10,632,000	8,267,986	7,531,712	7,002,320	1,803,231,000
		Maint.					
		Approp.	11,019,357		11,309,000	10,936,000	150,988,101
		Cost	10,819,268		8,404,925	12,628,599	147,821,386
	(Contrib. Funds)	New Work					
		Contrib.					4,916,659
		Cost					4,879,967

VICKSBURG, MS, DISTRICT

**TABLE 12-A COST AND FINANCIAL STATEMENT
(Continued)**

See Section In Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Funds To Sep. 30, 2007
5.	Ouachita River Levees, LA	New Work					
		Approp.	53,000	0		742,000	27,438,000
		Cost	97,289	1,825,791	0	160,000	26,634,286
6.	Red River below Denison Dam, AR, LA, TX (Vicksburg District)	New Work					
		Approp.	1,520,000	43,000	2,595,000	180,000	85,355,000
		Cost	1,360,000	42,978	133,781	2,343,048	85,057,000
9.	Mississippi Environmental Section 592	New Work					
		Approp.	1,159,500	1,903,000	11,777,013	24,750,000	41,710,513
		Cost	673,000	2,178,857	11,785,837	20,943,418	40,234,694
10.	Pearl River Walkiah Bluff	New Work					
		Approp.	15,000	0		1,000,000	8,619,000 ³
		Cost	23,310	0		917,694	8,536,350
		Maint.					
		Approp.					2,760,900
		Cost					2,667,808
	(Contrib. Funds)	New Work					
		Approp.					2,050,054
		Cost					2,020,788

1. Includes \$674,068 for new work on previous projects.
2. Includes \$3,312,000 PL 98-8 Jobs Bill. Excludes \$47,854,000 previously allocated to New Orleans District.
3. Includes \$1,000,000 supplemental funds (PL109-148).

TABLE 12-B AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
May 17, 1950	<p>OUACHITA AND BLACK RIVERS BELOW CAMDEN, AR (See Section 1 of Text) Modification of existing project to provide for 9-foot channel and deepening canal to Felsenthal, AR.</p>	<p>S. Doc. 117, 81st Cong., 1st sess.</p>
Jul. 14, 1960	<p>Modification of 9-foot project to provide four new locks and dams and channel improvements.</p>	<p>S. Doc. 112, 86th Cong., 2d sess.</p>
Dec. 31, 1970	<p>Migratory waterfowl refuges on Bayou D'Arbonne in connection with the pool of the Columbia Lock and Dam and in the pool of the Felsenthal Lock and Dam.</p>	<p>Report of the Chief of Engineers dated Nov. 25, 1970, and H. Doc. 92-109, 92d Cong., 1st sess.</p>
Aug. 13, 1968	<p>RED RIVER EMERGENCY BANK PROTECTION (See Section 2 of Text). Realigning the banks by dredging cut-offs and training works and stabilizing banks by means of revetments and dikes.</p>	<p>H. Doc. 304, 90th Cong., 2d sess.</p>
Aug. 18, 1941	<p>ALOHA-RIGOLETTE AREA, LA (See Section 5 of Text) Original authorization incorporated into RRBW Protection FCA 1946 project modified to provide Bayou Darrow outlet.</p>	<p>Public Law 101- 101 Cong., 2nd sess.</p>
Oct. 27, 1965	<p>BAYOU BODCAU AND TRIBUTARIES, AR AND LA Extend Cypress Bayou-Red Chute Bayou levee, construct stream closure landside drainage channel and three culverts on Red Chute Bayou and clearing and snagging channel; extend Flat River-Loggy Bayou levee, close Flat River near junction with Cutoff Bayou, and construct control structures on Flat River near junction with Red Chute Bayou; and enlarge Flat River channel to 20 to 35 feet, a distance of 11.6 miles.</p>	<p>H. Doc. 203, 89th Cong., 1st sess.</p>
Jun. 30, 1948	<p>CANAL 43, AR Channel enlargement</p>	<p>Sec. 205 of the Flood Control Act of 1948, as amended Authorized by Chief of Engineers, October 31, 1988.</p>
Nov. 17, 1986	<p>CANEY CREEK, MS Authorizes construction of such bank stabilization measures for Caney Creek in the vicinity of Jackson, MS, between McDowell Road and Raymond Road as the Secretary determines necessary for flood damage prevention and erosion control along approximately 3,000 feet of the creek.</p>	<p>Public Law 99-662, 99th Cong., 2d sess.</p>

VICKSBURG, MS, DISTRICT

**TABLE 12-B
(Continued)**

AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
Water Resources Development Act of 1996	<p>NATCHEZ BLUFFS, MS Authorizes bluff stabilization in accordance with the Natchez Bluff study at a total cost of \$17,200,000, estimated federal cost of \$12,900,000 and non federal cost of \$4,300,000.</p>	Public Law 104-303
Jun. 30, 1948, as amended	<p>CHAUVIN BAYOU, LA Construction of a 250-cfs pumping plant located adjacent to Chauvin Bayou at the Ouachita River levee and a water control structure in Canal L-11.</p>	Sec. 205 of the Flood Control Act of 1948, as amended. Authorized by the Chief of Engineers Feb. 6, 1990.
Jun. 30, 1948, as amended	<p>LEAD BAYOU, MS Channel enlargement.</p>	Sec. 205 of the Flood Control Act of 1948, as amended. Authorized by Chief of Engineers Jun. 10, 1980.
Jul. 29, 1983	<p>MCKINNEY BAYOU, AR AND TX (See Section 6 of text) Authorizes a comprehensive study and recommendations for development and efficient utilization of water and related resources for the McKinney Bayou area, a tributary of Red River.</p>	Public Law 98-63 98th Cong., 1st sess.
Nov. 17, 1986	<p>MONROE AND WEST MONROE, LA, AND OUACHITA PARISH, LA Authorizes such structural and nonstructural measures as the Secretary deems feasible to prevent flood damage to the cities of Monroe and West Monroe, LA, and Ouachita Parish, LA.</p>	Public Law 99-662, 99th Cong., 2d sess.
May 17, 1950	<p>OUACHITA RIVER AND TRIBUTARIES, AR AND LA Authorized DeGray Lake; Murfreesboro Lake; extension of floodwall at Monroe to partially close the existing gap; local protection at Bawcomville, LA (subsequently constructed under Sec. 6, Act of May 15, 1928, with local interests contributing one third of cost); Bayou Bartholomew channel improvement, including Deep Bayou and Overflow Creek; Pine Bluff local protection; local protection at Calion, AR; and incorporation, into the Ouachita River and Tributaries project, of all existing projects and portions thereof in the basin above the lower end of the levees on the east bank of the Ouachita River. In addition, the Chief of Engineers authorized on Nov. 14, 1966, additional work on the levees.</p>	S. Doc. 117, 81st Cong., 1st sess.

VICKSBURG, MS, DISTRICT

**TABLE 12-B
(Continued)**

AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
Nov. 17, 1986	Water Resources Development Act of 1986 authorized for construction the project for mitigation of wildlife losses, Red River Waterway, LA, which may include all or such portion of any land adjacent to the Loggy Bayou Wildlife Management Area.	Public Law 99-662, 99th Cong., 2d sess.
Nov. 17, 1988	Water Resources Development Act of 1988 modified the mitigation project to authorize the Secretary to acquire up to 300 acres in the area of Stumpy Lake.	Public Law 100-676 100th Cong., 2d sess.
Sep. 7, 1989	Provide for acquisition of up to 5,000 acres of land in the vicinity of Stumpy Lake/Swan Lake/Loggy Bayou Wildlife Management Area at a cost not to exceed \$2.5 million. Also increased L&A Railroad Bridge ceiling to \$25.8 million.	Public Law 101-101 101st Cong., 2d sess
Nov. 28, 1990	Water Resources Development Act of 1990 modified the mitigation project to authorize the Secretary to acquire an additional 12,000 acres adjacent to or close to the Bayou Bodcau Wildlife Management Area.	Public Law 101-640, 101st Cong., 2d sess.
Dec. 18, 1991	Lock and Dam 1 designated as Lindy Claiborne Boggs Lock and Dam	Public Law 102-240 102nd Cong.
Oct. 31, 1992	Lock and Dam 5 designated as Joe D. Waggoner, Jr. Lock and Dam	Public Law 102-580 102nd Cong
Water Resources Development Act of 1996	WRDA 96 modified the mitigation project to authorize the Secretary to acquire lands adjacent to Loggy Bayou Wildlife Management Area in Caddo and Red River Parishes and increasing the authorized cost to \$10,500,000.	Section 301, Public Law 104-303
Water Resources Development Act of 1996	WRDA 96 modified the project to include dredging of the entrance to the Oxbow Lakes designated for preservation in project documentation and stated that the cost sharing for this dredging should be the same as the general navigation features.	Section 301, Public Law 104-303
Water Resources Development Act of 2000	WRDA 2000 modified the mitigation project to authorize the acquisition of lands in any of the parishes that comprise the Red River Waterway District, consisting of Avoyelles, Bossier, Caddo, Grant, Natchitoches, Rapides, and Red River Parishes.	
Jul. 24, 1946	RED RIVER BELOW DENISON DAM LEVEES AND BANK STABILIZATION (VICKSBURG DIST.) (See Section 10 of Text) Levee and bank stabilization.	H. Doc. 602, 79th Cong., 2d sess.

TABLE 12-C

OUACHITA AND BLACK RIVERS, AR AND LA
(9-FOOT PROJECT), LOCKS AND DAMS
(See Section 2 of Text)

Location	Miles from Nearest Town	Miles Above Mouth of Black River	Width of Lock Chamber (feet)	Greatest Available Length for Full Width of Lock Chamber (feet)	Max. Lift at Low Water (feet)	Elev. Normal Pool Surface (feet msl)	Min. Depth on Lower Miter Still at Normal Pool Level (feet)	Character or Foundation	Kind of Dam	Type of Construction	Per-cent Complete	Total Estimated Project Cost
Jonesville, LA	10	25	84	600	30	34	14	Piling	Moving	Tainter gated dam; bascule gated navigation pass; steel mitering lock gates	100 ²	\$ 43,585,000
Columbia, LA	5	117	84	600	18	52	13	do	do	Tainter gated dam; Fixed crest navigation pass; steel mitering lock gates	95 ²	46,235,000
Felsenthal, AR	1	227	84	600	18	70 ¹	13	Earth	do	Tainter gated dam; hinged crest gated navigation pass; steel mitering lock gates.	88 ²	102,161,000
Calion, AR (H. K. Thatcher)	7	283	84	600	12	77	13	do	do	Tainter gated dam; hinged crest gated navigation pass; steel mitering lock gates.	88 ²	71,019,000
Estimated Federal Cost												\$263,000,000
Estimated Non-Federal Cost												18,009,000
Total Estimated Cost												281,009,000

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VICKSBURG, MS, DISTRICT

1. Fish and wildlife impoundment level. Navigation pool elevation 65.
2. The percent complete reflects all work within the pool.

TABLE 12-D

**J. BENNETT JOHNSTON WATERWAY, LA
(9-FOOT PROJECT), LOCKS AND DAMS
(See Section 1 of Text)**

Location	Miles from Nearest Town	Miles Above Mouth of Black River	Width of Lock Chamber (feet)	Greatest Available Length for Full Width of Lock Chamber (feet)	Max. Lift at Low Water (feet)	Elev. Normal Pool Surface (feet msl)	Min. Depth on Lower Miter Still at Normal Pool Level (feet)	Character or Foundation	Kind of Dam	Type of Construction	Percent Complete	Total Estimated Project Cost
Lindy C. Boggs Lock & Dam #1	31	44	84	705	36	40	13	Piling	Moving	Tainter gated dam; Fixed crest spillway Steel mitering lock gates		
John H. Overton Lock & Dam #2	18	74	84	705	24	64	14	Piling	Moving	Tainter gated dam; Fixed crest spillway Steel mitering lock gates		
Lock & Dam #3	1	116	84	705	31	95	18	Earth	Moving	Tainter gated dam; Fixed crest spillway Steel mitering lock gates		
Russell B. Long Lock & Dam #4	7	168	84	705	25	120	18	Earth	Moving	Tainter gated dam; Hinged crest gate Steel mitering lock gates		
Joe D. Waggoner, Jr. Lock & Dam #5	7	200	84	705	25	145	18	Earth	Moving	Tainter gated dam; Hinged crest gate Steel mitering lock gates		
											93%	\$1,923,975,000
												<u>103,632,000</u>
												\$2,027,607,000

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VICKSBURG, MS, DISTRICT

TABLE 12-E OTHER AUTHORIZED NAVIGATION PROJECTS

Project	Status	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
			Construction	Operation and Maintenance	
Bayou Bartholomew, LA and AR ^{1,2,3,4}	--	1931	\$ 45,874	\$ 42,857	1
Bayous D'Arbonne and Corney, LA ^{1,2,4}	--	1941	19,000	37,804	1
Big Black River, MS ^{1,4,5}	--	1895	15,000	--	1
Boeuf River, LA ^{1,3,4,7,8,9}	--	1949	30,000	103,737	1
Claiborne County Port, MS	--	1985	2,000,000	848,286	Dec. 1983
Cypress Bayou and Waterway between Jefferson, TX, and Shreveport, LA ¹⁵	Complete	1971	202,817	452,611	Dec. 1914
Homochitto River, MS ⁴	--	1910	15,482	8,518	1
Lake Providence Harbor, LA	--	1985	208,537	3,460,119	Nov. 1963
Little Missouri River, AR ^{1,4,5}	--	1873	19,992	--	Dec. 1956
Little River, LA ^{1,4,5,10}	--	1890	1,500	--	1
Little Tallahatchie River, MS ^{1,7}	--	1913	19,000	--	1
Madison Parish Port, LA	--	1985	656,000	1,521,735	Dec. 1980
Mouth of Yazoo River, MS ^{1,7,11}	--	1953	1,179,211	11,492,114	1
Ouachita and Black Rivers, AR and LA, Felsenthal Canal	--	1937 ¹²	--	4,387,192	1
Overton-Red River Waterway, LA	--	1985	--	--	1
Pearl River, MS	--	1985	8,562,908	4,402,271	1956
Red River below Fulton, AR ^{1,16,17,18}	--	1978	1,963,806	2,147,890	1
Red River Waterway LA, AR, OK, and TX ^{1,17,18}	--	1969	1,752,402	--	1
Red River Waterway, Shreveport, LA to Daingerfield, TX ¹	--	1976	150,800	--	1
Removing snags and wrecks from Mississippi River below mouth of Missouri River and from Old and Atchafalaya Rivers ¹¹	--	1948	--	272,500	1
Rosedale Harbor, MS	--	1985	2,000,000	8,750,587	Sep. 1978
Saline River, AR ^{1,3,4,5}	--	1931	26,900	12,792	1
Tallahatchie and Coldwater Rivers, MS ^{1,4,5}	--	1939	43,481	173,066	1
Tensas River and Bayou Macon, LA ^{1,8,13}	--	1949	38,367	85,352	1
Yalobusha River, MS ^{1,4,5,14}	--	1937	7,000	15,936	1

**TABLE 12-E OTHER AUTHORIZED NAVIGATION PROJECTS
(Continued)**

Project	Status	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
			Construction	Operation and Maintenance	
Yazoo River, MS	--	1987	9,341,826	1,342,492	¹
Yellow Bend Port, AR	Complete	1991	3,793,069	1,563,391	Aug. 1991

1. Status and Date unavailable.
2. Abandonment recommended in H. Doc. 1962, 64th Cong., 2d sess., and H. Doc. 467, 69th Cong., 1st sess.
3. Channels adequate for existing commerce.
4. Inactive project. No commerce.
5. Abandonment recommended in H. Doc. 467, 69th Cong., 1st sess.
6. Project curtailment recommended by elimination of work between Pentecost and mouth of Hushpuckena River. (Abandonment of entire project erroneously recommended in H. Doc. 467, 69th Cong., 1st sess.)
7. See report of Mississippi River Commission for operations in connection with Yazoo Basin.
8. Report of New Orleans District, pp. 919-920 for Fiscal Year 1949.
9. Project curtailment recommended by elimination of work above Girard, LA. (Abandonment of entire project recommended erroneously in H. Doc. 467, 69th Cong., 1st sess.)
10. Due to decline of traffic, local interests not sufficiently interested to provide rights-of-way and dumping privileges.
11. No additional funds available under this project. Work is being carried out under Flood Control, Mississippi River and Tributaries appropriation.
12. Year authorized.
13. Inactive. Channel adequate for commerce.
14. See report of Mississippi River Commission for operations in connection with Yazoo Basin flood control project including channel clearing and rectification and Grenada Lake on Yalobusha River.
15. Excludes \$50,000 contributed funds.
16. Includes \$1,553,878 for previous projects.
17. Incorporated in the project "Red River Waterway-Mississippi River to Shreveport, LA" Sept. 30, 1976.
18. Emergency bank protection on this project is reported separately as "Red River Emergency Bank Protection." Two reaches, "Red River Waterway-Mississippi River to Shreveport, LA" and "Red River Waterway-Shreveport, LA, Daingerfield, TX," are also reported separately.
19. Includes \$674,068 for new work on previous projects.

VICKSBURG, MS, DISTRICT

TABLE 12-F OTHER AUTHORIZED MULTIPURPOSE PROJECTS

Project	Status	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
			Construction	Operation and Maintenance	
Blakely Mt. Dam - Lake Ouachita, Ouachita River, AR		1985	34,023,108	138,486,867	Oct. 1955
DeGray Lake Caddo River, AR		1985	72,033,992	102,521,021	Dec. 1971
Narrows Dam-Lake Greeson, Little Missouri River, AR		1985	16,516,689	100,321,921	May 1950

VICKSBURG, MS, DISTRICT

**TABLE 12-G
(Continued)**

**OTHER AUTHORIZED FLOOD
CONTROL PROJECTS**

Project	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
		Construction	Operation and Maintenance	
Natchitoches Parish, LA ^{1,2}	1956	1,529,478	--	Aug. 1955
Ouachita River and Tribs, AR & LA	2005	5,422,172		Feb. 2001
Pearl River, Jackson-East Jackson, MS	1986	2,790,127	--	1987
Pearl River, Slidell, St. Tammany Parish, LA	2005	--	--	⁵
Pineville, Red River, LA ^{3,4}	1953	232,426	--	Dec. 1951
Porter Bayou, MS	1995	1,049,278	--	Sep. 1993
Posten Bayou, AR ⁸	1973	--	--	--
Poverty Point, LA	1986	250,000	--	Oct. 1985
Red River Parish, LA ^{1,3}	1939	149,435	--	³
Red River in vicinity of Shreveport, LA ¹	1953	3,908,000	--	Mar. 1953
Red River Waterway, Shreveport, LA to Index, LA ⁹	1994	855,497	--	--
Saline Point, LA ^{1,3}	1945	124,111	--	--
Twelvemile Bayou, LA ⁴	1966	335,433	--	May 1965
Wallace Lake, LA	1985	--	3,252,400	Dec. 1946
Calion, AR	1960	1,068,996	Aug 1959	
Columbia, LA	1941	204,740 ³		
Little Missouri River below Murfreesboro, AR	1957	354,802		1956
Ozan Creek, AR	1957	57,742		1956
Terre Noire Creek, AR	1948	123,700		1948
Pine Bluff, AR, local protection	1954	172,582 ³		1966

TABLE 12-G OTHER AUTHORIZED FLOOD CONTROL PROJECTS
(Continued)

Project	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
		Construction	Operation and Maintenance	
McKinney Bayou, AR ^{7,8}	--	1,617,781		3
West Agurs, LA	1976	0		2005

1. Authorized under project "Red River Below Denison Dam."
2. In addition, the following was expended from contributed funds:

Amite River and tributaries	\$ 430
Bayou Pierre in vicinity of Shreveport, LA	89,047
Choctaw Bayou and Tributaries, LA	170,799
Harvey Canal, Bayou Barataria Levee, LA	425,209
Maniece Bayou, AR	39,293
Natchitoches Parish, LA	250,000
3. Completion Date Unavailable.
4. Authorized by Chief of Engineers under authority of Sec. 205, Flood Control Act of 1948, as amended.
5. Construction not initiated.
6. Inactive.
7. Completed under provisions of Sec. 7 Flood Control Act of 1928, as amended by Sec. 9, Flood Control Act 1936, and included in 1939 Annual Report of President, Mississippi River Commission, p. 2214.
8. Posten Bayou Project, authorized by Senate and House Resolutions, Dec. 17 and 15, 1970, deleted the plan authorized by the Flood Control Act dated Aug. 3, 1955.
9. Excludes New Orleans District allocation and cost.

VICKSBURG, MS, DISTRICT

TABLE 12-H DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report For	Date And Authority	Federal Funds Expended	Contrib. Funds Exp
Bayou Bartholomew and Tributaries, AR and LA	1990	May 17, 1950 S. Doc. 117, 81st Cong., 1st sess.	974,000	--
Buffalo River, MS ¹	1940	Nov 1986	--	--
McKinney Bayou, Finn Bayou Segment, AR	1963 ²	Aug 1977	--	--
Murfreesboro Reservoir, Pike County	1951			
Overton-Red River Waterway Above Mile 31	1985	Jul 24, 1946 4/		
Black Bayou Reservoir, LA	1945	Jun 22, 1936 3/		

1. Deauthorized by Sec. 1002, Water Resources Development Act of 1986.
2. Date Authorized.
3. Incorporated into Red River Below Denison Dam, OK, AR, and LA..
4. Incorporated into J. Bennett Johnston Waterway, LA.

**TABLE 12-I ACTIVE INVESTIGATIONS
(96X3121)**

Item and CWIS Number	FY 07 COSTS		
	Federal	Non-Federal	Total
SURVEYS (Category 100)			
<u>Navigation Studies (110)</u>			
Red River Navigation Study, S.W. Ark. – 010436	161,262		161,262
Atchafalaya River Bayous – 013771	134,432	68,871	203,303
Subtotal	295,694	68,871	364,565
<u>Reconnaissance (121)</u>			
Bossier Parish, Louisiana – 081541	60,933		60,933
Subtotal	60,933		60,933
<u>Feasibility (122)</u>			
Pearl River Watershed – 012742	384,925	5,280	390,205
Subtotal	384,925	5,280	390,205
<u>Special Studies (140)</u>			
Cross Lake, LA Water Supply Improvement (142) – 081542	56,032		56,032
Subtotal	56,032		56,032
<u>Miscellaneous Activities (170)</u>			
Special Investigations (171) – 17250	11,448		11,448
Interagency Water Resources (173) - 14713	21,893		21,893
Subtotal	33,341		33,341
COORDINATION WITH OTHER AGENCIES AND NON-FEDERAL INTERAGENCIES (180)			
COOP With Other Water Agencies — 053907	2,008		2,008
PAS – Negotiation Funds – 014800	11,089		11,089
PAS – Ross Barnett Reservoir Emergency Action Plan – 124914	17,187	54,246	71,433
Subtotal	30,284	54,246	84,530
TOTAL (Category 100)	861,209	128,397	989,606
COLLECTION AND STUDY OF BASIC DATA (Category 200)			
<u>Flood Plain Management Services (250)</u>			
Flood Plain Management Services – 82030	112,649		112,649
Quick Response – 82045	4,918		4,918
Special Studies – Caldwell Parish - 132681	86,054		86,054
Technical Services – 82040	89,723		89,723
Subtotal	293,344		293,344
<u>Hydrologic Studies (260)</u>			
Hydrologic Studies (260) – 53820	0		0
Subtotal	0		0
TOTAL (Category 200)	294,344		294,344
GRAND TOTAL INVESTIGATIONS	\$1,154,553	\$128,397	\$1,282,950

MEMPHIS, TN, DISTRICT

This district comprises a portion of southeastern Missouri and southern Illinois, western portions of Kentucky and Tennessee, a small portion of northern Mississippi, and the northeastern portion of Arkansas; includes area embraced in drainage basins of eastern tributaries of the Mississippi River south of Ohio River Basin to Nonconnah and Horn Lake Creeks, inclusive, and those of western tributaries south of Castor River

diversion channel and Commerce, MO, including St. Francis River Basin and White River and tributaries below Peach Orchard Bluff, AR, on the right bank and below Augusta, AR, on the left bank; also includes left bank Mississippi River levee from vicinity of Memphis south to about mile 620, and right bank levees from Cape Girardeau, MO, to about mile 605.

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Environmental Infrastructure

1. DESOTO COUNTY, MS

Location. DeSoto County is located in north Mississippi, just south of Memphis, TN. The county's rapid growth demands expansion of existing sewer systems and the development of new systems into one unified county-wide system.

Existing project. Section 219 of WRDA 1992, as amended in Section 502 of WRDA 1999 and Section 108 of the Consolidated Appropriations Act, 2001; and Section 6006 of the Emergency Supplemental Appropriations Act for Defense, the Global War on Terror and Tsunami, 2005 authorized \$55,000,000 for the design and construction of a regional wastewater system in DeSoto County, Mississippi, and Section 123 of the Energy and Water Development Appropriations Act of 2006 amended project authorization so as to allow future work to be carried out primarily by the

Non-Federal sponsor with the 75% Federal share to be in the form of grants or reimbursements.

Local cooperation. DeSoto County Regional Utility Authority (DCRUA) is the local sponsor for the project. On 29 September 2006 a new PCA was executed for future work. Under the new PCA the sponsor assumes primary responsibility for all phases of work and the Corps' role is to provide general oversight. The Federal cost share is being provided to the sponsor on a cost reimbursable basis.

Operations during fiscal year. Contract adjustments were issued on the following projects completed under Corps oversight, and these projects have been transferred to DCRUA for OMR&R: Upper Camp Creek North Interceptor and Upper Camp Creek South Interceptor. Federal cost was \$1,944,804 for DeSoto County Wastewater Treatment, MS.

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2007

Other Activities

2. EMERGENCY RESPONSE ACTIVITIES

Emergency flood control activities, Public Law 99, 84th Cong.

During this period, Federal cost was \$ \$281,684 for disaster preparedness.

Catastrophic Disaster Preparedness Program

Local Preparedness	\$ 8,091
National Preparedness	57,482
National Emergency Facilities	1,213
Readiness Training & Exercise	
Task Force	<u>0</u>
Total	\$ 66,786

3. GENERAL REGULATORY PROGRAM

Permit Evaluation	\$ 1,513,794
Enforcement	180,607
Appeals	0
Compliance Authorized Activities & Mitigation	<u>28,568</u>
Total	\$ 1,722,969

4. INSPECTION OF COMPLETED WORKS

Completed projects were inspected at a cost of \$218,995 during this period. Total cost as of Sep. 30, 2007, was \$4,607,461. This included in-depth inspection of projects.

MEMPHIS, TN, DISTRICT

TABLE 13-A COST AND FINANCIAL STATEMENT

See Section in Text	Project	Funding	FY 05	FY 06	FY 07	Total Funds to Sep 30, 2007
1.	Desoto County, MS	New Work				
		Approp.	6,358,000	19,800,000	0	40,300,000
		Cost	6,377,711	9,046,347	1,944,804	29,546,347

MEMPHIS, TN, DISTRICT

TABLE 13-C OTHER AUTHORIZED NAVIGATION PROJECTS

Project	Status	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007	
			Construction	Operation and Maintenance
Caruthersville Habor, MO	Annual Dredging	1984	\$768,992	\$ 10,394,098
Helena Harbor, AR	Annual Dredging	1984	90,847	9,890,557
Elvis Stahr Harbor, KY	Annual Dredging	1984	149,827	10,414,012
New Madrid Harbor, MO ⁶		1984	196,373	--
Obion River, TN ^{1,3}	Complete	1911	28,716	--
Osceola Harbor, AR	Annual Dredging	1984	269,115	14,634,139
Removing snags and wrecks from Mississippi River below mouth of the Missouri River and Old and Atchafalaya River ^{4,5}	Complete	1948	--	--
White River, AR (below Newport)	Annual Dredging	1984	169,994	15,024,705
Wolf River Harbor, TN	Annual Dredging	1984	586,50	17,235,297
New Madrid County Harbor, MO	Annual Dredging	2000	824,267	3,936,549

1. No commerce.
2. Existing project is for maintenance only.
3. Recommended for abandonment in H. Doc. 467, 69th Cong., 1st session.
4. Completion date not available.
5. No funds available under this project. Work being carried on under "Appropriation, Flood Control, Mississippi River and Tributaries."
6. WRDA 92 (Section 102) modified authorization by directing the Secretary to assume responsibility for maintenance of New Madrid County Harbor constructed by non-Federal interest.

TABLE 13-E OTHER AUTHORIZED FLOOD CONTROL PROJECTS

Project	Status	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007	
			Construction	Operation and Maintenance
Big Creek Canal, Millington, TN	--	1977	\$ 70,363	\$ --
Bradford, TN	Complete	1984	95,061	--
Cottonwood Slough pumping plant, IL ¹	Complete	1964	147,000	--
Cypress Creek, McNairy City, TN	--	1998	10,883	--
Dails Creek, Holly Grove, AR	--	1996	462	--
Drinkwater Sewer, MO	Complete	1984	1,494,828	--
Dyersburg, TN ¹	Complete	1962	229,649 ²	--
Dyersburg, TN (SW)	Complete	1981	1,820,869	--
Fletcher Creek at Memphis, TN	Complete	1993	421,898	--
Grays Creek Canal Shelby Co., TN	Complete	1985	155,280	--
Hatchie River, Alcorn Co., MS	Complete	1987	85,200	--
Humboldt, TN	Complete	1989	1,141,407	--
Memphis, Wolf River, and Nonconnah Creek, TN	Complete	1960	11,141,199	--
Main Ditch #8	Complete	2002	1,971,7000	--
Loosahatchie Interceptor Sewer, Shelby	Complete	1998	394,000	--
Millington, TN	Complete	1996	830,898	--
Mounds and Mound City, Ohio River Basin, IL ³	Complete	1955	1,132,704	--
Nixon Creek, TN ¹	Complete	1952	62,821	--
Nonconnah Blvd. Nonconnah Creek, TN	Complete	1983	249,999	--
Nonconnah Creek, Interceptor Sewer, Memphis, TN	Complete	1987	259,000	--
Nonconnah Creek at Perkins Street, Memphis, TN	Complete	1993	830,781	--
N. Second St., Memphis, TN (Wolf River Bridge)	Complete	1983	249,999	--
N. Second St. at Wolf River, Memphis, TN	Complete	1991	367,012	--
Plainview Road Bridge, Chester County, TN	Complete	1991	124,954	--
Quince Road Bridge, Memphis, TN	Complete	1993	156,565	--
Raft Creek, AR	--	1997	245	--
Sandy Creek Jackson, TN	Complete	1985	238,000	--
St. Francis River Highway No. 90, AR	Complete	1985	161,000	--
Tar Creek, Chester County, TN	--	1997	1,161	--
Treasure Island, MO	Complete	1981	861,528	--
Turner Creek, Corinth, MS	Complete	1987	100,600	--
US Hwy 51, Nonconnah Creek, TN	Complete	1984	369,200	--
W. Hickman, Area, Hickman, KY	Complete	1983	1,674,180	--

1. Authorized by Chief of Engineers under small project authority, Sec. 205, Flood Control Act of 1948, as amended.
 2. Includes \$21,863 contributed funds.
 3. Work being completed under Mississippi River and Tributaries project.
 4. Exclusive of Cache River Pumping Station.

MEMPHIS, TN, DISTRICT

TABLE 13-G

DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		
		Date Deauthorized	Federal Funds Expended	Contributed Funds Expended
Big Creek and L'Anguille River, White River Basin, AR	1977	May 6, 81	\$ --	--
Clarendon to Laconia Circle White River Basin, AR	1937	May 6, 81	--	--
Huntingdon, TN	1983	Sep 80	--	--
Long Lake Area, Helena, AR	1983	Jul 83	--	--
Memphis Harbor, Memphis, TN	--	Nov 29, 95	--	--

MEMPHIS, TN, DISTRICT

TABLE 13-I

**SPECIAL AUTHORITIES-CAP
COST AND FINANCIAL STATEMENT**

Project	Federal Cost FY 07	Totals by Section
(Navigation activities pursuant to Sec. 107, Public Law 87-645, as amended.) Northwest Tennessee Regional Harbor, TN - 150101	274,239	
TOTAL (Section 107)		\$ 274,239
(Flood control activities pursuant to Sec. 205, Public Law 858, 80th Cong., as amended) Section 205 Coordination Account Mayfield Crk & Tribbs, KY - 091876 Little River Diversion, Dutchtown, MO - 094520	\$ 24,826 91 166,628	
TOTAL (Section 205)		\$ 191,545
(Aquatic Ecosystem Restoration, Public Law 104-303, Sec. 206) Section 206 Coordination Account	\$4,949	
TOTAL (Section 206)		\$4,949
(Flood Control Act, as amended by the 1974 Water Resources Development Act of the 1954, Sec.208, Snagging and Clearing) Section 208 Coordination Account	15,076	
TOTAL (Section 208)		15,076
(Emergency bank stabilization activities pursuant to Sec. 14, Public Law 526, 79th Cong., as amended.) Section 14 Coordination Account Mount Moriah Culvert, TN - 171617 Oakland Sewage Facility, TN - 176612	\$21,674 573,206 66	
TOTAL (Section 14)		\$594,946
(Project Modifications for improvement of environment pursuant to Sec. 1135, Public Law 99-662, as amended) Section 1135 Coordination Account Lower Cache River, AR - 130022 Lower Obion River and Vicinity, Dyer, County, TN - 167369 Duck Creek Stoddard County, MO - 169705	\$ 4,943 189,834 194,167 8,053	
TOTAL		\$396,997
GRAND TOTAL SPECIAL AUTHORITIES-CAP		\$1,477,752

ST. LOUIS, MO, DISTRICT

This district comprises those portions of southwestern Illinois and eastern Missouri which lie in the drainage basin of Mississippi River and its western tributaries, exclusive of the Missouri River, from the mouth of the Ohio River to mile 300, and of its eastern tributaries to Hamburg Bay at mile 261 on the left bank, exclusive of tributary basin of Illinois Waterway upstream of new La Grange Lock and Dam at mile 80.15 above confluence of the Illinois and Mississippi Rivers. The St. Louis District territory encompasses 27,000 square

miles. The District also includes a drainage basin in Missouri tributary to the Little River diversion channel. The Mississippi River between the Missouri River and mile 300 is included in a separate report on the Mississippi River between the Missouri River and Minneapolis, MN. The portion of the Illinois River downstream of new La Grange Lock and Dam is included in the report of the Chicago District on the Illinois Waterway, Illinois and Indiana.

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Navigation

1. ILLINOIS WATERWAY, IL (ST. LOUIS DISTRICT)

See report on Illinois Waterway, IL and IN, under Rock Island District.

2. KASKASKIA RIVER, IL

Location. The river rises in Champaign County, IL, about 5 miles northwest of Urbana, in the east-central part of the state. It flows southwesterly about 325 miles and empties into the Mississippi River about 8 miles above Chester, IL, or about 118 miles above the mouth of the Ohio River. (See Cincinnati sheet of maps of United States published by Army Map Service, scale 1:500,00.)

Previous project. For details, see Annual Report for 1986.

Existing project. Improvement for navigation provides a channel 9 feet deep and 225 feet wide from the mouth to Fayetteville, IL. Improvements included channel enlargement and a dam at mile 0.8 with a single lock 84 feet wide and 600 feet long. Federal cost totaled \$147,387,000; non-Federal cost totaled \$7,665,000, which included \$1,118,160 local contributions. Fish and wildlife and habitat restoration added in 1996 and recreation in 2000 as project purposes.

Local cooperation. State of Illinois passed legislation authorizing Illinois Department of Public Works and Buildings to enter into assurances of local cooperation with the United States. These assurances have been furnished and were accepted on behalf of the United States on Sep. 10, 1965; these assurances were supplemented on Aug. 7, 1972, to incorporate the provisions of Public Law 91-646.

Operations and result during fiscal year. Operation and maintenance costs totaled \$1,825,066.

3. MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS, MN (ST. LOUIS DISTRICT)

See separate chapter entitled "Mississippi River between Missouri River and Minneapolis, MN," printed in the Annual Report of the Chief of Engineers. This section includes Lock & Dam 24 Major Rehabilitation, Lock & Dam 25 Major Rehabilitation, and Melvin Price Locks & Dam.

4. MISSISSIPPI RIVER BETWEEN OHIO AND MISSOURI RIVERS, MO AND IL

Location. The Mississippi River rises in Lake Itasca, MN, and from that lake flows southerly about 2,340 miles and empties into the Gulf of Mexico. Portion included in this report embraces the 195-mile section known as "Middle Mississippi," between tributary Ohio and Missouri Rivers about 974 to 1,169 miles from the gulf. (See folder by Corps of Engineers Navigation Charts, Middle and Upper Mississippi River, Cairo, IL, to Minneapolis, MN.)

Previous projects. For details, see page 1879 of Annual Report for 1915 and page 1014 of Annual Report for 1938.

Existing project. The existing project provides for obtaining and maintaining a minimum channel depth of not less than 9 feet, a minimum width of not less than 300 feet at low water, with additional widths in bends from mouth of Ohio River (about 974 miles from gulf) to northern boundary of city of St. Louis, mile 191, thence 200 feet wide, with additional width in bends to mouth of Missouri River, mile 195; to be obtained: (1) by regulating works, for closing secondary channels, contracting river by building new banks where river width is excessive and protecting new and old banks from erosion where necessary to secure permanency at an estimated total Federal cost (Oct 2006 price level) of \$268,000,000; (2) by dredging to maintain project channels; (3) by construction of works authorized for Chain of Rocks reach in 1945 River and Harbor Act, which approved a comprehensive plan for development of the river at Chain of Rocks to provide for construction of a lateral canal at a cost of \$59,720,600; and (4) by construction of a fixed-crest rock-fill dam about 900 feet below Chain of Rocks Bridge, authorized by 1958 River and Harbor Act, at a cost of \$4,353,000, excluding \$7,000 costs to Coast Guard for aids to navigation. A small boat harbor opposite Chester, IL, was deauthorized and excluded from foregoing cost estimate. See H. Doc. 669 (76th Cong., 3rd sess.) for report of Chief of Engineers dated Feb. 27, 1940, containing a general plan for improvement of Mississippi River between Coon Rapids Dam and mouth of Ohio River for purposes of navigation, power development, flood control, and needs of irrigation.

Local cooperation. None required.

Terminal facilities. Existing facilities are considered adequate for existing commerce.

Operations and results during fiscal year. Regulating Works: continued tree planting contract for the Thompson Bend riparian corridor, initiated Mosenthein Reach/Ivory Landing Dike and Revetment (Phase 2) contract, initiated Kaskaskia Bend Dike and Revetment (Phase 5) contract, initiated and completed Dike and Revetment River Mile 195-0 contract, engineering and design, and supervision and administration. Construction on existing project began in 1881 and project has been in beneficial use practically from its inception. Projects on Dam 27 and Chain of Rocks are complete. Work on the project is about 80 percent complete. Channel as a whole has been greatly improved by the work completed to date. Dredging is required at low stages to remove temporary shoals and maintain required channel depths. River is generally above 10-foot stage, St. Louis gage, from latter part of February to the latter part of August, during which time project channel depths generally prevail without dredging.

Following the great Mississippi River flood of 1993, it became apparent that the Chain of Rocks, East Canal Levee, was not performing as intended. Sand boils developed along a sizeable reach at flood elevations considerably below design height. Emergency repairs were completed in FY 97. Deficiency corrections (additional berms, relief wells, and a pump station) are estimated at \$46,400,000 (Oct 06 price level). These corrections were initiated in FY 99 and continued in FY 07 with the construction of seepage berms.

Maintenance. Work consists of approximately 2,000 feet of dike repair and 5,000 feet of revetment repair yearly. U.S. plant and hired labor plus contract dredging perform channel dredging removing 5,000,000 to 10,000,000 cubic yards of material (average year) from main channel. Condition and operation studies, recreation planning, engineering and design, and operation and maintenance of Lock and Dam 27 continued. In FY 05, fabricated lift gate machinery for Locks 27, which is in need of major rehabilitation. (Major rehabilitation report was approved in Aug 02.)

5. NAVIGATION WORK UNDER SPECIAL AUTHORIZATION

No activity in FY 07.

Flood Control

6. ALTON TO GALE ORGANIZED LEVEE DISTRICTS, IL & MO

Location. The levee system is located adjacent to the Mississippi River between Alton and Gale, Illinois.

Existing project. The project is authorized by the Flood Control Acts of 1936, 1938 and 1946. Construction of the Alton to Gale levee system was completed in 1977. Some reaches of this levee system have, for many years, been experiencing a significant number of slides associated with design deficiencies increasing the probability of levee failure during flood events. The recommended plan will correct these slides by a lime stabilization procedure. Estimated cost (1997) is \$109,018,000 Federal and \$4,374,000 non-Federal. Resumption of project initiated. New slides were discovered during the 1997 spring levee inspections. The contract to repair the Blue Waters Levee in the Metro East Drainage and Levee District was completed Oct. 1997.

Local cooperation. The cost sharing applicable for the Alton to Gale Levee Slide repairs is in accordance with policies established for the Water Resources Development Act of 1986, PL 99-662. The local sponsor is required to operate and maintain all works after completion. Supplemental assurances have been completed for a portion of the remedial work that was 100% federally funded. In Nov. 2000, ASACW granted an exception to the policy requiring non-Federal cost sharing for deficiency corrections. As a result, 44 levee slides were repaired at 100 percent Federal cost. This portion of work was completed in 2002.

Operations and results during fiscal year. Not applicable; project was last funded in FY 04.

7. BOIS BRULE, MO

Location. The Bois Brule project is located on the right bank of the Mississippi River, and is predominately in Perry County, Missouri, but has a small part in Randolph County, Illinois.

Existing project. The existing project was authorized by the Flood Control Acts of 1936 and 1965. It consists of 33.1 miles of levee, 341 relief wells, and 4 pump stations. The Energy and Water Development Appropriations Act of 2002 provided directive language and funding to undertake design deficiency repairs with cost sharing consistent with the original project authorization. The deficiency correction project consists of 297 relief wells, seepage berms, a seepage cutoff trench, ditching, 3 pump stations, and restoration of 4.2 miles of the back levee to its design grade. The deficiency correction project is approximately 20 percent complete.

Local cooperation. The Bois Brule Levee and Drainage District is the local sponsor and is responsible for land acquisition and relocations. The design and

construction will be 100 percent Federal. The Project Cooperation Agreement (PCA) was executed in April 2004.

Operations and results during fiscal year. Four relief wells were constructed. A contract was awarded for an underseepage cutoff trench and part of a seepage berm.

8. CAPE GIRARDEAU FLOODWALL PROTECTION SYSTEM RECONSTRUCTION PROJECT

Location. Missouri, along the right bank of the Mississippi River floodplain between River Miles 51.6 and 52.8 above the Ohio River.

Existing project. The area protected by the Cape Girardeau flood protection project lies within the corporate limits of the City of Cape Girardeau, Missouri. The overall length of the project is 8,240 feet consisting of 2,175 feet of levee; 6,065 feet of floodwall; 2 pumping stations; 5 closure structures; and other appurtenant structures. The reconstruction includes rock berm to stabilize existing retaining wall; floodwall work (joint repairs, toe drain replacement, soil stabilization and closure gate seal replacement); and pump stations (mechanical, electrical, and miscellaneous structural and culvert work).

Local cooperation. The current project has two levee district sponsors, the Main Street Levee District and the North Main Street Levee District. The city of Cape Girardeau, MO, strongly supports the project and is in the process of assuming project sponsorship from the two existing levee districts. A Project Cooperation Agreement will be executed following approval of the Engineering Documentation Report (EDR).

Operations and results during fiscal year. Addressed comments on the EDR and submitted report for approval. Coordinated power pole issue with power company and the city. Coordinated Project Cooperation Agreement with the city.

9. CHESTERFIELD, MO

Location. The Chesterfield, Missouri project includes the Monarch-Chesterfield Levee, which is located in St. Louis County along the right bank of the Missouri River between river miles 46 and 38.5.

Existing project. The project was authorized by the Water Resources and Development Act of 2000 (P-L 106-541). The project includes a 5-7 foot levee raise, approximately 12 miles long; seepage berms;

relief wells; closure structures; pump stations; and several gravity drains.

Local cooperation. The Monarch-Chesterfield Levee District signed a Design Agreement in August 2001.

Operations and results during fiscal year. Nonstandard Project Partnership Agreement (PPA) (formerly PCA) prepared and submitted to higher Headquarters for approval. Completed design for the first construction contract. The feasibility report, including Environmental Impact Statement, was approved and submitted to Congress.

10. EAST ST. LOUIS, IL

Location. Project is in St. Clair and Madison Counties, IL, on the left bank of the Mississippi River between river miles 175 and 195 above the Ohio River. Project includes all bottom lands between bluffs on the east and Mississippi River and Chain of Rocks Canal on the west, and extends from Cahokia diversion channel on the north to Prairie du Pont Creek on the south. (See Corps of Engineers Navigation Charts, Middle and Upper Mississippi River, Cairo, IL, to Minneapolis, MN.)

Existing project. The 1936 Flood Control Act authorized raising and enlarging existing levee systems by construction or reconstruction of 19.8 miles of levee, including 3.1 miles of floodwall, together with necessary appurtenant works consisting of gravity drainage structures, highway and railroad closure structures, alterations and reconstruction of existing pumping plants, alterations to railroad bridges and approaches at levee crossings, service roads on levee crown, and seepage control measures. The completed 10 miles of levee along Chain of Rocks Canal and Lock 27 provide flood protection on the landward side integral with and to the same degree as the East St. Louis levee. Final cost of work under this authorization is \$22,550,100. The Flood Control Act of 1965 modified existing project to provide for channel improvements, diversion ditches, flood plain detention areas, a reservoir on Little Canteen Creek, and a pumping plant to considerably reduce damages resulting from interior flooding. This act also authorized reconstruction of a channel stabilization dam in Cahokia Creek diversion channel to provide protection to adjacent levees and bridges from scour and eventual loss. Post authorization studies in the early 1980's justified a project that was constructed for the Blue Waters Ditch area, which included channel improvements and a pumping station with a final project cost of \$11,530,000 and \$2,950,000 non-Federal. However,

ST. LOUIS, MO, DISTRICT

flood plain detention areas, the reservoir on Little Canteen Creek and other related flood control measures in the Cahokia-Harding Ditch Area are not economically feasible.

The 1988 Energy and Water Development Appropriations Act authorized repair and rehabilitation of pump stations and appurtenant works, channels and bridge structures. The estimated total cost of this work (Oct 06 price level) is \$39,636,000 Federal and \$16,956,000 Non-Federal.

Local cooperation. For work under the Energy and Water Development Appropriations Act of 1988, PL 100-202, local interests have entered into three Local Cooperation Agreements (LCA) which cover all of the work in the Flood Protection Rehabilitation project. Construction work under the first two LCAs is complete, and construction work under the third LCA is underway. In May 1998, a PED agreement was executed by the local interests to cover costs associated with the reevaluation of the Cahokia-Harding Ditch area.

Operations and results during fiscal year. Completed construction of the Sand Flank Levee, Gatewell 9, Closure Structure C-5, and the Venice Pump Station. Continued construction on the North Pump Station Triple Box Culvert and initiated the Engineering Design Report to identify courses of action for deficiencies in the existing system identified during flooding in 1993 and 1995.

11. EAST ST. LOUIS AND VICINITY, IL (ECOSYSTEM RESTORATION AND FLOOD DAMAGE REDUCTION)

Location. Project is in St. Clair and Madison Counties, IL, on the left bank of the Mississippi River between river miles 175 and 195 above the Ohio River. Project includes all bottom lands between bluffs on the east and Mississippi River and Chain of Rocks Canal on the west, including the tributary watershed, and extends from Cahokia diversion channel on the north to Prairie du Pont Creek on the south. (See Corps of Engineers Navigation Charts, Middle and Upper Mississippi River, Cairo, IL, to Minneapolis, MN.)

Existing project. The 1936 Flood Control Act authorized raising and enlarging existing levee systems by construction or reconstruction of 19.8 miles of levee, including 3.1 miles of floodwall, together with necessary appurtenant works consisting of gravity drainage structures, highway and railroad closure structures, alterations and reconstruction of existing pumping plants, alterations to railroad bridges and

approaches at levee crossings, service roads on levee crown, and seepage control measures. The completed 10 miles of levee along Chain of Rocks Canal and Lock 27 provide flood protection on the landward side integral with and to the same degree as the East St. Louis levee. Final cost of work under this authorization is \$22,550,100. The Flood Control Act of 1965 modified existing project to provide for channel improvements, diversion ditches, flood plain detention areas, a reservoir on Little Canteen Creek, and a pumping plant to considerably reduce damages resulting from interior flooding. This act also authorized reconstruction of a channel stabilization dam in Cahokia Creek diversion channel to provide protection to adjacent levees and bridges from scour and eventual loss. Post authorization studies in the early 1980's justified a project that was constructed for the Blue Waters Ditch area, which included channel improvements and a pumping station with a final project cost of \$11,530,000 and \$2,950,000 non-Federal. However, flood plain detention areas, the reservoir on Little Canteen Creek and other related flood control measures in the Cahokia-Harding Ditch Area are not economically feasible.

Severe flooding, which has resulted in National Disaster Declarations each year from 1993 to 1996, resulted in a new Congressional appropriation in FY 1997 to restart a cost-shared general reevaluation of the interior area. Congress added funds each year since FY 1997 to continue this effort. The project has been reformulated as an ecosystem restoration project that provides incidental flood damage reduction. Chief's Report was signed on December 22, 2004. The General Reevaluation Report was reviewed by the Office of the Assistant Secretary of the Army for Civil Works in 2006 and was returned for revision in September 2006.

Local cooperation. In May 1998, a Preconstruction Engineering & Design agreement was executed by the local interests to cover costs associated with the reevaluation.

Operations and results during fiscal year. Review of the General Reevaluation Report continued in FY 07. Project costs are estimated to be \$210 million.

12. MERAMEC RIVER BASIN (VALLEY PARK), MISSOURI

Location. The project is located in St. Louis County, Missouri, adjacent to the left bank of the Meramec River between miles 20.7 and 22.1 above the confluence with the Mississippi River.

Existing project. The project was authorized for construction by Section 2(h), Public Law 97-128, Dec. 29, 1981, and the Water Resources Development Acts of 1986 and 1999. It protects Valley Park from the 100-year flood on the Meramec River. The project includes 3.2 miles of earthen levee with six gravity drains, three closure structures, interior ponding areas and 41 relief wells required for under-seepage control. Estimated total project cost (2004) \$49,428,000; \$36,905,000 Federal, and \$12,523,000 non-Federal.

Local cooperation. The city of Valley Park, Missouri is the local sponsor. A Local Cooperation Agreement was executed on August 12, 1992.

Operations and results during fiscal year. Contracts were awarded for the final minor flood damage reduction items and the final environmental mitigation work (excavation of a parking lot and the planting of bottom-land hardwood species in this and other areas).

13. NUTWOOD DRAINAGE AND LEVEE DISTRICT, IL

Location. The levee district is in Green and Jersey Counties, IL, on the left bank of the Illinois River between miles 15.2 and 23.7 above the Mississippi River. (See Quincy, IL-MO, sheet of maps of the United States, published by Army Map Service, scale 1:250,000.)

Existing project. Project was authorized by the 1962 Flood Control Act (H. Doc. 472, 87th Cong., 2d sess.). Project provides for raising and enlarging 11.4 miles of levee, construction of 1.0 miles of new levee, altering a pumping station and construction of seepage control measures. This project would provide protection to 10,360 acres of land, 9,365 of which are highly productive agricultural lands. A General Design Memorandum (GDM), completed in 1986, indicated that the plan was not economically justified at the interest rate used at the time. The project was declared inactive on Jun. 3, 1987. As a result of the Great Flood of 1993 and the inundation of Illinois State Highway 16/100 within the project area, the 1995 Energy and Water Development Appropriations Bill included funding to perform a flood damage reduction study.

Local cooperation. Requirements of local cooperation are described on page 14-11 of FY 1980 Annual Report except that cost sharing policies established by the Water Resources Development Act of 1986, PL-99-662, will also apply. The Nutwood Drainage and Levee District is the local sponsor. The cost sharing agreement

for preconstruction engineering and design (PED) was executed in July 1997.

Operations and results during fiscal year. Construction funding was received in FY 2002. Work efforts to acquire necessary permits continued in FY 07. The present total Federal project cost (Oct 03) is \$12,043,000; non-Federal cost is \$4,015,000.

14. RIVER DES PERES, MO

Location. River des Peres drains a 111-square mile area in the city of St. Louis and St. Louis County, Missouri, and empties into the Mississippi River.

Existing project. The project was authorized by the Water Resources and Development Act of 1990 (PL 101-640). The authorized project consists of two subprojects, Deer Creek and University City. The Deer Creek portion consists of 2.5 miles of channel widening and stabilization improvements through the cities of Rock Hill, Webster Groves, Brentwood, and Maplewood. The University City portion consists of channel enlargement and stabilization along about 2.5 miles of the University City branch of upper River des Peres, a 2.53-mile recreation trail, and a small recreation park to be constructed by non-Federal interests on non-project lands.

Local cooperation. The Metropolitan St. Louis Sewer District (MSD) and the mayors of Brentwood, Rock Hill, Webster Groves, and Maplewood signed a Design Agreement on May 17, 2001, to serve as the local sponsors for the Deer Creek portion of the project. The Deer Creek portion is currently deferred as the cities of Rock Hill and Brentwood withdrew their support in FY 03. The city of University City signed a Design Agreement on June 30, 2004.

Operation and results during fiscal year. Continued the General Reevaluation for the University City portion of the project.

15. ST. LOUIS FLOOD PROTECTION, MO

Location. The St. Louis Flood Protection project is located in St. Louis, Missouri, on the right bank of the Mississippi River between miles 176.3 and 187.2 above the mouth of the Ohio River.

Existing project. The project was authorized by Public law 84-256, Aug. 9, 1955, and was completed in 1974. The reevaluation of the project consists of analyzing possible structural deficiencies and geotechnical concerns and the enhancement of recreation features within the project area.

ST. LOUIS, MO, DISTRICT

Local cooperation. The city of St. Louis signed the Design Agreement on Feb. 2, 2000.

Operations and results during fiscal year. Continued plans and specifications for new relief wells; provided draft PPA to city for review.

16. STE. GENEVIEVE, MO

Location. The City of Ste. Genevieve is located in Ste. Genevieve County at the edge of the Mississippi River floodplain about 54 miles south of St. Louis, MO.

Existing project. The project was authorized by the Water Resources Development Act of 1986 (PL 99-662). The authorizing language states "Congress finds that, in view of the historic preservation benefits resulting from the project, the overall benefits of the project exceed the costs of the project." The overall project consists of a major levee and associated features that will protect the town from the Urban Design Flood on the Mississippi River channel improvements on tributary streams that flow through the town and recreation features on flood control lands. Estimated total project cost (2005) is \$49,374,000; \$35,967,000 Federal, and \$13,407,000 is non-Federal.

Local cooperation. The project sponsor for the Urban Design Levee is the Ste. Genevieve Joint Levee Commission. The City of Ste. Genevieve, Ste. Genevieve County Levee District Number 2, and Ste. Genevieve County Levee District Number 3 hold membership on the Commission. In May 2005, a design agreement was executed with the city of Ste. Genevieve for the tributary and recreation features.

Operations and results during fiscal year. Continued general reevaluation of the headwater flooding along North and South Gabouri Creeks; completed Corps review and approval of the sponsor's final lands and relocations costs for the Urban Design Levee.

17. WOOD RIVER DRAINAGE AND LEVEE DISTRICT, IL

Location. The Wood River Drainage and Levee District project is located in the Mississippi River floodplain of Madison County, Illinois, just upstream of the city of St. Louis.

Existing project. The project was authorized by the Flood Control Act of 1938 and modified by the Flood Control Act of 1965. The original project provided for local flood protection works. The modified project provides for a pumping station with collector

ditches and necessary appurtenant facilities for removal of water impounded by the existing levees.

Local cooperation. The Wood River Drainage and Levee District signed a Project Cooperation Agreement on October 28, 2005, with cost sharing being 25 percent non-Federal and 75 percent Federal. The Project Cooperation Agreement was amended on June 29, 2006.

Operations and results during fiscal year. Awarded the contract for construction of the pump station. Construction on the pump station and relief wells began in the 2d quarter of FY 07.

18. WOOD RIVER LEVEE, IL

Location. The Wood River Levee project is located in the Mississippi River floodplain of Madison County, Illinois, just upstream of the city of St. Louis.

Existing project. The project was authorized by the Flood Control Act of 1938 and constructed in the 1950s. The existing project provides urban level protection for the 500-year Mississippi River flood stage. A reconstruction evaluation report to address the aging infrastructure and determine Federal interest was completed. The recommended project includes the rehabilitation of the levee system to bring it into original performance compliance.

Local cooperation. The Wood River Drainage and Levee District signed a Design Agreement on April 6, 2000.

Operations and result during fiscal year. Report recommending implementation of design deficiency measures and Congressional authorization of reconstruction measures for the Wood River levee system were approved by OMB on June 14, 2007.

19. INSPECTION OF COMPLETED FLOOD CONTROL PROJECTS

Inspection of completed work was accomplished at a cost of \$532,810 for FY 07. Total cost as of end of fiscal year is \$14,422,217.

20. FLOOD CONTROL WORK UNDER SPECIAL AUTHORIZATION

Flood control activities pursuant to Sec. 205, Public Law 858, 80th Cong., as amended (preauthorization).

See Table 14-F.

Emergency bank stabilization activities pursuant to Sec. 14, Public Law 526, 79th Cong., as amended.

See Table 14-F.

Emergency flood control activities - repair flood fighting, and rescue work (Public Law 99, 84th Cong., and antecedent legislation).

Federal costs for the fiscal year were \$384,736 for Disaster Preparedness, \$384,658 for Emergency Operations, and \$436,990 for Rehabilitation.

Environmental

21. MADISON AND ST. CLAIR COUNTIES, IL

Location. The environmental infrastructure project is located in Madison and St. Clair Counties, Illinois.

Existing project. The project was authorized by the Water Resources Development Acts of 1992, 1996, and 1999 and the Consolidated Appropriations Act of 2001. The project consists of providing water-related environmental infrastructure and resource protection. Projects include separating out combined sanitary and stormwater sewers and design and construction of sewer systems to improve quality and reduce sewer backups into homes. Some of the systems exceed 100 years of performance. Problems created by this compromised infrastructure impact the health, water quality, and economic development potential of the area. Completed rehabilitation includes a portion of the combined sewer system in the downtown area of East St. Louis, Illinois. Belleville is upgrading its infrastructure in order to remain in compliance with environmental regulations regarding the overflow of combined sewers. Future work is planned for Madison County, including Eagle Park Acres, Glen Carbon, and Maryville.

Local cooperation. Project cooperation agreements have been executed for sewer rehabilitation work in East St. Louis, Belleville, and Eagle Park Acres.

Operation and results during fiscal year. Continued construction of the project in Belleville. Completed the PPA with Madison County for the Eagle Park Acres project. Began development of a PPA with Madison County for the Glen Carbon and Maryville Sewer project.

22. ST. LOUIS, MO (COMBINED SEWER OVERFLOWS)

Location. The project is limited to work within the city of St. Louis, Missouri.

Existing project. The project was authorized by the Water Resources Development Acts of 1992 and 1999. The purpose is to eliminate or control combined sewer overflows in the city of St. Louis.

Local cooperation. Project cooperation agreements have been executed with the Metropolitan St. Louis Sewer District for work on the Old Mill Creek Sewer.

Operation and results during fiscal year. Not applicable – project was not funded in FY 07.

Miscellaneous

23. ECOSYSTEM RESTORATION WORK UNDER SPECIAL AUTHORIZATION

Project Modifications for improvement of environment pursuant to Sec. 1135, Public Law 99-662, as amended (preauthorization).

During FY 07, the following funds were expended: \$3,920 Coordination Account; \$2,798 Rend City Wetlands Restoration; \$578 Spunky Bottoms; and \$7,501 Shelbyville Wildlife Management Area.

Aquatic Ecosystem Restoration Public Law 104-303, Sec. 206.

In FY 07, funds were expended as follows: \$29 Confluence Greenway; \$71 No Chutes Area Restoration, Ted Shanks; \$1,020 Watkins Creek, St. Louis, MO; and \$84,700 Confluence Point State Park.

24. GENERAL REGULATORY FUNCTIONS

Permit Evaluations	\$1,715,657
Enforcement	87,185
Studies	99,838
Environmental Impact Statement	0
Appeals	0
Compliance and Mitigation	78,483
Total Regulatory	\$1,981,163

ST. LOUIS, MO, DISTRICT

25. CATASTROPHIC DISASTER PREPAREDNESS PROGRAM

Local Preparedness	\$ 0
National Preparedness	0
National Emergency Facilities	0
Readiness Training	0
Total	\$0

26. OTHER PROGRAMS AND ACTIVITIES

In FY 07, \$1,485,245 was expended on Native American Grave Protection for operation and maintenance.

27. UPPER MISSISSIPPI RIVER RESTORATION (UMRR) (FORMERLY ENVIRONMENTAL MANAGEMENT PROGRAM)

Location. The portion of the Upper Mississippi River within the boundaries of the St. Louis District extends from the mouth of the Ohio River (river mile 0) to river mile 300, downstream of Lock and Dam 22.

Existing project. The project is composed of five elements: Habitat Rehabilitation and Enhancement Projects, Long-term Resource Monitoring, Recreation Projects, Studies of Recreation Impacts and Navigation Traffic Monitoring. (The St. Louis District's involvement has been limited to Habitat Rehabilitation and Enhancement Projects and Long Term Resource Monitoring.) The overall program, involving five states and three engineer districts, is administered by the Mississippi Valley Division. In the St. Louis District, seven habitat rehabilitation projects have been completed. These are Clarksville Management Area, Dresser Island, Pharrs Island, Stag Island, and Cuivre Island in Missouri and Stump Lake and Swan Lake in Illinois. Through FY 2006, funds allocated to the St. Louis District have amounted to \$44,934,044 for design and construction of Habitat Rehabilitation and Enhancement Projects (HREP), \$2,674,716 for Long Term Resource Monitoring (LTRM), \$2,991,385 for Program Management; and \$967,800 for Habitat Needs Assessment.

During FY 07, expenditures of \$2,815,689 included the following:

Baseline Monitoring	\$ 174,749
Batchtown	1,108,534
Biological Response Monitoring	22,687
Calhoun Point	187,019
Pools 24 Islands	27,313
Pools 25/26	88,747
Program Management	192,863
Project Evaluation LTRM	321,295
Rip Rap Landing	23,813
Swan Lake	223,329
Ted Shanks	278,487
Wilkinson Island	166,853

Local cooperation. The terms of local cooperation, as established by Public Law 99-662, will vary according to the nature of the project, land ownership and pre-existing management responsibilities. The local sponsor for Habitat Rehabilitation and Enhancement projects is usually the U.S. Fish and Wildlife Service in coordination with the state of Missouri or the state of Illinois. A Project Cost Sharing Agreement with the state of Missouri was completed in FY 97 for the Cuivre Island project.

Operations and results during the fiscal year. During FY 07, continued design on Batchtown Phase III, Illinois; Pools 25 and 26 Islands, Missouri; Wildinon Island, Illinois; and Ted Shanks, Missouri. Continued construction on Calhoun Point Phase II. Habitat and biological response monitoring activities continued on numerous projects in Missouri and Illinois.

28. FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM (FUSRAP)

On October 13, 1997, Congress transferred the management of the Formerly Utilized Sites Remedial Action Program (FUSRAP) to the Corps of Engineers, via the Energy and Water Development Appropriations Act, 1998. The St. Louis District was chosen to remediate low-level radioactive contamination, which resulted from activities conducted by the Manhattan Engineer District/Atomic Energy Commission, at the five St. Louis area sites. These sites include the Madison Site in Madison, Illinois, Hazelwood Interim Storage Site (HISS)/Latty Avenue Vicinity Properties (VPs), St. Louis Airport Site (SLAPS), St. Louis Airport Site Vicinity Properties (SLAPS VPs), and

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St. Louis Downtown (SLDS), in St. Louis, Missouri. A sixth site, the Iowa Army Ammunition Plant (IAAAP), was declared eligible for inclusion in FUSRAP in FY 01. Cleanup will follow the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act.

In FY 07, 72,849 cubic yards of material were disposed of from the Missouri sites. The Corps of

Engineers continued its remediation efforts at both SLDS and the North County sites under approved Records of Decision. The Corps completed remedial activity at the St. Louis Airport Site in North County during FY 07 and conducted a closeout ceremony at the site in May 2007. At IAAAP, funds were used to issue a Radiological Investigation Work Plan and conduct remedial sampling and analysis based on the Plan.

ST. LOUIS, MO, DISTRICT

TABLE 14-A COST AND FINANCIAL STATEMENT

See Section in Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Funds to Sep. 30, 2007
4.	Mississippi River Between Ohio and Missouri Rivers (Includes Chain of Rocks original project and deficiency corrections)	New Work					
		Approp.	\$2,759,100	\$4,663,000	\$10,760,000	\$14,360,000	\$308,910,274 ¹
		Cost	2,744,200	4,618,377	3,959,160	5,722,945	293,408,199 ¹
		Approp.	15,681,000	22,022,805	29,679,000	24,842,000	567,398,006 ²
		Cost	16,808,310	22,314,605	27,640,994	20,557,120	561,002,306 ²
6.	Alton to Gale Organized Levee Districts, IL & MO (Contrib. Funds)	New Work					
		Approp.	800	0	0	0	11,908,200
		Cost	787	0	0	-1,520	11,906,529
		Approp.	0	0	0	0	143,750
		Cost	8	0	0	1,520	118,239
7.	Bois Brule, MO (Design Deficiency)	New Work					
		Approp.	912,500	1,328,000	1,792,000	1,560,000	6,991,500
		Cost	949,582	1,400,026	1,681,452	280,856	5,561,375
8.	Cape Girardeau Floodwall Protection System	New Work					
		Approp.	497,000	745,000	297,000	300,000	1,839,000
		Cost	360,800	513,812	619,414	166,683	1,660,704
9.	Chesterfield, MO (Contrib. Funds)	New Work					
		Approp.	295,000	275,000	891,000	0	2,343,900
		Cost	295,314	,276,647	144,768	453,099	2,045,739
		Approp.	148,600	0	56,000	341,066	835,066
		Cost	160,568	82,589	54,760	14,089	485,801
10.	East St. Louis, IL (Contrib. Funds)	New Work					
		Approp.	602,000	436,000	990,000	2,801,500	60,758,862 ³
		Cost	596,472	419,008	654,244	1,242,189	58,839,300 ⁴
		Approp.	0	0	953,297	0	9,268,497
		Cost	62,013	16,917	0	198,862	8,480,623
11.	East St. Louis and Vicinity, IL (Ecosystem Restoration and Flood Damage Reduction) (Contrib. Funds)	New work					
		Approp.	117,000	45,000	297,000	290,000	19,296,025
		Cost	115,425	41,688	133,680	162,806	19,000,787
		Approp.	45,000	0	43,000	47,000	1,990,750
		Cost	110,238	46,601	489	45,678	1,946,286
12.	Meramec R. Basin, Valley Park, MO (Contrib. Funds)	New Work					
		Approp.	4,218,500	5,545,000	7,120,000	0	37,149,600
		Cost	4,212,104	5,530,083	6,345,746	470,080	36,824,094
		Approp.	178,000	523,734	477,000	36,000	2,743,792
		Cost	178,008	524,787	477,255	2,709,100	5,418,200

**TABLE 14-A COST AND FINANCIAL STATEMENT
(Continued)**

See Section in Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Funds to Sep. 30, 2007
13.	Nutwood Drainage and Levee District, IL	New Work					
		Approp.	\$117,000	\$89,000	\$118,000	\$150,000	\$719,300
		Cost	116,853	89,175	100,953	81,938	634,159
	(Contrib. Funds)	New Work					
		Approp.	0	0	0	0	0
		Cost	0	0	0	0	0
16.	Ste. Genevieve, MO	New Work					
		Approp.	158,900	194,000	544,000	25,000	26,720,600
		Cost	160,703	191,977	161,668	259,977	26,570,761
	(Contrib. Funds)	New Work					
		Approp.	0	614,012	0	0	7,165,662
		Cost	66,987	323,894	127,241	29,354	7,029,773
21.	Madison and St. Clair Counties, IL	New Work					
		Approp.	144,000	1,435,000	742,000	897,000	4,375,700
		Cost	141,828	1,317,936	801,220	113,982	3,532,497
	(Contrib. Funds)	New Work					
		Approp.	280,000	421,042	48,000	266,000	1,431,042
		Cost	86,775	405,738	382,199	18,871	1,182,880
22.	St. Louis, MO (Combined Sewer Overflows)	New Work					
		Approp.	2,348,000	1,686,000	0	0	5,196,000
		Cost	2,750,022	1,646,473	45,659	9,357	5,179,222
	(Contrib. Funds)	New Work					
		Approp.	1,227,000	280,000	-140,627	30,000	1,715,373
		Cost	875,542	643,826	5,847	0	1,685,373
28.	FUSRAP (Total)	New Work					
		Approp.	50,100,000	54,300,000	47,348,000	44,700,000	609,784,000
		Cost	49,988,571	54,154,690	45,136,180	43,432,774	605,255,067
	Madison	New Work					
		Approp.	0	0	-39,000	0	2,245,000
		Cost	-7,768	0	13,472	149	2,245,000
	Latty Avenue	New Work					
		Approp.	1,893,000	2,300,000	1,873,000	16,700,000	84,828,000
		Cost	1,873,909	2,217,607	1,918,189	14,951,288	82,897,407
	St. Louis Airport	New Work					
		Approp.	36,466,000	38,300,000	30,180,000	6,945,000	305,181,000
		Cost	36,834,129	38,282,090	28,953,870	7,724,026	304,418,024

ST. LOUIS, MO, DISTRICT

**TABLE 14-A COST AND FINANCIAL STATEMENT
(Continued)**

See Section in Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Funds to Sep. 30, 2007
St. Louis Airport & Vic. Properties	New Work	Approp.	\$1,602,000	\$1,900,000	\$1,634,000	\$4,655,000	\$47,928,000
		Cost	1,599,877	1,841,498	1,759,198	4,332,752	47,559,951
St. Louis Downtown	New Work	Approp.	9,889,000	11,300,000	13,300,000	15,400,000	167,077,000
		Cost	9,906,413	11,307,457	12,282,635	15,346,685	165,777,652
Iowa Army Ammunition Plant	New Work	Approp.	250,000	500,000	400,000	1,000,000	2,325,000
		Cost	232,012	506,038	208,816	1,077,874	2,157,033
Oakridge Transition	New Work	Approp.	0	0	0	0	200,000
		Cost	0	0	0	0	200,000

1. Excludes previous project cost of \$1,416,620.
2. In addition \$1,139,000 was expended for rehabilitation.
3. Includes \$8,072,326 for work authorized by Flood Control Act of 1965.
4. Includes \$7,921,939 for work authorized by Flood Control Act of 1965.
5. Excludes previous project cost (prior to FY97) of \$15,632,925.

TABLE 14-B AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
Oct. 23, 1962	KASKASKIA RIVER, IL (See Section 2 of Text) Construct canal, lock, and dam to provide a 9-foot navigation channel from mouth to Fayetteville, IL.	S. Doc. 44, 87th Cong., 1st sess.
Oct. 12, 1996	Modified to add fish and wildlife and habitat restoration as project purpose.	Public Law 104-303
Dec. 11, 2000	Modified to include recreation as a project purpose.	Public Law 106-541, Section 311
MISSISSIPPI RIVER BETWEEN OHIO AND MISSOURI RIVERS (See Section 4 of Text)		
Jun. 3, 1896	Project for regulating works in 1881. (To obtain a minimum depth of 8 feet.) Dredging introduced as part of the project.	Annual Report, 1881, p. 1536.
Jun. 13, 1902 Mar. 2, 1907 ¹ Mar. 3, 1905 ¹	These acts practically abrogated that part of project for middle Mississippi which proposed regulating works.	
Jun. 25, 1910	Regulating works restored to project and appropriations begun with a view to completion of improvement between Ohio and Missouri Rivers within 12 years at an estimated cost of \$21 million, exclusive of amounts previously expended.	
Jan. 21, 1927	For 9 feet deep and 300 feet wide from Ohio River to northern Rivers and Harbors boundary of city of St. Louis.	Committee Doc. 9, 69th Cong., 2d sess.
Jul. 3, 1930	Project between northern boundary of St. Louis and Grafton (mouth of Illinois River) modified to provide a channel 9 feet deep and generally 200 feet wide with additional width around bends.	Rivers and Harbors Committee Doc. 12, 70th Cong., 1st sess.
Mar. 2, 1945	Modified to provide construction of a lateral canal with lock at Chain of Rocks.	H. Doc. 231, 76th Cong., 1st sess.
Sep. 3, 1954 ²	Modified to provide construction of a small-boat harbor opposite Chester, IL.	H. Doc. 230, 83d Cong., 1st sess.
Jul. 3, 1958 ³	Modified to provide construction of a fixed crest rockfill dam 900 feet below Chain of Rocks Bridge.	
MELVIN PRICE LOCKS & DAM (FORMERLY LOCK AND DAM NO. 26 (REPLACEMENT))		
Oct. 21, 1978	Construct new dam and a 1,200-foot lock approximately 2 miles downstream of the existing structure.	Public Law 95-502, 95th Cong.
Dec. 29, 1981	Change name from "Lock and Dam No. 26" to "Melvin Price Lock and Dam" upon termination of service in U.S. Congress.	Public Law 97-118, 97th Cong.
Aug. 15, 1985 and Nov. 17, 1986	Construct a second lock, 600 feet long at the Lock and Dam No. 26. (Replacement) Project.	Public Law 99-88 and Public Law 99-662, 99th Cong.

ST. LOUIS, MO, DISTRICT

**TABLE 14-B
(Continued)**

AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
Nov. 28, 1990	Modified to provide construction of cost-shared recreation facilities within the state of Illinois	Public Law 101-640, 101st Cong.
Oct. 31, 1992	Modified to allow cost-shared recreation with other non-Federal interests and authorized a 24,000 square foot visitor center.	Public Law 102-580, 102nd Cong.
Oct. 12, 1996	Amended project for recreation to include other contiguous nonproject lands, including those referred to as the Alton Commons.	Public Law 104-303
1960 River and Harbor Act as amended. Section 107	SOUTHEAST MISSOURI PORT, MO Construct harbor channel with adjacent landfill.	
Nov. 26, 1986	ST. LOUIS HARBOR, MO & IL As outlined in the Report of the Chief of Engineers, dated Apr. 30, 1984, the Water Resources Development Act of 1986 authorizes navigation improvements.	Public Law 99-662 99th Cong., 2d sess.
Oct. 12, 1996	The Secretary shall complete a limited reevaluation of the authorized St. Louis Harbor Project in the vicinity of the Chain of Rocks Canal, Illinois, consistent with the authorized purposes of that project, to include evacuation of waters collecting on the land side of the Chain of Rocks Canal East Levee	Public Law 104-303
Jun. 22, 1936	ALTON TO GALE ORGANIZED LEVEE DISTRICTS, IL & MO (See Section 6 of Text) Authorized construction of levees to protect area from flooding from the Mississippi River.	Special report on record in OCE Flood Control Committee Doc. 1, 75th Cong., 1st sess.
Jun. 28, 1938 1946		
Nov. 17, 1986	CAPE GIRARDEAU, JACKSON METROPOLITAN AREA, MO As outlined in the Report of the Chief of Engineers dated Dec. 8, 1984, the Water Resources Development Act of 1986 authorizes flood control and related recreational improvements in the Cape La Croix Creek Watershed.	Public Law 99-662, 99th Cong., 2d sess.
Oct. 12, 1996	As outlined in the Report of the Chief of Engineers, dated July 18, 1994, the Water Resources and Development Act of 1996 authorizes construction, including nonstructural measures, at a total cost of \$45,414,000 (\$33,030,000 Federal; \$12,384,000 non-Federal)	Public Law 104-303, 104th Congress
Dec. 11, 2000	CHESTERFIELD, MO (See Section 9 of Text) Authorized for construction, subject to completion of a favorable Chief of Engineers Report by Dec. 31, 2000. (Report was signed Dec. 29, 2000.)	Public Law 106-541 106th Congress

TABLE 14-B
(Continued) **AUTHORIZING LEGISLATION**

Acts	Work Authorized	Documents
Nov. 28, 1990	COLDWATER CREEK, MO As outlined in the report of the Chief of Engineers dated Aug 9, 1988, the Water Resources Development Act of 1990 authorizes flood control.	Public Law 101-640 101st Cong.
Jun. 22, 1936	EAST ST. LOUIS AND VICINITY, IL (See Sections 10 and 11 of Text) Raise and enlarge existing levee.	Special report on record in OCE.
Oct. 27, 1965	Construct pumping plant and other modifications to reduce interior flooding.	H. Doc 329, 88th Cong., 2d sess.
Oct. 22, 1976	Construct Blue Waters Ditch as independent section.	Public Law 94-587, 94th Cong.
Dec. 22, 1987	Repair and rehabilitate pump stations and appurtenant works, channels, and bridges.	Public Law 100-202, 100th Cong.
Oct. 23, 1962	ELDRED AND SPANKEY DRAINAGE AND LEVEE DISTRICT, IL Raise and enlarge existing levee and other modifications.	H. Doc. 472, 87th Cong., 2d sess.
Oct. 23, 1962	HARTWELL DRAINAGE AND LEVEE DISTRICT, IL Raise and enlarge existing levee and other modifications.	H. Doc. 472, 87th Cong., 2d sess.
Oct. 23, 1962	HILLVIEW DRAINAGE AND LEVEE DISTRICT, IL Raise and enlarge existing levee and other modifications.	H. Doc. 472, 87th Cong., 2d sess.
Oct. 23, 1962	KASKASKIA ISLAND DRAINAGE AND LEVEE DISTRICT, IL Raise and enlarge existing levee.	H. Doc. 519, 87th Cong., 2d sess.
Nov. 17, 1986	MALINE CREEK, MO As outlined in the Report of the Chief of Engineers dated Nov. 2, 1982, the Water Resources Development Act of 1986 authorizes flood control, recreation, and environmental improvements.	Public Law 99-662, 99th Cong., 2d sess.
Jul. 14, 1984	MAUVAISE TERRE DRAINAGE AND LEVEE DISTRICT, IL Raise and enlarge existing levee and other modifications.	Energy and Water Development Approp. Act of 1985, 98th Cong., 2nd sess.
Jun. 28, 1938	MERAMEC RIVER BASIN, MO (See Section 12 of Text) Construct reservoirs and local protection project.	Flood Control Committee, Doc. 1, 75th Cong., 1st sess.
Nov. 7, 1966	Construct Pine Ford, Irondale, and I-38 dams and 19 Angler-use sites.	H. Doc. 525, 89th Cong., 2d sess.

ST. LOUIS, MO, DISTRICT

TABLE 14-B **AUTHORIZING LEGISLATION**
(Continued)

Acts	Work Authorized	Documents
Dec. 29, 1981	Undertake structural and nonstructural flood control measures.	Public Law 97-128, 97th Cong. Amended Section 1128, Public Law 99-662, 99th Cong.
Aug. 17, 1999	Modified to authorize construction at a maximum Federal expenditure of \$35,000,000	Public Law 106-53, 106th Cong., 1st sess.
Dec. 1, 2003	Modified to authorize construction at a maximum Federal expenditure of \$50,000,000.	Public Law 108-137 108 th Cong., 1 st sess.
	MCGEE CREEK DRAINAGE AND LEVEE DISTRICT, IL	
Oct. 23, 1962	Reconstruct existing levee and construct pumping plant to reduce flooding.	H. Doc. 472, 87th Cong., 2d sess.
	MEREDOSIA LAKE AND WILLOW CREEK DRAINAGE AND LEVEE DISTRICT, IL	
Oct. 23, 1962	Raise and enlarge existing levee and other modifications.	H. Doc. 472, 87th Cong., 2d sess.
	NUTWOOD DRAINAGE AND LEVEE DISTRICT, IL (See Section 13 of Text)	
Oct. 23, 1962	Raise and enlarge existing levee and other modifications.	H. Doc. 472, 87th Cong., 2d sess.
	REND LAKE, BIG MUDDY RIVER, IL	
Oct. 23, 1962	Construct dam at Benton, IL, and subimpoundment dams on upper arms of reservoir.	H. Doc 541, 87th Cong., 2d sess.
	RIVER DES PERES, MO (See Section 14 of Text)	
Nov. 28, 1990	As outlined in the report of the Chief Engineers dated May 23, 1989, the Water Resources Development Act of 1990 authorizes flood control.	Public Law 101-640 101st Cong.
	ST. LOUIS FLOOD PROTECTION, MO (See Section 15 of Text)	
Aug. 9, 1955	Construct flood control improvements.	Public Law 84-256 84th Cong.
	STE. GENEVIEVE, MO (See Section 16 of Text)	
Nov. 17, 1986	As outlined in the Report of the Board of Engineers for Rivers and Harbors dated Apr. 16, 1985, the Water Resources Development Act of 1986 authorizes construction of a levee and a pumping plant to protect the city from Mississippi River and Gabouri Creek floods.	Public Law 99-662, 99th Cong., 2d sess.
	WOOD RIVER DRAINAGE AND LEVEE DISTRICT, IL (See Section 17 of Text)	
Jun. 28, 1938	Construct reservoirs and local protection projects.	Flood Control Committee Doc. 1, 75th Cong., 1st sess.
Oct. 27, 1965	Authorized substantially as recommended by the Chief of Engineers.	H. Doc 150 88th Cong.

TABLE 14-B **AUTHORIZING LEGISLATION**
(Continued)

Acts	Work Authorized	Documents
Jun. 28, 1938	WOOD RIVER LEVEE, IL (See Section 18 of Text) Construct reservoirs and local protection projects.	Flood Control Committee Doc. 1, 75th Cong, 1st sess.
Oct. 31, 1992	MADISON AND ST. CLAIR COUNTIES, IL (See Section 21 of Text) Authorized assistance to non-Federal interests for carrying out water-related environmental infrastructure and resource protection and development projects.	Public Law 102-580 102d Cong.
Dec. 21, 2000	Amended WRDA 1992 to include \$10,000,000 for water and wastewater assistance for Madison and St. Clair Counties.	Public Law 106-554 106th Cong.
Oct. 31, 1992	ST. LOUIS, MO (COMBINED SEWER OVERFLOWS) (See Section 22 of Text) Authorized assistance to non-Federal interests for carrying out water-related environmental infrastructure and resource protection and development projects.	Public Law 102-580 102d Cong.
Aug. 17, 1999	Amended WRDA 1992 to include \$15,000,000 for a project to eliminate or control combined sewer overflows in the city of St. Louis, Missouri.	Public Law 106-53 106th Cong.
Oct. 23, 1962	CLARENCE CANNON DAM AND RESERVOIR, SALT RIVER, MO Modified act of Jun. 28, 1938 by deleting the reservoir therefrom and reauthorizing it as a separate multiple-purpose project.	H. Doc. 507, 87th Cong., 2d sess.
Oct. 27, 1965	Changes name of project from Joanna Dam to present designation.	Public Law 89-298, 89th Cong.
Oct. 13, 1997	Formerly Utilized Sites Remedial Action Program (FUSRAP) (See Section 28 of Text) Carry out remediation at five St. Louis Area sites - Madison, Illinois, Latty Avenue, St. Louis Airport, St. Louis Airport and Vicinity Properties, and St. Louis Downtown, MO.	Energy and Water Development Approp. Act of 1998
May 17, 1950	CAPE GIRARDEAU FLOOD PROTECTION, MO The project for flood protection at Cape Girardeau, Missouri, substantially in accordance with recommendations of the Chief of Engineers in House Document Numbered 204, Eighty-first Congress, first session.	Public Law 516-81 st Congress, Chapter 188-2 nd Session, H.R. 5472

TABLE 14-B
(Continued)**AUTHORIZING LEGISLATION**

Acts	Work Authorized	Documents
Dec. 1, 2003	Plan, design, and initiate reconstruction of the Cape Girardeau MO project, originally authorized by the FCA of 1950, at an estimated total cost of \$9,000,000, with cost sharing on the same basis as cost sharing of the project as originally authorized, if the Secretary determines that the reconstruction is technically sound and environmentally acceptable; Provided further, That the planned reconstruction shall be based on the most cost-effective Engineering solution and shall require no further economic justification.	Public Law 108-137 Energy and Water Development Approp. Act, 2004

1. Also joint resolution, Jun. 29, 1906.
2. Inactive.
3. All work completed.

TABLE 14-C OTHER AUTHORIZED NAVIGATION PROJECTS

Project	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
		Construction	Operation and Maintenance	
Cuivre River, MO ¹	1883	\$ 12,000	\$ --	--
Kaskaskia River, IL ²	1989	147,387,000	47,435,491	1988
Moccasin Springs, MO	1969	76,436 ³	--	--
Southeast Missouri Port, MO	1993	3,466,522	3,404,187	Apr. 89
Wabash Railroad Bridges, Illinois River, Meredosia, and Valley City, IL	1961	2,653,194	1961	--
St. Louis Harbor, MO	2005			Not constructed

1. Inactive. River declared nonnavigable by act of Mar. 23, 1900.

2. Excludes \$10,461 expended on previous project.

3. Excludes \$56,605 contributed funds.

ST. LOUIS, MO, DISTRICT

TABLE 14-D OTHER AUTHORIZED FLOOD CONTROL PROJECTS

Project	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
		Construction	Operation and Maintenance	
Clarence Cannon Dam and Reservoir, Salt River, MO	1996	313,180,128	125,539,853	--
Cache River Diversion, IL	1953	2,837,114	--	1953
Cape Girardeau, MO, No. 2	1965	5,157,805	--	1964
Cape Girardeau, Jackson, MO	2006	35,315,987	--	2003
Carlyle Lake, IL Oct. 1976	1981	42,819,400	132,988,360	
Chouteau, Nameoki, and Venice Drainage and Levee District, IL	1955	185,700	--	1955
Columbia Drainage and Levee District No. 3, IL	1981	2,818,000	--	Aug. 1981
Degognia and Fountain Bluff Levee and Drainage District, IL	1959	5,889,500	--	1959
Dively Drainage & Levee District, IL	1976	1,720,000	--	1976
Emergency bank protection for certain highway and railroad facilities at Price Landing, MO (see Flood Control Act of 1944) ¹	1950	55,415	--	Oct. 1949
Emergency repairs to levees on Mississippi, Illinois, and Kaskaskia Rivers and flood fighting and rescue work (Sec. 5, Flood Control Act of 1941, as amended) ¹	1953	--	--	1951
Emergency protection for certain highway and railroad facilities at Chester, IL, bridge (Sec. 12, Flood Control Act of 1944)	1952	50,000	--	Jan. 1952
Emergency protection for Illinois approach, Chain of Rocks Bridge (Sec. 12, Flood Control Act of 1944)	1946	25,000	--	Aug. 1945
Fort Chartres and Ivy Landing Drainage District No. 5, IL	1970	1,154,800	--	1958
Grand Tower Drainage and Levee District, IL	1959	4,677,900	--	1959
Harrisonville Levee and Drainage District, IL	1981	6,829,069	--	Mar. 1981
Kaskaskia Island Drainage and Levee District, IL	1959	297,460	--	1949
Lake Shelbyville, IL	1981	44,000,000	137,504,504	Sep. 1978
Mauvaise Terre Drainage and Levee District, IL	1989	589,000	--	1988
McGee Creek Drainage and Levee District, IL	1989	25,043,300	--	1989
Meredosia Lake and Willow Creek Drainage and Levee District, IL	1944	249,738	--	1944
Miller Pond Drainage District, IL	1955	164,183	--	1955

TABLE 14-D **OTHER AUTHORIZED FLOOD**
(Continued) **CONTROL PROJECTS**

Project	For Last Full Report See Annual Report For:	Cost to Sep. 30, 2007		Mo. and Yr. Completed
		Construction	Operation and Maintenance	
Mississippi River Agricultural Area 8, MO	1987	2,137,000	--	--
Mississippi River at St. Louis, MO	1980	79,265,166	--	Jan. 1980
Mississippi River, Alton to Gale, IL, underseepage measures	--	85,422	--	Oct. 1962
North Alexander Drainage and Levee District, IL	1957	939,569	--	1957
Nutwood Drainage and Levee District, IL	1989	670,000	--	1984
Perry County Drainage and Levee ² District Nos. 1, 2, and 3, MO	1987	7,968,700	--	1986
Pine Ford Lake, MO	1996	3,644,000	--	-
Prairie du Pont Levee and Sanitary District, IL ³	1970	6,005,127	--	1970
Prairie du Rocher and vicinity, IL	1959	3,882,600	--	1959
Preston Drainage and Levee District, IL	1959	1,866,910	--	1959
Rend Lake, Big Muddy River, IL ^{4,5}	1989	43,700,900	107,702,570	1988
Strington, Ft. Chartres, and Ivy Landing, IL	1957	2,123,700	--	Aug. 1956
Urban areas at Alton, IL	1960	192,000	--	--
Village of New Athens, IL	1981	1,983,000	--	Sep. 1981
Valley City Drainage & Levee District, IL ⁶	1967	91,952	--	1967
Wood River Drainage and Levee District, IL ⁷	1989	17,163,821	--	1988

1. Work complete, now performed under Public Law 99.
2. Excludes \$6,800,700 for previous project.
3. Includes \$5,235,927 for previous project.
4. Excludes \$550,000 Area Development Administration Funds allotted to the State of Illinois for increased construction costs of Interstate Highway 57 to meet project requirements, and excludes \$449,093 Area Redevelopment Administration Funds allotted to the Corps.
5. Includes \$6,103,711 credit to State of Illinois for work in kind.
6. Authorized by Chief of Engineers (Sec. 205, 1948 Flood Control Act, as amended).
7. Funds are for work authorized by Flood Control Act of 1938.

ST. LOUIS, MO, DISTRICT

TABLE 14-E DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report For	Date And Authority	Federal Funds Expended	Contrib Funds Exp
Angler-use sites, Meramec Basin, MO	1967	WRDA 1986 Oct 86	--	--
Big Swan D&L District Illinois River, IL	--	WRDA 1986 Oct 86	--	--
Cape Girardeau, MO Reaches Nos 1, 3, and 4	1959	Oct 78	\$ 22,000	--
Clear Creek Drainage and Levee District, IL	1964	PL 100-676 Jan 90	4,984,500	--
East Cape Girardeau and Clear Creek D&L District, IL	1963	PL 100-676 Jan 90	1,920,600	--
Eldred, IL	1962	Nov 79	--	--
Fort Chartres & Ivy Landing D&L District No. 5 and Stringtown Drainage and Levee District No. 4, IL	1971	WRDA 1986 Oct 86	--	--
Grafton Small Boat Harbor, IL	1962 ¹	Nov 77	--	--
I-38 Lake, MO		PL 100-676 1 Jan 1990	--	--
Indian Creek Area Illinois River, IL	--	Nov 81	--	--
Irondale Lake, MO		PL 100-676 1 Jan 1990	--	--
Keach Drainage and Levee District, IL	--	WRDA 1986 Oct 86	--	--
Levee Districts between Carlyle and New Athens, IL, Nos. 2, 5, 6 and 7	1979	Nov 79	--	--
Levee Districts between Carlyle and New Athens, IL Nos. 3, 4, 8, 10 and 13	1979	Nov 79	--	--
Levee Districts between Cowden and Vandalia, IL	1978	Oct 78	496,000	--
Meramec Park Lake, MO		Dec 81	37,682,514	--
Mississippi River Agricultural Area No. 10, MO	1967	Nov 79	--	--
Mississippi River Agricultural Area No. 12, MO	1967	WRDA 1986 Oct 86	--	--
Mississippi River at Alton, IL				
Small Boat Harbor	1958 ¹	Nov 77	--	--
Preston Drainage and Levee District, IL	1959	PL 100-676 1 Jan 1990	1,866,910	--
Richland Creek, IL	1969	PL 100-676 10 Aug 89	401,000	--
Riverland Levee District, MO	1936	Aug 77	--	--
Scott County D&L District Illinois River, IL	--	WRDA 1986 Oct 86	--	--
Small Boat Harbor opposite Chester, IL	1954 ¹	Nov 77	--	--
Small Boat Harbor opposite Hamburg, IL	1950 ¹	Nov 77	--	--
Ste. Genevieve County Drainage and Levee District No. 1, MO	1936	Nov 77	--	--

¹ Year authorized.

ST. LOUIS, MO, DISTRICT

TABLE 14-F

**FLOOD CONTROL WORK
UNDER SPECIAL AUTHORIZATION**

Project	FISCAL YEAR COST		
	Federal Cost	Non-Federal	Total
Flood Control (Section 205, P. L. 858, preauthorization)			
Festus and Crystal City, MO	\$331,932	\$14,438	\$346,370
Lovington, MO	72	0	72
Meredosia, IL	9,897	0	9,897
Modoc Levee & Drainage District, Prairie, IL	48,999	0	48,999
Santa Fe D&LD, IL	77	0	77
Section 205 Coordination Account	<u>16,523</u>	<u>0</u>	<u>16,523</u>
Total Section 205	\$407,500	\$14,438	\$421,938
Emergency StreamBank & Shoreline Protection (Section 14 of 1946 Flood Control Act, P.L. 526)			
Hwy A, Turkey Creek, MO	1	0	1
Section 14 Coordination Account	18,824	0	18,824
Strecker Road, Wildwood, MO	<u>22</u>	<u>0</u>	<u>22</u>
Total Section 14	\$18,847	\$0	\$18,847

**TABLE 14-G ACTIVE INVESTIGATIONS
(96x3121)**

Project	FISCAL YEAR COST		
	Federal Cost	Non-Federal	Total
SURVEYS (Category 100)			
<u>Watershed Comprehensive Studies (150)</u>			
St. Louis Riverfront, MO & IL	<u>47,668</u>	<u>20,904</u>	<u>68,572</u>
Subtotal	\$47,668	\$20,904	\$68,572
<u>Miscellaneous Activities (170)</u>			
American Heritage Rivers Initiative-14410	84,522	0	84,522
Interagency Water Resources Development-14713	25,123	0	25,123
Review of FERC Licences-53857	2,054	0	2,054
Special Investigations-17250	<u>15,485</u>	<u>0</u>	<u>15,485</u>
Subtotal	\$127,184	0	\$127,184
<u>Coordination Studies with Other Agencies (180)</u>			
Coordination with Other Water Agencies	1,908	0	1,908
PAS – Dardenne Creek	1,345	36,138	37,483
PAS – Negotiations	4,232	0	4,232
PAS- IL Alton Macro Model	57,828	45,447	103,275
Upper Kaskaskia Study	<u>48,046</u>	<u>4,907</u>	<u>52,953</u>
Subtotal	\$113,359	\$86,492	\$199,851
TOTAL (Category 100)	\$288,211	\$107,396	\$395,607
COLLECTION AND STUDY OF BASIN DATA (Category 200)			
<u>Flood Plain Management Services (250)</u>			
Flood Plain Management Services (250)-82030, 82040, 82045	29,194	0	29,194
SS Peruque Creek – Special Flood Hazard (250)-125244	969	0	969
FPMS HEC-RAS Class (250)-144819	16,296	0	16,296
Hydrology Studies (260)-53820	<u>11,987</u>	<u>0</u>	<u>11,987</u>
TOTAL (Category 200)	\$140,271	0	\$140,271
PRECONSTRUCTION ENGINEERING AND DESIGN (Category 600)			
Chesterfield, MO-10457	34	418	452
River des Peres, MO-12638	103,149	57,275	160,424
Wood River Levee, IL-10524	11,370	11,228	22,598
St. Louis Flood Protection, MO-17360	<u>342,971</u>	<u>73,733</u>	<u>416,704</u>
TOTAL (Category 600)	\$457,524	\$142,654	\$600,178
GRAND TOTAL INVESTIGATIONS	\$886,006	\$250,050	\$1,136,056

ROCK ISLAND, IL, DISTRICT

This district comprises most of the northern half of Illinois, portions of southern Wisconsin, southern and southwestern Minnesota, eastern and central Iowa, and northeastern Missouri, embraced in drainage basin of Mississippi River and its eastern and western tributaries between mile 300 (above mouth of Ohio River) and 614, and of its eastern tributaries only, between

Hamburg Bay, at mile 261 and 300. This district also includes the Illinois Waterway above mile 80 with its tributaries and drainage basins. The section of the Mississippi River between river miles 300 and 614 is included in the report on Mississippi River between Missouri River and Minneapolis, MN.

IMPROVEMENTS

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Navigation

1. ILLINOIS AND MISSISSIPPI CANAL, IL

Location. This canal extends for 75 miles from the Illinois River near LaSalle, IL, to the Mississippi River at Rock Island, IL. A feeder canal, 29 miles in length, extends from the summit level of the canal to the Rock River at Rock Falls, IL.

Existing project. See pages 1306-1308 of Annual Report for 1962 for details regarding project. The canal was constructed in the period 1892-1918. The canal has not been operated for navigation since June 1951 in accordance with Corps policy to discontinue operation of waterways affording little or no benefit to navigation. The River and Harbor Act of 1958 authorized the appropriation of \$2,000,000 for the purpose of placing the canal in proper condition for public recreational use and to convey and transfer the canal to the State of Illinois as part of the State park system.

The repair and modification program was initiated in 1961, and a number of canal features have been repaired or modified. In connection with this program, fee title of 1,062 acres and recreational flowage easements over 309 acres of land in Rock River at Rock Falls, formerly under navigation flowage easement, have been acquired. The State of Illinois accepted title to the canal as of August 1, 1970. The River and Harbor Act of 1970 authorized the additional appropriation of \$6,528,000 to be expended for the repair, modification, and maintenance of bridges, title transfer, modification or rehabilitation of hydraulic structures, fencing, clearing auxiliary ditches, and for the repair and modification of other canal property appurtenances.

The repair and modification work was underway until a suit was filed by three Illinois counties and their Commissioners of Highway against the Federal Government and the State in 1974 over maintenance of highway bridges crossing the canal. After the lawsuit was filed, further rehabilitation work by the Federal Government on the canal was suspended.

On November 4, 1981, the Corps of Engineers deposited \$3,722,572 with the Clerk of the U.S. District Court in Chicago in full satisfaction of the Court's judgment. These funds were used by the counties to complete rehabilitation work as directed in the court order. Rehabilitation work by the Federal Government in coordination with the state was

resumed in 1984 with the remaining authorization expended in 1987.

The Water Resources Development Act of 1986 authorized an additional appropriation of \$8,472,000 to accomplish the work described in the 1970 River and Harbor Act.

The State of Illinois filed an additional lawsuit against the United States on July 6, 1987 in the U.S. Claims Court in the amount of \$8,472,572. In a preliminary decision on September 22, 1988, the court dismissed the claim for \$3,722,572. A settlement agreement between the State of Illinois and the United States was signed on November 14, 1991. The agreement provided that Illinois release all claims against the United States as stipulated in the claims court and that the United States provide \$4,750,000 to Illinois as reimbursement for previous repair work performed upon the canal bridges by Illinois. On December 16, 1991, the U.S. Claims Court entered a judgment for \$4,750,000 in favor of the State of Illinois. This judgment was paid in FY 92.

Once funds are received, principal work features to restore the canal to acceptable conditions consist of the repair or reconstruction of retaining walls, embankments, portions of the lock and dam structures, culverts, drainage ditches, and other related work features which the United States has maintained or has been obligated to maintain under previous agreements. These features are consistent with a Master Management Plan prepared by the Illinois Department of Conservation. NEPA documentation to assess remaining work items must be completed prior to initiation of construction.

Local cooperation. A revised Supplemental Agreement with all work items remaining was executed between the state of Illinois and the Federal Government in April 1996.

Operations during fiscal year. Operations and maintenance during fiscal year. There were no programmed dollars allotted for this project in FY 07.

2. ILLINOIS WATERWAY, IL AND IN

Location. Illinois River (entirely within State of Illinois), formed by confluence of Kankakee and Des Plaines River, flows southwesterly and enters the Mississippi River at Grafton, IL, about 38 miles above St. Louis. Illinois Waterway comprises Illinois River from its mouth to confluence of Kankakee and

ROCK ISLAND, IL, DISTRICT

Des Plaines Rivers (273 miles), Des Plaines River to Lockport (18.1 miles) and Chicago Sanitary and Ship Canal and South Branch of Chicago River to Lake Street, Chicago (34.5 miles). Also from a point 12.4 miles above Lockport, IL, waterway comprises Calumet-Sag Channel and Little Calumet and Calumet Rivers to turning basin 5, near entrance to Lake Calumet (23.8 miles); and Grand Calumet River from junction to 141st Street, deep (lake) draft navigation (9 miles) and to Clark Street, Gary, IN (4.2 miles).

Previous projects. For details, see page 1945 of Annual Report for 1915 and page 1172 of Annual Report for 1932.

Existing project. See Table 23-K and page 1255 of Annual Report for 1963. Cost of new work was \$124,041,436 and includes \$445,000 for Recreation Facilities under Code 711. Calumet-Sag Modification, Part III, placed in the deferred-for-restudy category in March 1972, cost of \$33,000,000 (July 1971) Federal and \$20,700,000 (July 1971) non Federal; is excluded from present cost estimate. Land acquired for the project consisted 909.407 acres in fee and 701.48 acres in easement. See Table 23-B for authorizing legislation.

(See Table 15-J through 15-N on existing locks and dams; lock and dam construction, foundations, cost; additional features entering into cost of project; existing project and total cost of existing project.)

Local cooperation. Complied with for completed modifications and Part I of Calumet-Sag Modification.

All pools above Alton Pool:

Maintenance: Mechanical dredging was performed in Peoria Pool, Marseilles Pool, Starved Rock Pool, Dresden Pool, Brandon Road Pool, and LaGrange Pool for a total of 69,338 cubic yards of material being removed. Continuing maintenance contract repairs includes Maneuver Boat/Wicket Lifter Barge, Peoria Lock and Dam Hydraulics, and Multi-Site Facility Protection Upgrades.

Operation and Care: Locks and Dams were operated as required and necessary repairs were made to those and appurtenance structure. Other studies, reports and miscellaneous engineering work were also accomplished.

Operation and Maintenance costs were to Rock Island District were \$31,258,923 with credit to the

project of \$10,867; primarily as a result of collections from towboat companies for damages to navigation structures.

Rehabilitation Project: The Lockport Upper Pool, on the Illinois Waterway just Southwest of Chicago, a perched pool (38 feet above surrounding area), with a roughly forty-five (45) foot high embankment, on the right descending bank and concrete guide walls on the left descending bank, is a "Dam Safety" issue. The embankment requires significant repairs and rehabilitation to ensure continued structural integrity, continued retention of navigation pool, stability of the embankments and substructures, safe access to the hydropower plant, continued safe use of the controlling works, and avoids downstream flooding in the event of failure. This project received \$4,200,000 in FY 07 to initiate design for the rehabilitation. These funds were obligated against a cutoff wall base contract for a test section of 300 feet, (\$3.4 million) with options for the remaining three-fourths of a mile. Total rehabilitation costs for FY 07 were \$1,119,894. The expenditures went towards specifications and plans for the \$3,400,000 base contract and \$25,400,000 total, cutoff wall, contract and to complete dam safety interim measures such as tree clearing and monitoring of the 1.5-mile dike.

Costs to the Rock Island District were \$31,258,923 for operation and maintenance.

Alton Pool Operation: Costs for the year were \$37,348 for management of natural resources; \$125,950 for water control management; and \$195,760 for studies and surveys. Total operation costs were \$359,058.

Alton Pool Maintenance: Maintenance costs for the year included \$703,898 for dredging and \$43,994 for dredge surveys. Total maintenance costs were \$823,362.

Total operation and maintenance costs for all pools above Alton Pool were \$31,258,923. Alton Pool operation and maintenance costs were \$1,182,420. Total costs incurred were \$32,441,343.

3. MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS, MN

For report on this improvement, see chapter on "Mississippi River between Missouri River and Minneapolis, MN."

4. UPPER MISSISSIPPI RIVER – ILLINOIS WATERWAY SYSTEM NAVIGATION STUDY IL, IA, MN, MO, AND WI

Location. The program area comprises the Upper Mississippi River System, as defined by Congress in the Water Resources Development Act of 1986 (WRDA 1986), which includes the Upper Mississippi River from Minneapolis, Minnesota, to Cairo, Illinois; the Illinois Waterway from Chicago to Grafton, Illinois; and navigable portions of the Minnesota, St. Croix, Black and Kaskaskia Rivers. This multi-use resource supports an extensive navigation system (made up of 1200 miles of 9 foot channel and 37 lock and dam sites), a diverse ecosystem (2.7 million acres of habitat supporting hundreds of fish and wildlife species), floodplain agriculture, recreation and tourism. Based on the recommendation of the recently completed UMR-IWW System Navigation Feasibility Study that examined system needs over the next 50 years, the Navigation and Ecosystem Sustainability Program (NESP) was implemented to achieve the dual purposes of UMRS ecosystem restoration and navigation improvements.

Existing project. The Upper Mississippi River-Illinois Waterway System Navigation Study was completed in Sept 2004 after more than 14 years of intensive study and evaluation of the navigation improvement and ecological restoration needs for the UMR-IWW system for the years 2000-2050. The system is a vital part of our national economy and a valuable ecological resource. The 1200 miles of 9' foot channel created by the 37 lock and dam sites allow waterway traffic to move from one pool to another providing an integral regional, national, and international transportation network. The system is significant for certain key exports and the Nation's balance of trade. For example, in 2000, the Upper Mississippi River System carried approximately 60 percent of the Nation's corn and 45 percent of the Nation's soybean exports. The UMRS ecosystem consists of 2.7 million acres of bottomland forest, islands, backwaters, side channels and wetlands—all of which support more than 300 species of birds, 57 species of mammals, 45 species of amphibians and reptiles, 150 species of fish, and nearly 50 species of mussels. More than 40 percent of North America's migratory waterfowl and shorebirds depend on the food resources and other life requisites (shelter, nesting habitats, etc.) that the system provides. It also provides boating, camping, hunting, trapping and other recreational opportunities. The resulting study final recommendation includes a program of

incremental implementation and comprehensive adaptive management to achieve the dual purposes of ensuring a sustainable natural ecosystem and navigation system.

Local cooperation. None required.

Operations during fiscal year. FY 07 activities were focused on the continuation of the 34 projects that began PED activities in February 2005. These PED project activities were selected and designed to support the broad-based implementation specified in the Final Recommended Plan, including initiating design for small-scale navigation improvements (mooring cells, buoys, and switchboats); initiating design for two new 1,200-foot locks at Lock and Dam 25 and Lock and Dam 22 (minimal start on La Grange); conducting environmental mitigation studies; supporting research into nonstructural improvements and demand forecasting tools; developing plans for ecosystem restoration adaptive management; initiating design of fish passage projects; initiating planning for dam point control at Lock and Dam 25; and initiating design for several habitat restoration and flood plain restoration projects. Large-scale navigation and ecosystem projects are most likely still 2 years away from major construction. Expenditures during FY 07 were \$12,808,928, and obligations were \$13,587,578.

5. OTHER AUTHORIZED NAVIGATION PROJECTS

See Table 15-C.

Ecosystem Restoration

6. ILLINOIS RIVER BASIN RESTORATION

Location: The project area is the Illinois River Basin defined as the Illinois River, Illinois, its backwaters, its side channels, and all tributaries, including their watersheds, draining into the Illinois River.

Existing project: The purpose of the Illinois River Basin Restoration project is to restore and protect the Illinois River Basin through the development of a restoration program, long-term resource monitoring program, computerized inventory and analysis system, and innovative dredging technology and beneficial use of sediments. These efforts are part of the State's Illinois Rivers 2020 initiative, a proposed 20-year, \$2.5 billion, Federal-state effort to restore and enhance the Illinois River Basin. The project involves four districts (Rock Island, St. Louis, Chicago and Detroit).

A major initial focus is work on Critical Restoration Projects. Restoration of the Illinois River Basin requires the identification and implementation of projects, within the watershed and along the course of the river that repair past and ongoing ecological damage so that a more highly functioning, self-regulating ecosystem can be sustained within the existing basin context. Critical Restoration Projects will produce immediate habitat and sediment reduction benefits; will help evaluate the effectiveness of various restoration methods prior to application system wide; and make best use of the current strong local and State interest in ecosystem restoration within the basin. The Corps of Engineers will implement these Critical Restoration Projects in collaboration with the non-Federal sponsor and other Federal and local agencies. Currently sixteen Critical Restoration Projects are in various states of completion. These projects include: Peoria Riverfront Upper Island, Pekin Lake Northern Unit, Pekin Lake Southern Unit, Waubonsie Creek, Blackberry Creek, Kankakee River, Iroquois River, McKee Creek, Starved Rock Pool, Alton Pool, LaGrange Pool, Senachwine Creek, Tenmile Creek, Crow Creek West, Fox River-Batavia Dam, and Yellow River.

Critical Restoration Projects: Projects have been initiated at 16 locations in the river basin.

Operations during fiscal year: The Illinois River Basin Restoration Comprehensive Plan was approved by HQUSACE in May 2007 and culminates a multiagency collaborative planning process that led to a restoration recommendation to be implemented across numerous agencies and authorities. Feasibility work has continued on the 16 critical restoration projects. The Blackberry Creek, Starved Rock Pool, Senachwine Creek, and Alton Pool projects have all made significant progress and are currently evaluating restoration alternatives and developing costs. The Illinois River Basin encompasses four Corps Districts and two Divisions. Critical restoration project work is being conducted by these Districts and in particular, Yellow River, which is in Indiana, represents an opportunity to broaden the sponsorship of the program to another state.

7. UPPER MISSISSIPPI RIVER RESTORATION (UMRR)

Location. The project is authorized for those river reaches having commercial navigation channels on the Upper Mississippi River, Illinois River, Minnesota River, St. Croix River, and Kaskaskia River in the states of Illinois, Iowa, Minnesota, Missouri, and Wisconsin.

Existing project. The purpose of the UMRR as stated in the authorizing legislation is to ensure the coordinated development and enhancement of the Upper Mississippi River system, recognizing its several purposes. The program includes habitat rehabilitation and enhancement projects (HREP) and long-term resource monitoring (LTRMP). HREPs improve habitat through site-specific modifications of the natural landscape, and LTRMP monitors certain natural resource changes and conducts research as a means for more informed management of the UMRS. Also authorized was a study of the economic impacts of completed recreation, completed navigation traffic monitoring, and recreation projects (currently unfunded). The program was initiated in 1986 utilizing funds provided by PL 99-88, FY 1985 Supplemental Appropriation Act. PL 99-662, Water Resources Development Act of 1986, further defined the program and provided for a 10 year implementation period and was extended to 15 years by PL 101-640, Water Resources Development Act of 1990. The Water Resources Development Act of 1999, P.L. 106-53, amended the previous authority by deleting recreation as a project purpose; removing the sunset provision; increasing annual appropriation limits available to the program; authorizing an independent technical advisory committee; and requiring submission of a report to Congress on a 6 year cycle that evaluates programs, accomplishments, assesses systemic habitat needs, and identifies any needed changes to the Program authorization.

Local cooperation: Local cooperation agreements are obtained for habitat projects for such projects not located on lands managed as a national wildlife refuge, within the meaning of Section 906(e) of the 1986 WRDA. WRDA 1999 establishes a cost sharing percentage of 35 percent for such projects.

Operations during fiscal year. Expenditures during the year totaled \$14,466,844. The majority of funds was expended on two primary program elements: habitat projects and long term resource monitoring. FY 07 funds were used for construction on 7 habitat projects and for design activities on 16 additional habitat Projects, as well as applied research and long term resource monitoring. Construction has essentially been completed on a total of 50 projects (with many multiple phases) since the program was initiated. Data collection, analysis of data and production of technical and special reports was continued by contract with the Upper Midwest Environmental Sciences Center in Lake Onalaska, WI. The first report to Congress detailing the

programs activities since the programs inception was completed and was submitted to Congress in January 1998. The second report to Congress is currently under review. A Habitat Needs Assessment was submitted to Congress in Sep. 2000. This assessment addressed the ecosystem needs along the UMRR's reaches of the Upper Mississippi River.

Flood Control

8. CORALVILLE LAKE, IA

Location. Coralville Lake is formed by the Coralville Dam on the Iowa River, several miles upstream from Iowa City, Johnson County, IA, about 83 miles above the confluence of the Iowa River with the Mississippi River.

Existing project. See page 28-4, Annual Report for 1981, for project details. Construction began in July 1949 and the project has been in operation since February 1958. About 25,035.76 acres in fee of land were acquired and 3,673.113 acres in flowage easements. The project was modified to provide for construction of a highway bridge crossing the lake at the Mehaffey site, which was begun in June 1964 and completed in October 1966. See Table 15-B for authorizing legislation.

Operations during fiscal year. Total FY 07 operation and maintenance costs at Coralville Lake were \$3,132,883.

9. DES MOINES RECREATIONAL RIVER AND GREENBELT, IA

Location. The Greenbelt Project area is located along the Des Moines, Boone, and Raccoon Rivers in central Iowa. Fort Dodge, IA, marks the upstream limit of the project area; the downstream terminus of the project area is Harvey, IA, a total distance of 170 river miles. The boundary includes portions of nine counties and many other communities, along with a number of Federal, state, county, and local parks. Two major Corps of Engineers reservoirs, Saylorville Lake and Lake Red Rock, are located within the Greenbelt Project area. The boundary encompasses an area of roughly 410,000 acres.

Existing project. The Des Moines Recreational River and Greenbelt Project was authorized on August 15, 1985, by Public Law 99-88, the 1985 Supplemental Appropriations Act. Legislation pertaining to the Greenbelt project has been contained in numerous other pieces of legislation culminating most recently in the 2005 Energy and Water

Development Appropriations Act, Public Law 108-137.

As authorized by Public Law 99-88, the project will include: (1) the construction, operation, and maintenance of recreational facilities and streambank stabilization structures; (2) maintenance of all structures constructed before the date of authorization of this project; (3) tree plantings, trails, vegetation, and wildlife protection and development for recreational purposes; and (4) the prohibition or limitation by the Secretary of the killing, wounding, or capturing at any time of any wild bird or animal in such areas as may be directed by the Secretary.

The authorization further requires that an Advisory Committee be established for consultation with the Department of the Army consisting of 47 members. The composition of the Advisory Committee is as follows: three Corps of Engineers appointees, one person from each incorporated municipality, two from each of the nine counties, and five from the State of Iowa. See Table 15-B for authorizing legislation. Twelve Federally funded projects were completed under the Greenbelt authority prior to FY 02, and the total number of projects completed to date are 14. Congress has appropriated funds in FY 03 through FY 06 to develop priority Greenbelt projects. The Greenbelt Advisory Committee has recommended development of the following priority projects: Fort Dodge Riverfront and Trails, Des Moines Riverwalk, Des Moines Amphitheater Modification, and the Cordova Center on the Rock and the Red Rock Multipurpose Trail Segment 4B. Both of the two latter projects are located at Lake Red Rock.

Local cooperation. Cost-sharing agreements will be executed for those projects not located at Lake Red Rock or Saylorville. Letters of Assurance have been received for the cost-shared projects recommended for inclusion in the Greenbelt by the 2005 Annual Program Management Report.

Operations during fiscal year. FY 07 funds were used to continue coordination with the Advisory Committee; prepare Engineering Documentation Reports for Des Moines, Fort Dodge, and Cordova Center at Lake Red Rock; prepare plans and specifications for Trail Segment 4b at Lake Red Rock; construct the Simon Estes Amphitheater ADA Modifications; and complete a portion of the 4B trail segment at Lake Red Rock. Costs incurred in FY 07 were \$2,942,830.

10. RED ROCK DAM AND LAKE RED ROCK, IA

Location. The site of this project is on the Des Moines River, chiefly in Marion County, but extending into Jasper, Warren, and Polk Counties. The dam is 142.9 miles above the mouth of the Des Moines River, which empties into the Mississippi River at mile 361.4 above the mouth of the Ohio River. The city of Des Moines lies northwesterly from the site, about 60 miles upstream.

Existing project. See page 28-6, Annual Report for 1981 for description of the project. Construction began in May 1960, and the dam was placed in beneficial use for storage of flood water in January 1969. Land acquired for the project consisted of 50,207.860 acres in fee and 26,353.645 acres in flowage easement. Landowner complaints, that lake operation have flooded their lands more frequently than what they were told to expect when flowage easements were initially acquired, led Congress to modify the project authorization. Language in PL 99-190 authorizes acquisition from willing sellers fee simple title in real property, which is subject to periodic flooding in connection with the operation of the project. Potentially there are approximately 1,000 tracts consisting of about 30,000 acres. Estimated Federal cost is \$43,500,000. See Table 15-B for authorizing legislation.

Local cooperation. None required.

Operations during fiscal year. Contract maintenance repairs to the Tainter Gate Controls and Limit Switches were completed. Total operations and maintenance costs during FY 07 were \$4,044,386.

11. SAYLORVILLE LAKE, IA

Location. The project site is chiefly in Polk County, IA, but portions extend into Dallas and Boone Counties. The dam is about 213.7 miles above the mouth of the Des Moines River and about 5 miles upstream from the city of Des Moines, IA.

Existing project. The dam is an earth embankment 6,750 feet long at crest with a height of 120 feet. Outlet works are a single circular concrete conduit, 22 feet in diameter, located at the toe of the west bluff. Control structure is at upstream end of

conduit and uses three gates. A stilling basin is provided to dissipate energy of discharge from outlet conduit. Spillway is in the west bluff, weir 430 feet long. Water flows over the spillway which discharges into a paved chute and thence into an excavated earth channel to the Des Moines River. Top of spillway is about 31 feet below top of earth embankment section, and flow over weir is uncontrolled when water in reservoir reaches its crest. Watershed area above dam site is 5,823 square miles. With pool at spillway crest elevation, lake area is 16,700 acres and contains about 676,000 acre-feet of water at that height (602,000 for flood control and 74,000 for a conservation pool to maintain minimum flows at downstream points). Lake supplements capacity of downstream Lake Red Rock at river mile 142.9. The two lakes provide a high degree of flood protection to the lower Des Moines River Valley. Reach along the Mississippi River downstream from the mouth of the Des Moines River are also benefited.

A project modification plan to minimize the adverse environmental effects at Ledges State Park, located upstream from the dam, was authorized in 1976. The project modification included relocation of affected park facilities, acquisition of additional park land, and the development of a floodway corridor, with recreational facilities, from the dam downstream to Sixth Avenue in Des Moines. Improvements to Highway 415, the main access road to existing facilities on the east side of the reservoir, were added to the project by Congress in 1984. Segments A and B of Highway 415 have been completed. Segment C of Highway 415 was completed in 1994.

Construction began in June 1965, and the dam was placed in operation for the storage of flood water in April 1977. Remedial work in Big Creek Valley, consisting of diversion dam and channel and a barrier dam, for the protection of the town of Polk City was completed in December 1974. The land acquisition program involved 25,529.397 acres in fee and 1,498.444 acres in flowage easements. The estimated project cost is \$116,470,000 including \$2,820,000 in non-Federal costs from the State of Iowa and the City of Des Moines, for recreational development. See Table 15-B for authorizing legislation.

Local cooperation. Fully complied with.

Operations during fiscal year. Total FY 07 operations and maintenance costs were \$4,120,524. Non-Federal costs for FY 07 were \$50,506.

12. INSPECTION OF COMPLETED FLOOD CONTROL PROJECTS

Federal flood control regulations (part 208 of title 33, Code of Federal Regulations) provide that the structures and facilities constructed by the United States for local flood protection shall be continuously maintained in such a manner and operated at such times and for such periods as may be necessary to obtain the maximum benefits. Costs during the period for inspections of projects turned over to local interests to ascertain compliance with Federal requirements were \$335,045. (See Table 15-H for list of completed flood control projects inspected.)

13. OTHER AUTHORIZED FLOOD CONTROL PROJECTS

See Table 15-E.

14. FLOOD CONTROL WORK UNDER SPECIAL AUTHORIZATION – Continuing Authorities Program

Emergency Bank Protection (Section 14 of the 1946 Flood Control Act, Public Law 526.) See Table 15-1.

Flood Control Activities (Section 205, Public Law 84-685.) See Table 15-I.

Snagging and Clearing of Navigable Streams and Tributaries in Interest of Flood Control (Section 208, Public Law 83-780.) See Table 15-I.

Miscellaneous

15. ECOSYSTEM RESTORATION WORK UNDER SPECIAL AUTHORIZATION

Project Modifications for Improvement of Environment Pursuant to Sec. 1135, Public Law 99-662, as amended (preauthorization). See Table 15-I.

Aquatic Ecosystem Restoration Pursuant to Sec. 206, P.L. 104-303. See Table 15-I.

Wetland/Other Aquatic Habitat Section 204, P.L. 102-560. See Table 15-I.

16. GENERAL REGULATORY FUNCTIONS

Enforcement	\$ 60,013
Permit Evaluations	2,426,981
Compliance	<u>200,775</u>
Total	\$2,687,770

17. OPERATIONS AND MAINTENANCE CATASTROPHIC DISASTER PREPAREDNESS PROGRAM

National Preparedness	<u>\$102,302</u>
Total	\$102,302

18. OTHER PROGRAMS AND ACTIVITIES

No FY 07 expenditures.

19. FLOOD CONTROL AND COASTAL EMERGENCY (FC&CE)

Disaster Preparedness Program	\$ 584,737
Emergency Operations	543,049
Rehabilitation/Inspection	<u>57,644</u>
Total	\$1,185,430

20. ACTIVE INVESTIGATIONS

See Table 15-O.

21. COLLECTION AND STUDY OF BASIC DATA

See Table 15-O.

22. PRECONSTRUCTION ENGINEERING AND DESIGN

There were four PED projects in progress during FY 07 at a cost of \$147,116 for Davenport Flood Control project and \$328,048 for Des Moines and Raccoon, \$12,808,928 for Upper Mississippi River – IL Waterway System Navigation Study, IL, IA, MN, MO, and WI and \$22,387 for Peoria Riverfront Development. Non-Federal cost to Davenport Flood Control \$23,860, Des Moines and Raccoon \$75,591.

ROCK ISLAND, IL, DISTRICT

TABLE 15-A COST AND FINANCIAL STATEMENT

Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Cost to Sep. 30, 07
Illinois and Mississippi Canal, IL	New Work:					
	Approp.	0	0	0	0	7,605,143
	Cost	0	0	0	0	7,605,143
	Maint:					
	Approp.	0	0	0	0	24,154,167
	Cost	0	0	0	0	24,154,257
Illinois Waterway IL and IN	New Work:					
	Approp.	0	0	0	0	126,707,751
	Cost	0	0	0	0	126,706,419
	Maint:					
	Approp.	22,527,551	31,205,530	27,753,000	24,969,000	559,336,765
	Cost	21,788,176	31,363,531	20,141,596	31,258,923	557,318,526
	Rehab:					
	Approp.	-58,570	0	500,000	4,200,000	170,814,869
	Cost	16,570	0	98,832	1,119,894	177,004,849
	Inland Water Trust Fund:					
Approp.	-58,570	0	0	0	15,160,249	
Cost	-16,570	0	0	0	14,291,599	
Upper Mississippi River – Illinois Waterway System IL, IA, MO, MN & WI	New Work:					
	Approp.	4,200,974	752,000	0	-1,280	74,288,720
	Cost	4,121,857	836,909	-1,280	0	49,095,263
	PED:					
	Approp.		10,400,000	9,900,000	14,001,280	34,301,280
	Cost-Ped		10,221,283	9,328,888	12,808,927	32,359,098
Illinois River Basin Restoration	New Work:					
	Approp.	229,000	178,000	0	0	606,000
	Cost	370,094	181,257	30,828	0	605,340
	Contributed Funds					
Approp.	0	0	2,500,000	0	5,200,000	
Cost	86,754	0	0	189,206	608,515	
Upper Mississippi River Restoration (UMRR) IL, IA, MN, MO, WI 1/	New Work:					
	Approp.	14,782,000	15,547,000	19,799,000	21,894,000	319,074,758
	Cost	14,734,815	15,608,927	15,078,247	14,439,477	306,771,359
	Contributed Funds:					
	Approp.	29,157	0	77,269	0	2,345,829
	Cost	10,000	11,566	49,872	27,397	2,286,771
Coralville Lake, IA	New Work:					
	Approp.	0	0	0	0	30,179,488
	Cost	0	0	0	0	30,173,702
	Maint:					
	Approp.	3,022,309	3,483,400	2,242,000	3,179,872	74,874,145
	Cost	3,010,359	3,396,905	2,305,492	3,132,883	74,761,335

**TABLE 15-A COST AND FINANCIAL STATEMENT
(Continued)**

Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Cost to Sep. 30, 07
Des Moines Recreational River and Greenbelt, IA	New Work:					
	Approp.	1,911,000	2,869,000	4,950,000	1,190,000	25,006,000
	Cost	1,723,477	2,642,952	3,016,791	2,942,830	24,102,461
	Contributed Funds:					
	Approp.	15,012	375,665	165,360	0	2,113,886
	Cost	95,977	70,705	390,477	0	2,001,714
Red Rock Dam and Lake Red Rock, IA	New Work:					
	Approp.	0	0	0	0	13,712,500
	Cost	0	0	0	0	11,098,746
	Maint:					
	Approp.	4,013,253	3,840,300	3,199,000	3,992,500	103,845,985
	Cost	4,347,047	3,821,498	2,952,528	4,044,386	103,582,101
	Contributed Funds:					
	Approp.	0	0	0	0	36,561
	Cost	0	0	0	0	35,133
	Saylorville Lake, IA	New Work:				
Approp.		0	0	0	0	128,067,887
Cost		0	0	0	0	127,872,466
Maint:						
Approp.		4,300,784	4,407,200	4,012,000	4,182,578	103,458,535
Cost		4,302,260	4,332,630	4,035,624	4,120,524	103,277,253
Contributed Funds:						
Approp.		9,445	9,445	0	0	3,642,891
Cost	45,666	0	0	0	3,389,981	

1. UMRR Federal and non-Federal dollars corrected thru Total Cost to Sep 2006.

ROCK ISLAND, IL, DISTRICT

**TABLE 15-C OTHER AUTHORIZED NAVIGATION PROJECTS
(See Section 5 of Text)**

Project	Status	For Last Full Report See Annual Report For	Cost To September 30, 2007	
			Construction	Operation and Maintenance
Hannibal SBH, MO	Completed	1958	\$ 108,700	\$201,685
Fort Madison, IA SBH	Active	2004	0	48,600
Squaw Chute at Quincy, IL	Completed	1967	70,979 ¹	9,345
Muscooten Bay, Illinois River, IL	Completed	1985	265,499	171,000
Quincy, IL, Harbor Access Channel	Completed	1970	35,477 ²	37,700
Muscatine Harbor, IA	Completed	1964	\$353,000	\$356,061

1. Excludes \$25,851 contributed funds.
2. Excludes \$35,350 contributed funds.

TABLE 15-E OTHER AUTHORIZED FLOOD CONTROL PROJECTS
(See Section 13 of Text)

Project	For Last Full Report See Annual Report For	Construction	Cost To September 30, 2007	
			Operation and Maintenance	Contributed Funds Expended
Completed Projects				
Banner Special Drainage and Levee Districts, IL	1943	\$ 247,822	--	--
Bear Creek Dam (City of Hannibal, MO)	1962	1,679,056	--	--
Bettendorf, IA	1987	14,930,085	--	\$ 228,073
Big Lake Drainage and Levee District, IL	1943	144,910	--	--
Canton, MO ¹	1964	1,496,555	--	--
Clinton, IA	1991	26,237,690	--	839,615
Coal Creek Drainage and Levee District, IL	1954	1,923,145	--	--
Crane Creek Drainage and Levee District, IL	1941	68,898	--	--
Des Moines and Mississippi Levee District No. 1, MO	1969	1,492,016	--	--
Des Moines, IA	1972	4,993,224	--	23,323
Drury Drainage District, IL	1964	1,144,875	--	--
Dubuque, IA	1974	10,861,170	--	145,415
East Liverpool Drainage and Levee District, IL	1941	207,826	--	--
East Moline, IL	1984	9,692,097	--	--
East Peoria Drainage and Levee District, IL	1946	279,963	--	--
Elkport, IA	1951	34,200	--	--
Evansdale, IA	1983	4,409,088	--	--
Fabius River Drainage District, MO	1941	60,500	--	--
Fabius River Drainage District, MO	1963	1,621,841	--	--
Farm Creek, IL ³	1997	9,859,020	6,725,628	--
Farmers Levee and Drainage District, IL	1942	155,562	--	--
Fulton, IL	1984	18,017,200	--	--
Galena, IL	1952	844,100	--	118,000
Green Bay Levee and Drainage District No. 2, IA	1949	299,000	--	--
Green Bay Levee and Drainage District No. 2, IA	1967	1,727,711	--	--
Gregory Drainage District, MO	1940	77,100	--	--
Gregory Drainage District, MO	1972	1,538,963	--	20,626
Hannibal, MO	1993	6,082,733	--	600,000
Henderson County Drainage District No. 1, IL	1968	1,453,217	--	--
Henderson County Drainage District No. 2, IL	1968	1,043,902	--	--
Henderson County Drainage District No. 3, IL	1949	42,700	--	--
Hennepin Drainage and Levee District, IL	1940	109,593	--	--
Hunt Drainage District and Lima Lake Drainage District, IL	1972	4,772,498	--	--
Indian Grave Drainage District, IL	1972	3,551,961	--	--
Iowa River-Flint Creek Levee District No. 16, IA	1972	6,044,693	--	--
Kishwaukee River at DeKalb, IL ¹	1957	123,300	--	--
Lacey Langellier, West Mantanzas and Kerton Valley Drainage and Levee District, IL	1954	1,290,000	--	--
Liverpool Drainage and Levee District, IL	1943	117,731	--	--
Louisa County Drainage District No. 13, IA	1970	3,293,276	--	220,000
Loves Park, IL	2006	21,762,286	--	1,852
Lost Creek Drainage and Levee District, IL	1938	152,000	--	--
Marengo, IA ¹	1981	2,447,001	--	--
Marion County Drainage District, MO	1967	873,748	--	--
Marshalltown, IA	1978	8,437,511	--	252,136
Mason and Menard Drainage District, IL	1940	93,808	--	--
Meredosia Levee and Drainage District, IL ¹	1977	1,995,322	--	269,739
Milan, IL	1988	13,437,663	--	213,554

ROCK ISLAND, IL, DISTRICT

**TABLE 15-E OTHER AUTHORIZED FLOOD CONTROL PROJECTS
(Continued)** (See Section 13 of Text)

Project	For Last Full Report See Annual Report For	Construction	Cost To September 30, 2007	
			Operation and Maintenance	Contributed Funds Expended
Muscatine, Mad Creek, IA ¹	1983	1,129,800	--	305,747
Muscatine Island Levee District and Muscatine Near Springfield on Sangamon River, IL	2004 1941	5,199,140 --	--	748,348 --
Oakford Special Drainage District, IL	1940	38,417	--	--
Okabena Creek at Worthington, MN ¹	1957	72,432	--	--
Ottumwa, IA	1977	233,145	--	--
Pekin and La Marsh Drainage and Levee District, IL	1955	158,383	--	--
Penny Slough, Rock River, IL	1940	85,800	--	--
Rock Island, IL	1979	7,582,373	--	--
Rockford, IL	1989	10,032,496	--	514,188
Rocky Ford Drainage and Levee District, IL	1941	108,797	--	--
Sabula, IA	1958	411,915	--	--
Sangamon River (Mouth), IL	1980	1,048,990	272,848	15,122
Seahorn Drainage and Levee District, IL	1945	32,281	--	--
Sid Simpson Project, IL	1968	5,789,800	--	--
Sny Basin, IL	1972	14,003,560	--	--
Sny Island Levee Drainage District, IL	1942	61,400	--	--
Sny Island Levee Drainage District, IL	1968	4,956,749	--	--
South Beardstown and Valley Drainage and Levee District, IL	1942	220,729	--	--
South Beardstown Drainage and Levee District, IL	1942	171,839	--	--
South Quincy Drainage and Levee District, IL	1940	61,200	--	--
South Quincy Drainage and Levee District, IL	1968	1,231,243	--	--
South Quincy Drainage and Levee District, IL	1991	7,066,437	--	2,355,479
South River Drainage District, MO	1941	55,300	--	--
South River Drainage District, MO	1966	1,106,056	--	--
Spring Lake Drainage and Levee District, IL	1941	185,980	--	--
Subdistrict No. 1 of Drainage Union No. 1 and Bay Island Drainage and Levee District No. 1, IL	1967	3,306,695	--	--
Union Township Drainage District, MO	1947	116,576	--	--
Van Meter, IA ¹	1965	113,842	--	--
Waterloo, IA	1987	48,620,099	--	83,300
Waterloo Bridges, IA	1991	1,125,000	--	1,108,787
Authorized Projects Not Constructed				
Davenport, IA	1987	--	--	--
Moline, IL ²	1987	--	--	--
Peoria, IL	1973	534,580	--	--

1. Authorized by Chief of Engineers (Sec. 205, 1948 Flood Control Act).
2. FY 89 funds of \$5,639 were expended to close out project.
3. Farm Creek O&M funds appropriated thru FY 07 is \$11,770,453.

TABLE 15-G DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report For	Date Deauthorized	Federal Funds Expended	Contributed Funds Expended
Ames Dam and Reservoir, Skunk River, IA	1987	2002	1,400,800	--
Cal.-Sag Channel, Part II Illinois Waterway, IL and IN	1986	1986	--	--
Campbells Island Mississippi River, IL	1969	1979	\$76,664	--
Carroll County Levee and Drainage District, IL	1938	1977	--	--
Central City Lake, Wapsipinicon River, IA	1970	1977	55,664	--
Farmers Drainage and Levee District (Sangamon River), IL	1942	1986	--	--
Green Island Levee and Drainage District, IA	1938	1977	--	--
Henderson River, IL	1964	1977	102,310	--
Illinois Waterway, IL and IN Duplicate Locks	1982	1981	--	--
Illinois Waterway Navigation Project (Pekin, IL)	1986	1986	--	--
Janesville and Indian Ford Dams, WI	1938	1977	--	--
Keithsburg Drainage District, IL	1938	1977	--	--
Pecatonica River at Darlington, WI	--	1977	--	--
Rochester Lake, Cedar River, IA	--	1977	--	--
Rock River Agricultural Levees, IL	1984	1999	858,000	--
South Beloit, IL	1979	1986	270,000	--
William L. Springer Lake Decatur, IL	1979	1986	--	--
Illinois Waterway, Marseilles Canal, IL	1989	1990	--	--
Peoria Levees, IL	--	1990	--	--
Savanna Small Boat Harbor	--	1999	--	--

ROCK ISLAND, IL, DISTRICT

TABLE 15-H

**INSPECTION OF COMPLETED
FLOOD CONTROL PROJECTS
(See Section 12 of Text)**

Project	Date Inspected
2 River Des Moines Co DD 7 & 8	November-05
Alpine Dam	September-06
Amana Remedial Works	December-06
Andalusia	March-07
Avon Lake	January-06
Banner Special Drainage and Levee District, IL	November-06
Bay Island Drainage and Levee District, IL	January-07
Bettendorf, IA	February-07
Big Lake Drainage and Levee District, IL	December-06
Burlington, IA	December-03
Burlington Northern Bott. LFT	January-07
Canton, MO	July-07
Carlisle	July-02
Carlisle Remedial Works	October-05
Cascade Levee	December-05
Cedar Falls, LF PP	November-05
Chandlerville, Village of	December-05
Cincinnati D & LD	January-05
City of Streator Municipal Levee	April-07
Clear Lake D & LD	April-07
Clinton, IA	June-07
Coal Creek Drainage and Levee District, IL	February-07
Crane Creek Drainage and Levee District, IL	November-07
Davenport, IA LFPP	December-05
DeKalb, IL	November-05
Des Moines, IA	November-07
Des Moines LFP	October-07
Des Moines and Mississippi Levee District No. 1, MO	April-07
Des Moines County DD7, IA	August-07
Des Moines County DD8, IA	August-07
Des Moines, Southeast – Southwest Pleasant Hill	January-06
Don Morrissey Levee	October-07
Doyle and Pottorf Levee	October-05
Drury Drainage District, IL	January-07
Dubuque, IA	June-07
East Dubuque	June-07
East Liverpool Drainage and Levee District, IL	December-06
East Moline, IL	August-07
East Peoria Drainage and Levee District, IL	June-07
East Peoria Sanitary District, IL	April-07
Effland D & LD	December-06
Elkader	April-06
Elkport, IA	June-07
Evansdale, IA	December-06
Fabius River Drainage District, MO	July-07
Farmdale-Farm Creek	March-06
Farmers Drainage and Levee District, IL	December-06
Fayette, City of Flood Protection Project	August-06
Fulton, IL	June-06
Galena, IL	April-07
Globe Drainage and Levee District	January-02
Greater Peoria Sanitary District	August-07
Green Bay Levee and Drainage District No. 2, IA	February-07
Green Island LD Roger Tarr	June-07
Gregory Drainage District, MO	June-07

**TABLE 15-H
(Continued)**

**INSPECTION OF COMPLETED
FLOOD CONTROL PROJECTS
(See Section 12 of Text)**

Project	Date Inspected
Hager Slough Special DD	August-07
Hamilton, IL	May-01
Hannibal, MO	October-07
Henderson County Drainage District No. 1, IL	April-07
Henderson County Drainage District No. 2, IL	April-07
Henderson County Drainage District No. 3	June-03
Herget Drainage and Levee District, IL	December-06
Hunt Drainage District & Lima Lake Drainage District, IL	June-07
Indian Grave Drainage District, IL	June-07
Indian Creek Levee District No. 2	September-03
Iowa River-Flint Creek Levee District No. 8, IA	July-01
Iowa River-Flint Creek Levee District No. 16, IA	August-07
Jackson, MN West Fork DM River	April-07
Keithsburg, IL	June-03
Kent Creek LFP	June-07
Keokuk Levee	April-07
Kerton Valley Drainage and Levee District, IL	December-06
Lacey Drainage and Levee District, IL	December-06
Langellier Drainage and Levee District, IL	December-06
Levings Lake Dam, IL	June-07
Lima DD, IL	April-07
Liverpool Drainage and Levee District, IL	December-06
Lost Creek Drainage and Levee District, IL	December-06
Louisa County LD No. 11	January-07
Louisa Drainage District No. 13	July-86
Loves Park Creek	June-07
Lower Pleasant Valley D & LD	June-07
Mackinaw River & DD No. 1	June-07
Muscatine, Mad Creek, IA	January-07
Marengo, IA	November-07
Marion County Drainage District, MO	June-07
Marshalltown, IA	January-07
Mason and Manard D & LD	December-06
Meredosia Levee and Drainage District, IL	August-07
Milan, IL	October-07
Mississippi – Fox DD	July-07
Moline, IL LFPP	August-03
Morrissey Levee	October-01
Mount Pleasant	January-07
Munzlinger, Elmer Levee	May-01
Murphy Levee	August-99
Muscatine Island LD & D	June-03
Niota, IL	June-01
North Sangamon Lattimore Creek	August-07
Okabena Creek Worthington	February-07
Oakford Special Drainage and Levee District, IL	February-07
Oelwein	April-07
Old River D & LD	August-07
Ottawa Township H.S. Levee	February-07
Ottumwa/Des Moines River	December-06
Page Park Dam, IL	June-07
Pekin-LaMarsh Drainage and Levee District, IL	December-06

ROCK ISLAND, IL, DISTRICT

**TABLE 15-H
(Continued)**

**INSPECTION OF COMPLETED
FLOOD CONTROL PROJECTS
(See Section 12 of Text)**

Project	Date Inspected
Penny Slough Drainage and Levee District, IL	June-07
Quincy, City of	May-01
River View Street, Bellevue, IA	December-95
Rock Island Arsenal	March-06
Rock Island, IL	August-07
Roddis	December-04
Sabula, IA	April-07
Sanitary District of Beardstown, IL	February-07
Savana Ordnance	July-98
Seahorn Drainage and Levee District, IL	November-06
SE Des Moines/SE Pleasant Hill	October-05
Sny Basin	April-60
Sny Island Levee Drainage District, IL	August-07
Snyder Levee	February-81
South Beardstown Drainage and Levee District, IL	February-07
South Branch Diversion Channel	June-07
South Quincy Drainage and Levee District, IL	April-07
South River Drainage District, MO	June-07
South Sangamon D & LD West	August-07
South Sangamon D & LD East	August-07
Spoon River No. 1	July-07
Spoon River Ranch & Roddis	December-06
Spring Lake Drainage and Levee District, IL	December-06
Subdistrict No. 1 of Drainage District Union No. 1 and Bay	January-07
Island Levee and Drainage District No. 1, IL	
Tama, IA	November-07
Tarr, Roger Levee	January-04
Thompson Drainage and Levee District	June-03
Union Township D & LD	April-07
Union Township Levee (Skunk River)	December-05
Valley Drainage and Levee District, IL	December-06
Van Meter, IA	December-06
Village of Liverpool Levee	March-07
Volga, IA	April-07
Waterloo, IA	July-07
West Des Moines RR/WC	May-07
West Matanzas Drainage and Levee District, IL	December-06
Wolf Creek	March-83
Zempel Mutual DD	November-07
Zuma-Canoe Special	June-07

TABLE 15-I FLOOD CONTROL WORK UNDER SPECIAL AUTHORIZATION

Project	Fiscal Year Costs		
	Federal Cost	Non-Federal	Total
Flood Control (Section 205, 1948 Flood Control Act, P. L. 858) (516)			
Coordination Account Section 205 – 062516	\$ 16,115		\$ 16,115
East Peoria, IL – 091606	3,379,932	\$1,842,620	5,222,552
Indian Creek, Cedar Rapids, IA – 181244	0		0
Little Maquoketa River, IA 185082	80		80
Mad Creek, Muscatine, IA – 150096	425,522		425,522
Manchester, IA – 176996	14		14
Maquoketa, IA - 181230	1,074		1,074
Time Creek Levee, IA 185004	13,478		13,478
Winnebago River, Mason City, IA- 184999	32,814		32,814
Wolf Creek, La Porte City, IA - 180457	0		0
Total	\$3,869,029	\$1,842,620	\$5,711,649
Emergency Bank Protection (Section 14 of 1946 Flood Control Act, P.L. 526) (517)			
City of Panora, Raccoon River , IA – 182500	\$6,066	\$0	\$6,066
Coal Creek, Albia, Monroe CO, IA – 185023	64,993		64,993
Coats Sewage Lagoon, IA – 160224	0		0
Coordination Account Section 14 – 062517	27,904		27,904
Highway 61, Fox River, MO – 182501	(16,871)	20,089	33,418
IA River, Iowa City, IA	7,998		7,998
Kiser Creek, New Canton, IL – 178113	28		28
Rock River Highway 64, IL – 167360	0		0
Sac & Fox Settlement, Tama, IA – 167361	6,766		6,766
Total	\$96,885	\$20,089	\$116,974
Snagging and Clearing (Section 208, 1954 Flood Control Act, P.L. 780) (518)			
Coordination Account Section 208 – 163815	\$0		\$0
Spoon River, IL 184977	1,617		1,617
Total	\$1,617		\$1,617
Project Modification to Improve Environment (Section 1135 P.L. 99-662) (722)			
Big Creek Lake Spillway Mod – 175183	\$0		\$0
Coordination Account Section 1135-062092	3,650		3,650
Oquawka Refuge Habitat Rest-096182	(14,934)	14,934	0
Total	\$(11,284)	\$14,934	\$3,650

ROCK ISLAND, IL, DISTRICT

**TABLE 15-I
(Continued)**

**FLOOD CONTROL WORK UNDER
SPECIAL AUTHORIZATION**

Project	Fiscal Year Costs		Total
	Federal Cost	Non-Federal	
Aquatic Ecosystem Restoration (Section 206, P.L. 104-303) (732)			
Coordination Account (Sec 206) – 062091	\$4,235		\$4,235
Clear Lake, IA – 180778	194,874		194,874
Duck Creek/Fairmount Rest – 167364	9,302		9,302
Emiquon Flood Plain Restoration- 171808	170,339		170,339
Freeborn County Eco Restor – 173832	0		0
Iowa River and Clear Creek, IA – 167430	3,347		3,347
Kankakee River, IL – 167429	15,348		15,348
Lake Belle View – 164774	6,715		6,715
Lake Koshkonong – 167368	203		203
Storm Lake Water Quality – 185046	161,897		161,897
Quincy Bay, IL -182211	36,503		36,503
Total	\$602,763	\$0	\$602,763
Wetland/Other Aquatic Habitat (Section 204, 1992 Flood Control Act, P.L. 102-560) (792)			
Blackhawk Bottoms Miss. River – 169021	\$19,935		\$19,935
Coordination Acct Section 204 – 163816	865		865
Total	\$20,800		\$20,800
TOTAL	\$4,579,810	\$1,882,643	\$6,457,453

TABLE 15-J

**ILLINOIS WATERWAY:
EXISTING LOCKS AND DAMS
(See Section 2 of Text)**

Lock	Miles Above Mouth	Miles to Nearest Town	Dimensions			Depth on Miter Sills at Low Water	
			Width of Chamber (feet)	Available Length for Full Width (feet)	Lift at Low Water ¹ (feet)	Lower (feet)	Upper (feet)
LaGrange Lock	80.2	7.8 below Beardstown, IL	110	600	10.0	13.0	15.5
Peoria Lock	157.7	4.1 below Peoria, IL	110	600	11.0	12.0	15.5
Starved Rock Lock	231.0	Utica, IL	110	600	18.5	14.0	16.8
Marseilles Lock	244.6	Marseilles, IL	110	600	24.45	14.0	18.6
Dresden Island Lock	271.5	8 above Morris, IL	110	600	21.75	12.25	16.85
Brandon Road Lock	286.0	Joliet, IL	110	600	34.0	13.8	17.85
Lockport Lock	291.1	Lockport, IL	110	600	30.5-39.5 ²	15.0	11.0-20.2 ²
T.J. O'Brien Lock	326.5	Chicago, IL	110	1,000	--	14.0	14.0

1. Lifts and depth on miter sills are those obtained with flat pools.
2. Variation in lift and depth on upper miter sill at Lockport is due to fluctuation of water surface in the sanitary district canal.

ROCK ISLAND, IL, DISTRICT

TABLE 15-K

**ILLINOIS WATERWAY, IL AND IN
LOCK AND DAM CONSTRUCTION,
FOUNDATIONS, COST
(See Section 2 of Text)**

Name	Lock		Dam			Year Complete	Estimated Federal Cost Under Existing Project
	Type of Construction	Character of Foundation	Kind	Type of Construction	Character of Foundation		
Illinois River, mouth to Utica; channel improvement by dredging in Illinois River below Starved Rock modification of two U.S. locks and dams, and removal of two State dams.	--	--	--	--	--	--	\$2,733,499 ¹
LaGrange	Concrete	Piles in sand	Movable (wicket with A-frame-crest)	Concrete and timber	Piles in sand	1939	\$ 2,744,592 ¹
Peoria	Concrete	Piles in sand	Movable (wicket type)	Concrete and timber	Piles in sand	1939	3,381,030 ¹
Starved Rock	Concrete	Rock	Movable (tainter gates)	Concrete and structural steel	Rock	1933	885,315 ¹
Marseilles	Concrete	Rock	Movable (tainter gates)	Concrete and structural steel	Rock	1933	1,853,725 ¹
Dresden Island	Concrete	Rock	Movable (tainter gates)	Concrete and structural steel	Rock	1933	2,503,376 ¹
Brandon Road	Concrete	Rock	Movable (tainter gates)	Concrete and structural steel	Rock	1933	2,031,683 ¹
Lockport	Concrete	Rock	Movable (Bear trap) (Bear trap)	Concrete and structural steel	Rock	1933	133,608 ¹
T.J. O'Brien	Concrete and sheet piling	Piles in clay	Fixed	Concrete and sheet piling	Piles in clay	1960	6,954,700 ¹

TABLE 15-K
(Continued)

ILLINOIS WATERWAY, IL AND IN
LOCK AND DAM CONSTRUCTION,
FOUNDATIONS, COST
(See Section 2 of Text)

Name	Lock		Kind	Dam		Year Complete	Estimated Federal Cost Under Existing Project
	Type of Construction	Character of Foundation		Type of Construction	Character of Foundation		
Lock and dam equipment	--	--	--	--	--	--	1,250,304 ¹
Total locks and dams	--	--	--	--	--	--	\$ 24,471,832

1. Actual cost.

TABLE 15-M ILLINOIS WATERWAY, IL AND IN EXISTING PROJECT

See Section in Text	Project	Item	Length (feet)	Width (feet)	Depth (feet)
2.	Illinois Waterway, IL and IN	Nine locks and six dams	--	--	--
		Grafton to Lockport, IL	291.1 miles	300	9
		Lockport to controlling works	2.0 miles	200-300	9
		Controlling works to junction with Calumet-Sag Channel	10.0 miles	225	9
		Calumet-Sag Channel to lock in Blue Island	16.0 miles	225	9
		Calumet and Little Calumet Channel, from Blue Island to turning basin 5	7.7 miles	300	9
		Grand Calumet River Channel from junction with Little Calumet River to and in Indiana Harbor Canal to 141st, East Chicago, IN	9.0 miles	9	--
		Also, Grand Calumet River Channel from junction of Indiana Harbor Canal and Grand Calumet River to Clark St. in Gary, IN, with a turning basin at Clark St.	4.2 miles	160	9
		A channel in Chicago Sanitary and Ship Canal and South Branch Chicago River from Sag-Junction to Lake St. in Chicago, IL	22.1 miles	175-300	9

ROCK ISLAND, IL, DISTRICT

TABLE 15-N

**ILLINOIS WATERWAY, IL AND IN
TOTAL COST OF EXISTING PROJECT
TO SEPTEMBER 30, 2007
(See Section 2 of Text)**

	New Work	Maintenance	Rehabilitation	Total
Regular Funds	\$120,886,748	\$611,432,670	\$156,685,126	\$768,117,796
Public Works Funds	3,960,735	--	--	3,960,735
Emergency Relief Funds	1,858,936	--	--	1,858,936
Total	\$126,706,419	\$611,432,670	\$156,685,126	\$773,937,467

1. Includes \$1,735,890 expended between 1927 and 1936 on the operation and care of the works of improvement under the provisions of the permanent indefinite appropriation for such purposes.

ST. PAUL, MN, DISTRICT

District comprises western Wisconsin, major portion of Minnesota, northern and eastern North Dakota, and small portions of northeastern South Dakota and northern and northeastern Iowa embracing drainage basins of Mississippi River and tributaries from its source to mile 614 above mouth of Ohio River;

Red River of the North and tributaries; those streams north of Missouri River Basin in North Dakota; and U.S. waters of Lake of the Woods and its tributaries. That section of Mississippi River above mile 614 is included in report on Mississippi River between Missouri River and Minneapolis, Minnesota.

IMPROVEMENTS

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Navigation

1. MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS, MN

For report on this improvement see chapter on Mississippi River between Missouri River and Minneapolis, Minnesota.

2. RESERVOIRS AT HEADWATERS OF MISSISSIPPI RIVER, MN

Location. Reservoirs are on the Mississippi River and several of its tributaries in Itasca, Beltrami, Hubbard, Aitkin, Cass and Crow Wing Counties, MN. (See Table 16-H on reservoirs.)

Previous projects. For details see page 1888 of Annual Report for 1915, and page 1098 of Annual Report for 1938.

Existing project. Provides for reconstruction from timber to concrete at Winnibigoshish, Leech Lake, Pokegama, Sandy Lake and Pine River Dams, and construction of a concrete dam at Gull Lake. Pokegama was built on bedrock and the others on pile foundations. A portion of Leech Lake Dam from piers 26 to 39 was replaced with an earth fill. Constructed three dikes at Winnibigoshish, four at Pokegama, two at Sandy Lake, and 16 at Pine River. Sandy Lake Dam includes a lock 160 feet long, 30 feet wide, with a maximum lift of 9.5 feet and a depth of 2.5 feet on lower sill at low water which was converted to use as a spillway. (See Table 16-B for authorizing legislation.) The Pine River Dam main embankment consists of a timber diaphragm core and earth fill. The Pine River Dam control structure is made of reinforced concrete with a steel sheet pile cutoff and is supported on a timber substructure. Pine River Dam was modified during the period 1999-2002 to pass 70% of the Probable Maximum Flood. During this period, the 13 gate openings were enlarged and outfitted with new gates; the wing walls were modified; the existing dam and embankment was raised via addition of a parapet wall and a concrete-capped sheet pile wall, to provide 5 ft. of freeboard over the design flood; the foundation was grouted to stop seepage and fill voids; and the perimeter dikes were improved. Total Federal cost to the United States for new Dam Safety Assurance work at the Pine River Dam is \$11,058,967.

Local cooperation. Fully complied with.

Terminal facilities. None.

Operation and results during fiscal year. Reservoirs were operated as required, recreation facilities and equipment maintained, and surveys, repairs, reports and data collection cost \$2,934,547 Federal and \$0 non-Federal.

Condition at end of fiscal year. Existing project was completed in 1937. Flowage rights were acquired on all lands affected by construction, maintenance, and operation of reservoirs. A total of 1,672.26 acres in fee are owned by the United States. The United States has easements, flowage rights, and other rights of use on another 296,334.44 acres. Structures are in fair condition. Recreation facilities for public use are being constructed intermittently at all reservoir areas. (See Table 16-H for capacities and costs by reservoir.) The Corps operated control structures at Lake Winnibigoshish, Leech Lake, and Pokegama are classified as significant hazard dams under the national Dam Safety Program and require substantial investments to reduce the associated risks. Construction of dam safety modifications is substantially complete at Lake Winnibigoshish Dam. Work on the remaining two sites is unscheduled due to funding constraints.

3. UPPER MISSISSIPPI RIVER RESTORATION (UMRR) (FORMERLY EMP)

Location. The program is authorized for the commercially navigable portions of the Upper Mississippi River System. In the St. Paul District, this includes the Mississippi, Minnesota, Black, and St. Croix Rivers in the states of Minnesota, Wisconsin and Iowa.

Existing project. The purpose of the UMRR as stated in the authorizing legislation is to ensure the coordinated development and enhancement of the Upper Mississippi River System, recognizing its several purposes. It is intended to protect and/or enhance the river resources and guide future river management. The primary emphasis of the program is on habitat rehabilitation and enhancement projects. The other primary component, long-term resource monitoring, provides the means for more informed management of the UMRR. Also authorized, was a study of the economic impacts of recreation (completed), navigation traffic monitoring (completed under other authority), and recreation projects (unfunded). The program was initiated by WRDA in 1986 and the 1999 WRDA extended the UMRR on a continuing basis. The execution of the program is closely coordinated with the Upper Mississippi River Basin Association, the U.S. Fish and Wildlife Service, the U.S. Geological Survey, and the three

affected states (MN, WI, and IA) in the St. Paul District. See Rock Island District Tables 15-A and 15-B for total program costs and authorizing legislation.

Local cooperation. Local cooperation agreements are obtained for habitat project features not located on lands managed as a national wildlife refuge, as specified in Section 906(e) of the 1986 WRDA.

Operations and results during fiscal year. In the St. Paul District, costs during the year totaled \$1,774,774 Federal and \$27,397 non-Federal. The majority of funds were expended on the planning, design, construction and monitoring of habitat projects. Construction was substantially completed at Pool Slough, IA, and Long Meadow Lake, MN, and initiated at Pool 8 Islands Phase III Stage 2, WI. Planning and design of four projects continue.

Condition at end of fiscal year. In the St. Paul District, construction of 24 habitat projects has been completed. These are the Guttenberg Waterfowl Ponds (IA), Island 42 (MN), Lake Onalaska (WI), Blackhawk Park (WI), Pool 8 Islands Phases I and II (WI), Indian Slough (WI), Finger Lakes (MN), Lansing Big Lake (IA), Cold Springs (WI), Pool 9 Island (WI), Spring Lake Peninsula (WI), Bussey Lake (IA), Peterson Lake (MN), Polander Lake (MN), East Channel (WI/MN), Rice Lake (MN), Small Scale Drawdown (WI), Trempealeau (WI), Bank Stabilization (IA, WI, MN), Long Lake (WI), Ambrough Slough (WI), Spring Lake Islands (WI), Long Meadow Lake (MN), and Pool Slough (IA). Most of the projects are operated and maintained by the U.S. Fish and Wildlife Service. However, projects not located on lands managed as a national wildlife refuge are maintained by the applicable state department of natural resources. Through FY 07, funds expended by the St. Paul District have amounted to \$48,020,000 for planning, design, construction, and monitoring of habitat rehabilitation and enhancement projects; \$970,000 for long-term resource monitoring; \$768,000 for economic impacts of recreation study; and \$3,623,000 for program management. The annual authorized funding level for the overall program is approximately \$33 million.

4. NAVIGATION WORK UNDER SPECIAL AUTHORIZATION

Navigation activities pursuant to Sec. 107, Public Law 87-645, as amended.

In FY 07, \$0 was expended on Section 107.

Flood Control

5. BRECKENRIDGE, MN

Location. Breckenridge, Minnesota, is located in Wilkin County in western Minnesota, approximately 200 miles north and west of the Minneapolis-St. Paul metropolitan area. The city is bounded on the west by the Red River of the North and the Bois de Sioux River. The Ottertail River flows from the east, bisecting the city. The city of Wahpeton, ND, lies across the Red River from Breckenridge.

Existing project. A feasibility study recommended implementation of a flood damage reduction project consisting of a high-flow diversion channel located to the north of the Ottertail River and entering into the Red River and two separable permanent levee reaches that would protect all of Breckenridge. The project was authorized by WRDA 2000.

Local cooperation. A Feasibility Cost-Sharing Agreement was executed between the Federal Government and the city of Breckenridge on June 29, 1999. This agreement required the city to provide 50 percent of the costs of performing the feasibility study. A Project Cooperation Agreement, negotiated between the Federal Government and the city was signed on 15 August 2002.

Operations and results during fiscal year. Completed design and advertised a construction contract for the first phase of in-town levees in August. Total FY 07 Federal costs were \$1,160,189, and non-Federal were \$42,355.

Condition at end of fiscal year. The project is divided into three stages: Stage 1 – the diversion channel and Stages 2a and b – the levee work in the city. The Stage 1 construction contract was awarded in May 2003 and completed in June 2005; the diversion channel is operational and was used for the first time in the summer of 2005. During the 2006 flood, the diversion channel prevented \$26 million in damages. Stage 2 plans and specifications have been delayed by a lack of Federal funds. Stage 2b plans and specifications are underway.

6. CHIPPEWA RIVER AT MONTEVIDEO, MN

Location. Montevideo, MN, is located in western Minnesota in Chippewa County. The city is located at the confluence of the Chippewa and Minnesota Rivers.

Existing project. Overland flooding from the main stem Minnesota River and Chippewa River cause frequent flood-related problems for the city. A feasibility study evaluated structural and nonstructural alternatives for resolving the flood-related problems. The recommended plan includes construction of a new levee along Highway 7/29, an upgrade of an existing levee along the western edge of the city, a closure structure, and a new levee/road raise at Highway 212 along the southern edge of the city. The project is authorized by Section 205 of the 1948 Flood Control Act, as amended.

Local cooperation. A Project Cooperation Agreement (PCA) was executed between the Federal Government and the city of Montevideo on August 17, 2007. Local interests are required to provide a cash contribution of at least 5 percent of total project costs and any additional funds needed to make its total contribution, including the value of all required local responsibilities, equal to 35 percent of the total project costs; provide without cost to the United States all lands, easements, and rights-of-way, including suitable borrow and dredged material disposal areas; perform all relocations of public utilities, highways, bridges, and other facilities, structures, and improvements determined by the Government to be necessary for construction of the project; pay all costs in excess of the Federal statutory limit of \$7 million; hold and save the United States free from all damages arising from construction, operation, and maintenance of the completed project, except for damages due to the fault or negligence of the Government or its contractors; comply with the provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, as amended, in acquiring lands, easements, and rights-of-way for construction and subsequent operation and maintenance of the project and inform all affected persons of applicable benefits, policies, and procedures in connection with said Act; operate, maintain, repair, replace, and rehabilitate the completed project in accordance with regulations or directions prescribed by the Government; give the Government a right to enter, at reasonable times and in a reasonable manner, upon land which it owns or controls for access to the project for the purpose of inspection and, if necessary, for the purpose of completing, operating, maintaining, repairing, replacing, or rehabilitating the project; and comply with all applicable Federal and State laws and regulations, including Section 601 of Title VI for the Civil Rights

Act of 1964 (Public Law 88-352) and Department of Defense Directive 5500.11 issued pursuant thereto and published in Part 300 of Title 32, Code of Federal Regulations, as well as Army Regulations 600-7, entitled, "Nondiscrimination on the Basis of Handicap in Programs and Activities Assisted or Conducted by the Department of the Army." In addition, the city was responsible for betterments constructed in conjunction with, but not an integral part of, the project.

Operations and results during the fiscal year.
New Work: Stage 1 design work cost - \$75,500.

Condition at end of fiscal year. Stage 1 design work was completed.

7. GRAND FORKS, NORTH DAKOTA AND EAST GRAND FORKS, MINNESOTA

Location. Grand Forks, North Dakota, is located in Grand Forks County in eastern North Dakota about 70 miles south of the Canadian border. East Grand Forks, Minnesota, is located at the outlet of the Red Lake River to the Red River of the North, immediately across the river from Grand Forks. (For General Location see Geological Survey map of either North Dakota or Minnesota.)

Existing project. Project was authorized by P.L. 105-277, Omnibus Appropriation Bill FY 99. Estimated cost (2007) of the entire flood damage reduction project is \$409,300,000. Total cost to the United States is estimated at \$223,900,000, and total cost to the non-Federal sponsors (cities of Grand Forks and East Grand Forks) is estimated at \$185,400,000. The flood damage reduction project consists of 30 miles of levees, floodwalls, and road raises in and around both communities, providing protection against a flood equivalent to the peak discharge that occurred during the devastating flood of 1997 (136,900 cubic feet per second). A secondary purpose of recreation is also included in the authorized project.

Local cooperation. A PCA was signed with both communities in January 2000.

Operations and results during fiscal year. Completed remainder of construction except for Point area of East Grand Forks. All other contracts are substantially complete. Total Federal construction costs were \$14,746,359, and non-Federal costs were \$2,881,635.

Condition at end of fiscal year. The project was certified to the 100-year level of protection in January 2007 (Grand Forks) and June 2007 (East Grand Forks). The final lift of the East Grand Forks bank stabilization is scheduled for the spring of 2008, which will complete the entire project to the 250-year level of protection.

8. LAKE TRAVERSE AND BOIS DE SIOUX RIVER, MN, ND, AND SD

Location. Works covered by this project lie along Lake Traverse and Bois de Sioux River between the upper end of Lake Traverse at Browns Valley, MN, and the mouth of Bois de Sioux River at Breckenridge, MN. The project terminates six miles south of Breckenridge (six miles upstream of the Bois de Sioux River mouth). Lake drains through river to Red River of the North, and two waters form a portion of the boundary between State of Minnesota and States of North and South Dakota. (For general location, see Geological Survey map of Minnesota).

Existing project. See annual Report for 1962. Existing project was authorized by Flood Control Act of June 22, 1936. White Rock Dam, a part of the project, is 14,000 feet long with an average height of 16 feet. A Dam Safety Assurance Program Evaluation Report was prepared in accordance with ER 1110-2-1155, and was approved in December 2004. Dam Safety funding was provided in mid-year to initiate work on the Design Documentation Report (DDR). The dam safety modifications recommended to meet the base safety condition include armoring the downstream slope of the earthen embankment, and stability improvements for the control structure.

Local cooperation. Based on the Lake Traverse Project being 100 percent federally funded, the proposed dam safety modifications are also federally funded, therefore, no cooperation agreements are necessary.

Operation and results during fiscal year. Maintenance: Project and related facilities were operated and maintained at a cost of \$515,477 for FY 07. Dam Safety: District continued work on the Design Documentation Report (DDR) with carryover funds. This assessment resulted in White Rock Dam being ranked as a medium-high risk. Total FY 07 costs were \$7,076 for dam safety.

Condition at end of fiscal year. Existing project was completed in June 1948. White Rock Dam and

Reservation control structures are in operation. The DDR for recommended dam safety improvement is on hold due to lack of Federal funding.

9. SARTELL, MN

Location. The project is located in Sartell, MN, approximately 100 miles west of Minneapolis, MN.

Existing project. The emergency streambank protection project involves protection of a sanitary sewer line that runs parallel to the Mississippi River just downstream of Veterans Memorial Park. The project is authorized by Section 14 of the 1946 Flood Control Act, as amended.

Local cooperation. The PCA was approved by the CEMVD Commander for execution on September 26, 2007. The Agreement requires the city to provide, during the period of construction, a cash contribution of at least 5 percent of total project costs and any additional funds needed to make its total contribution, including the value of all required local responsibilities, equal to 35 percent of the total project costs; provide without cost to the United States all lands, easements, and rights-of-way, including suitable borrow and dredged material disposal areas necessary for construction, operation, and maintenance of the project; perform all relocations and alterations of building utilities (other than those portions which pass under or through the project structures), highways, railroads, bridges (other than railroad bridges and approaches thereto), sewers and related and special facilities determined by the Government to be necessary for construction of the project; pay all costs in excess of the Federal statutory limitation of \$1 million; hold and save the United States free from all damages arising from construction, operation, and maintenance of the completed project, except for damages due to the fault or negligence of the Government or its contractors; comply with the provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, Public Law 91-646, approved January 2, 1971, in acquiring lands, easements, and rights-of-way for construction and subsequent operation and maintenance of the project and inform all affected persons of applicable benefits, policies, and procedures in connection with said Act; operate, maintain, replace, and rehabilitate the project upon completion in accordance with regulations or directions prescribed by the Government; give the Government a right to enter, at reasonable times and in a reasonable manner, upon land which it owns or controls for access to the project for the purpose of completing, operating, maintaining, repairing, rehabilitating, or replacing the project; and

comply with all applicable Federal and state laws and regulations, including Section 601 of Title VI of the Civil rights Act of 1964 (Public Law 88-352) and Department of Defense Directive 5500.11 issued pursuant thereto and published in Part 300 of Title 32, Code of Federal Regulations, as well as Army Regulation 600-7, entitled "Nondiscrimination on the Basis of Handicap in Programs and Activities Assisted or Conducted by the Department of the Army."

Operations and results during the fiscal year.

Total Federal costs were \$69,105 for preparing the planning design analysis documentation.

Condition at end of fiscal year. Completion of the feasibility planning phase.

10. SHEYENNE RIVER, ND

Location. The Sheyenne River Basin is included in 16 counties in the southeastern portion of North Dakota and drains an area of 7,140 square miles into the Red River of the North near Fargo, North Dakota. The principal area of flood damages in the basin is located at the lower end within Cass County and the city of West Fargo. (For general location, see Geological Survey map of North Dakota.)

Existing project. The project as authorized by the 1986 Water Resources Development Act consists of three major components for Federal implementation: 1) 11.9 miles of levee and a 6.7 mile flood diversion channel at West Fargo; 2) 7.5 miles of flood diversion channel from Horace to West Fargo; and 3) a five-foot raise of the Baldhill Dam flood control pool. The Water Resources Development Act of 1986 stipulated that the project shall also include a dam and reservoir of approximately 35,000 acre-feet of storage for the purpose of flood protection on the Maple River. This component was deauthorized April 16, 2002. There are several items of local cooperation required to implement the plan, and several components identified for non-Federal implementation which would supplement the recommended plan. Estimated cost (2000) to the United States for new work is \$31,130,000 and \$12,470,000 is to be contributed by local interests.

Local cooperation. See Annual Report for 1988 for requirements. Project consists of three separable components each requiring a local cooperation agreement. The Southeast Cass Water Resource District is the local sponsor for the West Fargo Unit and the Horace to West Fargo Unit. The local cooperation agreement for the West Fargo Unit was executed on

July 25, 1988 (amended on June 4, 2001), and for the Horace to West Fargo unit on Mar. 6, 1990. The Sheyenne River Joint Water Resource District is the local Sponsor for the Baldhill Pool Raise Unit. The local cooperation agreement for the Baldhill Pool Raise Unit was executed on May 31, 2000. The Maple River Reservoir Unit was deleted from the project.

Operations and results during fiscal year.

Preparation of draft Flood Insurance Rate Maps was completed. Work continued on acquisition of lands. Total Federal costs were \$445,882, and non-Federal costs were \$10,001.

Condition at end of fiscal year. Construction of the West Fargo Unit is essentially complete, except for installation of emergency generators for the two pump stations; and construction is complete on the Horace to West Fargo Unit. Both of these units were operated during the spring and summer floods of 1993 and the spring floods in 1994, 1995, 1996, and 1997 and performed very well although some erosion damage was sustained on both projects. Plans and specifications were completed to repair 6,000 feet of the failed slope sections of the Horace to West Fargo diversion channel. Construction of the Baldhill Pool Raise Unit is essentially complete, except for final surveying and monumentation.

11. ST. CROIX RIVER, STILLWATER, MN

Location. In Washington County in eastern Minnesota along the St. Croix River about 18 miles northeast of St. Paul, (For general location, see Geological Survey map of Minnesota).

Existing project. The project provided for Stage 1 repair and reconstruction of the existing 1,000-foot retaining wall system; Stage 2 for construction of a 1,000-foot extension to the wall and expansion of the wall system to include a new secondary landward floodwall to aid in erosion protection for the downtown area; and Stage 3 for expansion of the floodwall system by constructing a low floodwall/levee along the western side of Lowell Park. Estimated Federal cost for new work is \$9,750,000, and \$3,250,000 is to be contributed by local interests. Project was authorized by the Water Resources Development Act (WRDA) of 1992 (Public Law 102-580), as amended by the WRDA of 1996 (Public Law 104-303). The Consolidated Appropriations Act of 2004 directed the Corps to proceed with design and initiate construction for Stage 3 of the Stillwater project using previously appropriated funds.

Local cooperation. See Annual Report for 1996 for requirements. A PCA was executed between the Federal Government and the city of Stillwater, MN, on April 22, 1996, which covered Stage 1 of the project. An amendment to the PCA to encompass Stage 2 was executed on September 29, 1998. An amendment to the PCA to encompass Stage 3 will be required.

Operations and results during fiscal year. Continued Stage 3 Engineering Documentation Report (EDR). Total Federal costs were \$29,837.

Condition at end of fiscal year. Construction of Stages 1 and 2 are complete. Work continued on the EDR for the third stage of construction.

12. WAHPETON, ND

Location. Wahpeton, ND, is located in Richland County in eastern North Dakota, approximately 55 miles south of Fargo, ND. The Red River of the north and the Bois de Sioux River bound the city on the north and the Bois de Sioux River bound the city on the east. The confluence of the Ottertail River with the Red River of the north is located at Wahpeton. The city of Breckenridge, MN, lies across the Red River of the north from Wahpeton.

Existing project. A feasibility study recommended implementation of a flood reduction project that consists of a permanent levee system protecting most of the city and a flood easement to keep the breakout floodflows from being blocked in the future. The project is authorized by Section 205 of the 1948 Flood Control Act, as amended.

Local cooperation. See Annual Report for 2001 for requirements. The PCA was executed between the Federal Government and the city of Wahpeton on June 18, 2002.

Operations and results during fiscal year. Continued design for Stage 2, the first phase of levee construction. Total Federal costs were \$0 and non-Federal costs were \$199,091.

Condition at end of fiscal year. Project construction began in the summer of 2003 with award of the Stage 1 construction contract for interior flood control features; this construction stage is complete. Plans and specifications for Stage 2, which consist of a portion of the in-town levees, are underway. Plans and specifications for Stage 3, the remainder of the in-town levees, have been initiated.

Environmental

13. MILLE LACS REGIONAL WASTEWATER, MN

Location. Project is located in the city of Garrison and the townships of Kathio and West Mille Lacs (GKWML). Existing development along the western shoreline of Mille Lacs Lake, one of the largest and most popular trophy fishing lakes in Minnesota, consists of a mixture of residential, commercial, and Mille Lacs Band of Ojibwe housing and casino structures. Most of the structures' wastewater is treated by individual unreliable septic systems.

Existing project. Section 108 (d) (61) of the Consolidated Appropriations Act of 2001 (P.L. 106-554) provided authorization for the Corps of Engineers to assist with a wastewater infrastructure project for the city of Garrison and Kathio Township, MN, as a part of the WRDA 1992, Section 219, Environmental Infrastructure program. The GKWML Sanitary District and the Mille Lacs Band entered into an agreement to design, construct, and operate a regional wastewater treatment project. The Band constructed a lift station at the northern edge of its reservation boundary. The Band has also completed construction of the Regional Sewage Treatment Plant. The GKWML Sanitary District is constructing a sanitary sewer line to collect and transfer wastewater within its jurisdiction to the Band's lift station for further transport to the Regional Treatment Plant.

Local cooperation. The estimated total cost of the GKWML portion of the project is \$16,500,000. Section 219 funds will be used to assist the Sanitary District in the construction of a \$3,517,000 "functional" portion of the GKWML project. A Design Section 219 PCA was signed in April 2005, and the design of the project has been completed. A Construction PCA was signed on December 16, 2006, for construction of the project.

Operations and results during the fiscal year. The Corps awarded a construction contract in June 2007 for \$1.4 million for the base portion of the contract. Federal costs were \$506,082, and non-Federal costs were \$41,539.

Condition at end of fiscal year. Construction of the Linden Street base contract is underway.

14. NORTHEASTERN MINNESOTA

Location. Northeastern Minnesota is defined as the Counties of Aitkin, Benton, Carlton, Cass, Chisago, Cook, Crow Wing, Isanti, Itasca, Kanabec, Koochiching, Lake, Mille Lacs, Morrison, Pine, St. Louis, and Sherburne, Minnesota. Areas within the 17 counties essentially comprise Minnesota Congressional District 8.

Existing project. Section 569 of WRDA 1999 provided the Corps authority to assist northeastern Minnesota communities with their environmental infrastructure projects. Over 41 projects have been selected in 30 communities. Funds available in FY 06 were used to support 10 new projects that continued into FY 07.

Local cooperation. The PCAs for the above-listed projects require the local sponsor to provide lands, easements, and rights-of-way, as well as the required 25 percent local sponsor cost share funding. The program is operated on a reimbursable basis. The Government and local sponsor agree on project cost and work. The sponsor retains a contractor to perform the work. Upon receipt of proper invoice and Government construction inspector verification that the work was performed, the Government reimburses the sponsor for 75 percent of the invoice billing.

Operations and results during fiscal year. Two new PCAs were signed with all payback funds received from FY 06 and previous years. Construction inspection activities and reimbursements were made to the non-Federal project sponsors as appropriate. Federal costs were \$1,121,384.

Condition at end of fiscal year. Construction is completed at Emily, Ely, and Tower. Design is completed at Cass Lake.

15. NORTHERN WISCONSIN

Location. Northern Wisconsin is defined as the Counties of Douglas, Bayfield, Ashland, and Iron, WI. These four counties are located within Wisconsin Congressional District 7.

Existing project. Section 154 of the Consolidated Appropriations Act of 2001 (Public Law 106-554) provided authorization for the Corps of Engineers to assist northern Wisconsin communities with their environmental infrastructure and water resource projects. Seven projects were selected in FY 06 for implementation that were continued into FY 07.

Local cooperation. The PCAs require the local sponsor to provide lands, easements, and rights-of-way, as well as the required 25 percent local sponsor cost-share funding. The program is operated on a reimbursable basis. The Government and local sponsor agree on project cost and work. The sponsor retains a contractor to perform the work. Upon receipt of proper invoice and Government construction inspector verification that the work was performed, the Government reimburses the sponsor 75 percent of the invoice billing.

Operation and results during fiscal year. No new PCAs were signed. Construction, inspection, and reimbursement activities continued as necessary. Federal costs were \$709,384.

Condition at end of fiscal year. Many previously selected projects are nearing completion including Butternut, Lake Namekagon, and Glidden.

16. ST. CROIX FALLS, SEWAGE TREATMENT PLANT, WI

Location. The project is located in the city of St. Croix Falls, Polk County, WI, in the Wisconsin Congressional District 7.

Existing project. Project was authorized by Section 120 of the Consolidated Appropriations Act (CAA) of 2005. Section 120 of the CAA, 2005, amended Section 219 of WRDA 1992 to include St. Croix Falls (\$5 million for wastewater infrastructure). The project was initially funded in the amount of \$350,000 in the Emergency Appropriations Act of 2005. The city is in the process of replacing its aging wastewater treatment plant. The city's existing wastewater treatment plant (WWTP) is 50 years old. It currently discharges 350,000 gallons of treated wastewater to the St. Croix River daily. While technically the WWTP meets current discharge requirements, aging equipment and changing water quality standards will seriously compromise its ability to perform. The city spent \$700,000 in local funds in 2000 to make major repairs on the WWTP and keep it running until it can be reconstructed.

Local cooperation. A Design Agreement was signed between the Federal Government and the city of St. Croix Falls on July 19, 2005. The estimated total cost of the St. Croix Falls wastewater project is \$8 million. Congress has authorized \$5 million of Federal funds for the project. The PCA for the

Section 219 program requires 25 percent local sponsor cost-share funding. The Federal share under the Agreement is not more than 75 percent.

Operations and results during the fiscal year. Work continued on a design contract. Federal costs were \$6,980, and non-Federal costs were \$14,500.

Condition at end of fiscal year. The city of St. Croix Falls hired an outside engineering firm to pursue reconditioning of the existing WWTP. Replacement of the WWTP is currently on hold.

Miscellaneous

17. LOWER ST. ANTHONY FALLS (LSAF) RAPIDS RESTORATION, MN

Location. The project is located on the Mississippi River within the city of Minneapolis, MN. The LSAF restoration would include development of a formal whitewater rapids channel and trail/park on the east bank of the Mississippi River, adjacent to the U.S. Army Corps of Engineers LSAF Lock and Dam.

Existing project. The project was authorized by Section 527 of WRDA 2000. The facility would include a recreational whitewater course for kayaking, canoeing, and rafting, as well as improved public access to the river and formal shore fishing opportunities. The facility would utilize the vertical drop created by the LSAF dam and include a new river channel approximately 2,000 feet long and 40 feet wide, with a vertical drop of 25 feet. The channel would flow parallel to the Mississippi River main stem in a park setting.

Local cooperation. A design agreement was executed between the Federal Government and the State of Minnesota Department of Natural Resources (MnDNR) on February 28, 2002. For much of FY 07, the project was on hold pending MnDNR resolution of key project design issues. Upon approval of the EDR and NEPA documentation, the PCA will be prepared for execution with the MnDNR.

Operation and results during fiscal year. Continued work with local sponsor on the EDR and validation of MnDNR report, including project definition, environmental compliance, and budget support. Federal costs were \$21,887, and non-Federal costs had a credit of \$-19,244.

Condition at end of fiscal year. Finalizing EDR.

18. INSPECTION OF COMPLETED FLOOD CONTROL PROJECTS

Flood control projects turned over to local interests were inspected to determine that project channels are kept clean and unobstructed, dikes and revetments are in good condition, and structures are in good repair and operable. Deficiencies, if any, were minor, unless noted. (See Table 16-J on inspection of completed flood control projects.)

Cost for the period was \$235,424. Total cost to September 30, 2007, is \$3,407,238.

19. PROTECTION OF NAVIGATION

During FY 07, operation and maintenance costs were \$4,761 for Project Condition Surveys and \$121,322 for Surveillance of Northern Boundary Waters.

20. OTHER WORK UNDER SPECIAL AUTHORITY

In the Sign Standards Programs (as described in Chapter 6, ER 1130-2-500), there were costs of \$175,522.

21. FLOOD CONTROL AND COASTAL EMERGENCIES (FC&CE)

Disaster Preparedness	\$ 342,662
Emergency Operations	213,015
Rehabilitation and Inspection Program	111,836
Advanced Measures	<u>89,785</u>
Total FC&CE	\$757,298

22. CATASTROPHIC DISASTER PREPAREDNESS PROGRAM (CDPP)

Continuity of Operations	\$ 578
Continuity Disaster Response Planning	57,227
Emergency Operations Center Support	<u>1,000</u>
Total CDPP	\$58,805

23. REGULATORY FUNCTIONS PROGRAM

Permit Evaluation	\$5,776,720
Enforcement	440,297
Environmental Impact Statements	107,025
Compliance	151,523
Administrative Appeals	<u>0</u>
Total Regulatory	\$6,475,565

General Investigations

24. SURVEYS

Fiscal year cost was \$960,127, which included seven feasibility studies, miscellaneous activities, and coordination with both Federal and non-Federal agencies. Table 16-N provides a specific list and respective fiscal year expenditures.

25. COLLECTION AND STUDY OF BASIC DATA

Fiscal year cost was \$163,611, which included the items concerning international water studies, flood plain management services, and hydrologic studies.

Table 16-N provides a specific list and respective fiscal year expenditures.

26. ADVANCE ENGINEERING AND DESIGN

Fiscal year cost was \$436,204, which included two local protection projects. Table 16-N provides a specific list and respective fiscal year expenditures.

ST. PAUL, MN, DISTRICT

TABLE 16-A COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Cost to Sep. 30, 2007	
2.	Reservoirs at Headwaters of Mississippi River, MN	New Work:						
		Approp.	0	0	0	0	4,398,628	
		Cost	0	0	0	0	4,398,628 ¹	
		Maint:						
		Approp.	4,179,620	7,348,000	2,867,000	2,864,000	91,659,749	
		Cost	4,141,417	6,311,540	3,819,579	2,934,547	91,604,274 ²	
		Maj. Rehab:						
		Approp.	0	0	0	0	425,000	
		Cost	0	0	0	0	425,000	
		Dam Safety:						
		Approp.	-2,000	0	0	0	11,059,000	
		Cost	5,127	0	0	0	11,059,000	
		(Contributed Funds)	New Work:					
		ROPE Study	Contrib.	0	0	0	0	150,000
Cost	85,182	16,172	0	0	150,000			
5.	Breckenridge, MN	New Work:						
		Approp.	4,688,140	422,000	1,114,000	2,400,000	12,187,140	
		Cost	4,795,532	421,807	838,997	1,160,189	10,672,105	
		(Contributed Funds)	New Work:					
		Contrib.	642,000	0	0	319,000	1,548,500	
		Cost	140,607	471,367	68,265	42,355	1,529,842	
6.	Chippewa River at Montevideo, MN	New Work:						
		Approp.	491,700	169,000	651,000	1,780,000	3,247,200	
		Cost	490,532	168,020	220,446	75,500	1,309,973	
		(Contributed Funds)	New Work:					
		Contrib.	1,175	0	0	515,000	764,175	
		Cost	1,227	0	0	0	249,175	
7.	Grand Forks, ND-East Grand Forks, MN	New Work:						
		Approp.	30,802,000	30,291,000	39,600,000	15,018,000	223,900,000	
		Cost	30,842,174	30,312,986	35,490,852	14,746,359	219,518,246	
		(Contributed Funds)	New Work:					
		Contrib.	3,720,000	13,729,076	6,988,281	0	46,754,356	
		Cost	6,882,487	11,469,529	7,293,272	2,881,635	44,800,397	
8.	Lake Traverse and Bois De Sioux River, MN, ND & SD	New Work:						
		Approp.	0	0	0	0	1,339,727	
		Cost	0	0	0	0	1,339,727	
		Maint:						
		Approp.	534,395	504,700	385,000	482,000	16,438,862	
		Cost	536,525	466,456	388,633	515,477	16,436,884	
		Dam Safety:						
		Approp.	0	350,000	-200,000	0	150,000	
		Cost	0	105,465	36,697	7,076	149,238	

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2007

TABLE 16-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Cost to Sep. 30, 2007
9.	Sartell, MN	New Work:					
		Approp.	0	0	20,000	349,000	369,000
		Cost	0	0	5,454	69,105	74,559
10.	Sheyenne River, ND	New Work:					
		Approp.	2,172,000	19,000	544,000	1,740,000	38,486,000
		Cost	2,166,295	46,761	119,857	445,882	36,765,849 ³
	(Contributed Funds)	New Work:					
	Horace to W. Fargo	Contrib.	0	0	0	0	424,318
		Cost	0	0	0	0	424,318
	(Contributed Funds)	New Work:					
	W. Fargo	Contrib.	489,000	0	37,500	0	2,933,500
		Cost	481,000	8,000	0	10,001	2,905,861
11.	St. Croix River, Stillwater, MN	New Work:					
		Approp.	-22,000	141,000	22,000	1,821,000	7,045,900
		Cost	-32,581	134,851	35,074	29,837	5,250,731
	(Contributed Funds)	New Work:					
		Contrib.	95,000	0	0	200,000	1,595,000
		Cost	95,000	0	0	0	1,395,000
12.	Wahpeton, ND	New Work:					
		Approp.	2,845,100	268,900	0	0	7,000,000
		Cost	2,792,448	325,050	0	0	7,000,000
	(Contributed Funds)	New Work:					
		Contrib.	975,000	395,000	0	175,000	2,438,000
		Cost	678,242	641,221	37,727	199,091	2,436,783
13.	Mille Lacs Regional Wastewater, MN	New Work:					
		Approp.	0	161,000	1,114,000	3,334,000	4,655,000
		Cost	2,760	45,086	311,632	506,082	903,087
	(Contributed Funds)	New Work:					
		Contrib.	0	100,000	0	1,305,000	1,405,000
		Cost	0	581	2,365	41,539	44,485
14.	Northeastern Minnesota	New Work:					
		Approp.	286,000	818,000	2,830,000	315,000	6,697,000
		Cost	1,220,880	592,811	987,635	1,121,384	5,428,247
15.	Northern Wisconsin	New Work:					
		Approp.	1,247,000	574,000	1,247,000	129,000	3,252,000
		Cost	1,239,857	-114,321	1,030,922	709,384	2,916,549

ST. PAUL, MN, DISTRICT

TABLE 16-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Cost to Sep. 30, 2007
16.	St. Croix Falls, Sewage Treatment Plant, WI	New Work: Approp. Cost	0 0	350,000 27,593	0 107,730	0 6,980	350,000 142,303
	(Contributed Funds)	New Work: Contrib. Cost	0 0	108,000 2,798	0 32,675	0 14,506	108,000 49,979
17.	Lower St Anthony Falls, Rapids Restoration, MN	New Work: Approp. Cost	-165,000 47,147	17,000 16,457	20,000 3,504	1,953,000 21,887	2,863,000 911,883
	(Contributed Funds)	New Work: Contrib. Cost	0 6,143	0 7,000	0 30,695	0 -19,244	333,000 291,894

1. Includes \$681,805 for new work for previous project.
2. Includes \$100,857 for maintenance for previous projects and MO of Dams funds of \$126,391.
3. Excludes \$1,150,000 sunk costs for deauthorized Kindred Lake unit (see Table 16-G). Excludes \$475,000 for costs associated with inactive Maple River unit.

TABLE 16-B AUTHORIZING LEGISLATION

See Sec. in Text	Date of Authorizing Act	Project and Work Authorized	Documents
2.		RESERVOIRS AT HEADWATERS OF MISSISSIPPI RIVER, MN	
	March 3, 1899	Reconstruct 4 of the 5 original dams and surveys to determine extent of lands overflowed by reservoirs.	
	March 2, 1907	Reconstruct Sandy Lake Dam and construct Gull Lake Reservoir.	
	June 25, 1910	Construct an equalizing canal between Winnibigoshish and Leech Lake Reservoirs (no work was done and this part of the project abandoned in Act of Mar. 4, 1915).	H. Doc. 363, 61st Cong., 2d session.
	July 27, 1916	Abandonment of ditches connecting Long Lake, Round Lake, and Gull Lake.	H. Doc. 413, 64th Cong., 1st session. ¹
	June 26, 1934 ²	Operation and maintenance provided for with funds from War Department appropriations for rivers and harbors.	
5.	June 30, 1948	BRECKENRIDGE, MN	Section 205 1948 Flood Control Act, as amended (Public Law 80-858)
	Dec. 11, 2000		WRDA 2000 – Public Law 106-541
6.	June 30, 1948	CHIPPEWA RIVER AT MONTEVIDEO, MN	Section 205, 1948 Flood Control Act, as amended (Public Law 80-858)
7.	October 21, 1998	GRAND FORKS, ND, AND EAST GRAND FORKS, MN	Public Law 105-277, OMNIBUS Appropriation Bill, FY 99
8.	June 22, 1936	LAKE TRAVERSE AND BOIS DE SIOUX RIVER, SD, ND, AND MN	1936 Flood Control Act
	December 2004		ER 1110-2-1155, Dam Safety Assurance Program Evaluation Report
9.	July 24, 1946	SARTELL, MN	Section 14, 1946 Flood Control Act, as amended (Public Law 79-526)
10.	November 17, 1986	SHEYENNE RIVER, ND Project shall include a dam and reservoir of approximately 35,000 acre-feet of storage for the purpose of flood protection Maple River.	WRDA 1986 – Public Law 99-662
11.	October 12, 1996	ST. CROIX RIVER, STILLWATER, MN	Section 301, WRDA 1996 (Public Law 104-303)
	October 31, 1992		Section 363, WRDA 1992 (Public Law 102-580)
	January 31, 2004	Secretary of the Army, acting through the Chief of Engineers, is directed to use previously appropriated funds to proceed with design and initiate construction to complete the Stillwater, Minnesota, levee and flood control project.	Section 124, Consolidated Appropriations Act of 2004 (Public Law 108-199)
12.	June 30, 1948	WAHPETON, ND	Section 205 1948 Flood Control Act, as amended (Public Law 80-858)
13.	October 31, 1992	MILLE LACS REGIONAL WASTEWATER, MN	WRDA 1992, as amended by Sec 108(d) of the Consolidated Approp. Act of 2001 (Public Law 106-554)

TABLE 16-B AUTHORIZING LEGISLATION (Continued)

See Sec. in Text	Date of Authorizing Act	Project and Work Authorized	Documents
14.	August 17, 1999	NORTHEASTERN MINNESOTA	WRDA 1999 – (Public Law 106 – 53, 569)
15.	December 15, 2000	NORTHERN WISCONSIN	Section 154 2001 Consolidated Appropriations Act (Public Law 106-554)
16.	October 31, 1992 May 11, 2005	ST. CROIX FALLS, SEWAGE TREATMENT PLANT, WI	WRDA 1992, as amended by Section 120 of the Consolidated Approp. Act of 2005 (Public Law 108-447) Supplemental Emergency Approp. Act (Public Law 109-13)
17.	December 11, 2000	LOWER ST. ANTHONY FALLS, RAPID RESTORATION, MN. Authorizes design and construction of a Whitewater Park in Minneapolis in accordance with June 1999 DNR feasibility report. \$10 million authorization with 65/35 cost sharing.	WRDA 2000 – Public Law 106-541, Section 527

1. Contains latest published map.
2. Permanent Appropriations Repeal Act.

TABLE 16-C OTHER AUTHORIZED NAVIGATION PROJECTS

Project	Status	For Last Full Report See Annual Report for	Cost To September 30, 2007	
			Construction	Operation and Maintenance
Baudette Harbor, MN	Completed	1961	\$ 36,415	\$ 57,768
Black River, WI	¹	1950	67,585	--
Lake Traverse, MN and SD	^{3,4}	1921	92	--
Minnesota River, MN	Completed	1996	2,057,722 ⁸	1,330,928
Mississippi and Leech Rivers, MN	Completed ³	1929	277,615	40,251
Mississippi River between Brainerd and Grand Rapids, MN	⁵	1925	47,794	3,891
Pine Creek, Angle Inlet, MN	Completed	1978	38,700	102,196
Red Lake and Red Lake River, MN	Completed ³	1923	9,070	--
Red River of the North, MN and ND	^{3,6}	1921	293,344	76,209
St. Croix River, MN and WI	Completed	1991	150,410	1,185,011
Warroad Harbor and River, MN	Completed	1996	86,105	2,354,650
Wisconsin River, WI	^{2,3}	1888	--	--
Zippel Bay Harbor, MN	Inactive	1928	27,941	11,139
Zippel Bay, Lake of the Woods County, MN	Completed	1996	515,000	63,941

1. Existing channel adequate for commerce (see Table 16-G for deauthorized portion of project.)
2. Originally included in project `Fox and Wisconsin River, WI'. Abandonment of improvement of Wisconsin River by channel contraction works recommended in 1886 and 1887 (H. Doc. 65, 49th Cong., 2d sess.) Expenditures included under `Fox and Wisconsin Rivers, WI'. No breakdown available.
3. No commerce reported.
4. Abandonment recommended in 1915 (H. Doc. 439, 64th Cong., 1st sess.) and June 24, 1926 (H. Doc. 467, 69th Cong., 1st sess.)
5. Abandonment recommended June 24, 1926 (H. Doc. 467, 69th Cong., 1st sess.)
6. Abandonment recommended in 1915 (H. Doc. 1666, 63d Cong., 3d sess.)
7. Abandonment recommended June 24, 1926 (H. Doc., 69th Cong., 1st sess.)
8. Includes \$117,542 for new work for previous project.

ST. PAUL, MN, DISTRICT

TABLE 16-E

OTHER AUTHORIZED FLOOD
CONTROL PROJECTS

Project	Status	For Last Full Report See Annual Report for	Cost To September 30, 2007	
			Construction	Operation and Maintenance
Aitkin County, CSAH 10, MN	Completed	1998	\$ 363,700 ⁵⁵	--
Bassett Creek, MN	Completed	2002	29,535,200 ⁵⁷	--
Big Fork River, MN ²	Completed	1998	294,600 ⁶	--
Big Stone Lake and Whetstone River, MN and SD	Completed	1996	12,174,600 ¹	\$6,951,894
Black Bear & Miller Lakes, Crow Wing City, MN ³	Completed	1988	471,000	--
Black River at North Bend, WI ²	Completed	--	74,500	--
Brooklyn Center Sewer Line Mississippi River, MN	Completed	2004	610,646 ⁶¹	--
Bonnes Coulee, Velva, ND ²	Completed	1985	58,500	--
Cannon River at Faribault, MN ²	Completed	1991	62,585 ⁷	--
Chaska, MN	Completed	2004	31,571,499 ⁶⁵	--
Cochrane Drainage Ditch, WI	Completed	--	37,182	--
Crookston, MN	Completed	2005	7,037,856 ⁶⁷	--
Devils Lake, ND ³	Completed	1992	2,732,000	--
Dry Run, IA	Completed	1966	1,790,759 ⁸	--
Eau Galle River, WI	Completed	1996	9,039,250	18,553,890
Elk River, MN	Completed	1970	259,700 ⁹	--
Emerson Manitoba-Noyes, MN ³	Completed	1992	343,000 ¹⁰	--
Enderlin, Maple River, ND ³	Completed	1990	4,000,000 ¹¹	--
Gilmore Creek, Winona, MN ³	Completed	1997	2,351,553 ¹²	--
Grafton, Park River, ND	Active	2005	1,122,919 ⁶⁸	--
Grafton Pumping Station, ND ²	Completed	1990	92,865 ¹³	--
Grand Mound, State Historic Site, MN ²	Completed	1992	242,000 ¹⁴	--
Guttenberg, IA	Completed	1974	2,361,915	--
Hanover, Hennepin County, MN ²	Completed	1988	259,500	--
Homme Lake and Dam, ND	Completed	2005	13,337,472 ⁶⁹	5,794,980
Houston, MN	Completed	1999	5,003,300 ⁵³	--
Irving Township, Jackson County, WI ²	Completed	1984	189,600	--
Irving Township at Nicols Road, Jackson County, WI ²	Completed	1986	158,500	--
Kickapoo River, Gays Mills, WI ²	Completed	1987	33,000	--
Lac qui Parle Lakes, MN	Completed	1996	964,873 ⁵²	17,119,864
LaFarge Lake and Channel Improvement, WI	Completed	2003	35,642,000	--
Lake Andrusia, Mississippi River, MN ²	Completed	1989	61,326 ¹⁵	--
Lake Ashtabula and Baldhill Dam, ND	Completed	2002	26,160,461 ⁵⁸	37,469,367
Lake Pulaski, Wright County, MN ³	Completed	1991	1,353,478 ¹⁷	--
LeSueur River, CSAH 28, MN	Completed	2001	261,400 ⁵⁶	--
Lost River, MN	Completed	1967	517,519 ¹⁸	--
Lower Branch Rush River, ND ³	Completed	1974	1,000,000 ¹⁹	--
Mahnomen, Wild Rice River, MN ²	Completed	--	85,400	--
Mankato and North Mankato, MN	Completed	1997	97,013,675 ²⁰	--
Mankato Township, MN ⁹	Completed	1998	215,200 ²¹	--
Marshall, MN	Completed	2004	9,013,544 ⁶⁶	--
Melrose, WI ²	Completed	1998	219,600 ²²	--
Middle River at Argyle, MN ³	Completed	1993	2,360,000	--
Minnesota River, Belgrade Township, MN ²	Completed	1995	261,000 ²³	--
Minnesota River at Henderson, MN ³	Completed	1997	1,969,800 ²⁴	--
Minnesota River at LeSueur, MN ²	Completed	1986	250,000 ²⁵	--
Minneota, MN ³	Completed	1963	161,545	--
Minot, ND	Completed	1983	21,479,500 ²⁶	--

TABLE 16-E OTHER AUTHORIZED FLOOD CONTROL PROJECTS
(Continued)

Project	Status	For Last Full Report See Annual Report for	Cost To September 30, 2007	
			Construction	Operation and Maintenance
Mississippi River near Aitkin, MN	Completed	1957	\$ 1,675,835	--
Pembina River, ND	Active ⁵	1983	--	--
Pettibone Park, La Crosse, WI ²	Completed	1989	62,762 ²⁷	--
Plum Creek, New Haven Township, MN ⁴	Completed	--	31,100	--
Portage, WI	Completed	2005	9,036,907 ⁷⁰	--
Prairie du Chien, WI	Completed	1991	3,529,000	--
Red Lake River at Gentilly, MN	Completed	1991	311,000 ²⁸	--
Red Lake River at Huot, MN ²	Completed	1984	64,500	--
Red Lake River at Red Lake Falls, MN ²	Completed	1984	131,000	--
Red Lake River, MN including Clearwater River, MN	Completed	1996	3,120,079 ²⁹	\$ 4,875,874
Red Lake River, Polk County, Crookston, MN ²	Completed	1997	166,400 ³⁰	--
Red Lake River, State Hwy 32, MN ²	Completed	1993	151,665 ³¹	--
Red River of the North at Argusville, ND ³	Completed	1990	1,534,000	--
Red River of the North at Breckenridge, MN ²	Completed	1990	85,665 ³²	--
Red River of the North at Breckenridge, MN ²	Completed	--	27,500	--
Red River of the North Drainage Basin, MN SD, & ND	Completed	1997	8,322,112 ³³	17,558,696
Red River of the North at Fargo, ND-Moorhead, MN ⁴	Completed	1992	226,500 ³⁴	--
Red River of the North, Fargo Public Facilities, ND	Completed	2002	1,342,821 ⁵⁹	--
Red River of the North at Halstad, MN ³	Completed	1986	2,012,000	--
Red River of the North at Oslo, MN ³	Completed	1984	1,960,200	--
Red River of the North at Pembina, ND ³	Completed	1979	2,000,000	--
Redwood River below Marshall, MN ³	Completed	1960	202,400	--
Rochester, MN	Completed	1997	67,523,438 ⁵⁴	--
Root River at Hokah, MN ²	Completed	1992	239,627 ³⁵	--
Roseau River, MN	Completed	1996	2,341,000 ³⁶	--
Rushford, MN	Completed	1980	3,192,333	--
Sanders Creek, Boscobel, WI ³	Completed	1998	1,441,500 ³⁷	--
Shepard Road, Mississippi River, St. Paul, MN ²	Completed	1985	250,000 ³⁸	--
Sheyenne River, Valley City, ND ²	Completed	1988	111,000	--
Snake River, Alvarado, MN ³	Completed	1997	1,761,000 ³⁹	--
Sogn, MN	Completed	1996	47,400 ⁴⁰	--
Souris River Basin, ND	Completed	2003	109,260,000 ⁶⁴	3,954,412
Souris River, Velva, ND ²	Completed	1988	137,500	--
State Hwy 7 Bridge, Pomme de Terre River, Appleton, MN	Completed	2002	239,903 ⁶³	--
State Road and Ebner Coulees, WI	Completed	1996	21,435,000 ⁴¹	--
Sterling Center, MN ²	Completed	1997	160,900 ⁴²	--
St. Cloud, MN	Completed	2002	998,814 ⁶⁰	--
St. Hilaire, MN	Completed	1996	141,100 ⁴³	--
St. Paul, MN	Completed	2002	13,897,500 ⁶²	--
St. Paul and South St. Paul, MN	Completed	1974	8,476,012 ⁴⁴	--
Upper Iowa River, IA	Completed	1964	888,445	--
Velva, ND ³	Completed	1970	334,628	--
Vermillion River, Hastings, MN ³	Completed	1980	999,900	--

**TABLE 16-E
(Continued)****OTHER AUTHORIZED FLOOD
CONTROL PROJECTS**

Project	Status	For Last Full Report See Annual Report for	Cost To September 30, 2007	
			Construction	Operation and Maintenance
Veteran's Memorial Levee, Mississippi River, Hastings, MN ²	Completed	1985	182,000	--
Wabasha County, County Hwy 11, MN ²	Completed	1995	273,000 ⁴⁵	--
Wabasha, Mississippi River, MN ²	Completed	1993	113,700 ⁴⁶	--
Warner Road, Mississippi River, St. Paul, MN ²	Completed	1987	250,000	--
Warner Road, Sibley Street, Mississippi River, St. Paul MN	Completed	1992	500,000 ⁴⁷	--
Wild Rice River, Hendrum/Lee, MN ³	Completed	1997	383,300 ⁴⁸	--
Wild Rice River, Mahnomon County, MN ²	Completed	1986	58,500	--
Wild Rice River, Mahnomon, MN ⁴	Completed	--	86,568	--
Wild Rice River, South Branch and Felton Ditch, MN	Completed	1989	5,620,700	--
Winona, MN	Completed	1989	32,741,131 ⁴⁹	--
Zumbro River at Genoa, MN ²	Completed	1992	34,500 ⁵⁰	--
Zumbro River, MN	Completed	1975	1,284,100	--
Zumbro River at Jarrett and Millville, MN ²	Completed	1990	141,440 ⁵¹	--

1. Excludes \$152,492 contributed funds. In addition, \$487,491 in other contributed funds have been expended for work under Government contract paid for by the Ottertail Power Company.
2. Project authorized by Chief of Engineers under small project authority, Section 14, Flood Control Act of 1946, as amended.
3. Project authorized by Chief of Engineers under small project authority, Section 205, Flood Control Act of 1948, as amended.
4. Project authorized by Chief of Engineers under small project authority, Section 208, Flood Control Act of 1954, as amended.
5. Preconstruction planning has not started. Phase I completed under General Investigations.
6. Excludes \$56,453 contributed funds.
7. Excludes \$18,362 contributed funds.
8. Excludes \$42,766 contributed funds.
9. In addition, \$87,878 was expended from Public Law 99 funds in the spring of 1969 for emergency protection and incorporation into the permanent project.
10. Excludes \$201,544 contributed funds.
11. Excludes \$150,191 contributed funds.
12. Excludes \$12,749 contributed funds.
13. Excludes \$27,583 contributed funds.
14. Excludes \$77,290 contributed funds.
15. Excludes \$20,441 contributed funds.
16. Advance engineering and design costs only. Project deferred with authorization of Souris River Basin Project (see Section 25 and Table 16-A for costs for active project).
17. Excludes \$74,225 contributed funds.
18. Excludes \$46,034 for the Ruffy Brook unit for which authorization expired in April 1966 (see Table 16-G). Excludes \$246,911 contributed funds.
19. Excludes \$35,000 contributed funds.
20. Excludes \$79,749 contributed funds.
21. Excludes \$91,218 contributed funds.
22. Excludes \$59,855 contributed funds.
23. Excludes \$68,421 contributed funds.
24. Excludes \$307,239 contributed funds.
25. Excludes \$130,300 contributed funds.
26. Excludes \$4,167 contributed funds.
27. Excludes \$20,920 contributed funds.

**TABLE 16-E
(Continued)**

**OTHER AUTHORIZED FLOOD
CONTROL PROJECTS**

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- 28. Excludes \$92,402 contributed funds.
 - 29. Excludes \$30,020 contributed funds.
 - 30. Excludes \$33,000 contributed funds.
 - 31. Excludes \$35,430 contributed funds.
 - 32. Excludes \$26,055 contributed funds.
 - 33. Includes cost of the Wahpeton-Breckenridge unit \$11,239, which is classed as "deferred" and the units on which authorization has expired: Maple River, \$1,241; Moorehead, \$27,700; which Sheyenne, \$37,956. In addition, \$203,874 special deposit funds and \$146,160 in other contributed funds have been expended for work under Government contract paid for by local interests. Includes \$184,352 expended on Orwell Lake between FY 91 - FY 96 under Section 1135, Public Law 99-662 authority. Excludes \$64,775 contributed funds under Section 1135, Public Law 99-662 authority.
 - 34. Excludes \$61,895 contributed funds.
 - 35. Excludes \$67,014 contributed funds.
 - 36. Excludes \$65,902 contributed funds.
 - 37. Excludes \$175,357 contributed funds.
 - 38. Excludes \$62,620 contributed funds.
 - 39. Excludes \$100,000 contributed funds.
 - 40. Excludes \$5,253 contributed funds.
 - 41. Excludes \$225,000 sunk costs for inactive Ebner Coulee unit (see Table 16-E) and \$4,206,836 contributed funds.
 - 42. Excludes \$39,815 contributed funds.
 - 43. Excludes \$31,064 contributed funds.
 - 44. Excludes \$545,637 contributed funds for new work and \$38,000 expended by South St. Paul for work in lieu of required cash contribution. Excludes an additional \$206,629 expended for work done at request of local interests.
 - 45. Excludes \$73,619 contributed funds.
 - 46. Excludes \$37,631 contributed funds.
 - 47. Excludes \$184,709 contributed funds.
 - 48. Excludes \$97,800 contributed funds.
 - 49. Excludes \$589,316 contributed funds. In addition, \$717,809 in other contributed funds have been expended for work under Government contract paid for by local interests.
 - 50. Excludes \$11,066 contributed funds.
 - 51. Excludes \$38,173 contributed funds.
 - 52. Excludes \$20,000 contributed funds.
 - 53. Excludes \$777,070 contributed funds.
 - 54. Excludes \$7,628,650 contributed funds.
 - 55. Excludes \$177,500 contributed funds.
 - 56. Excludes \$114,000 contributed funds.
 - 57. Excludes \$2,083,373 contributed funds.
 - 58. Excludes \$460,800 contributed funds.
 - 59. Excludes \$674,000 contributed funds.
 - 60. Excludes \$670,000 contributed funds.
 - 61. Excludes \$53,233 contributed funds.
 - 62. Excludes \$3,418,460 contributed funds.
 - 63. Excludes \$106,800 contributed funds.
 - 64. Excludes \$8,180,000 contributed funds.
 - 65. Excludes \$3,968,267 contributed funds.
 - 66. Excludes \$1,719,613 contributed funds.
 - 67. Excludes \$1,858,000 contributed funds.
 - 68. Excludes \$351,000 contributed funds.
 - 69. Excludes \$81,000 contributed funds for Dam Safety Assurance Program.
 - 70. Excludes \$2,373,000 contributed funds.

TABLE 16-G DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report for	Date Deauthorized	Federal Funds Expended	Contributed Funds Expended
Black River, WI ¹	1950	Aug. 5, 1977	--	--
Black River Lake, WI	1950	Aug. 5, 1977	--	--
Bois de Sioux and Red River, Wahpeton, MN—Breckenridge, MN ⁸	1981	Apr. 16, 2002	\$ 11,239	--
Burlington Dam, Souris River, ND	1983	Mar. 10, 1995	5,568,600 ²	--
Grafton, ND ³	1983	Nov. 18, 1991	--	--
Hudson Harbor, WI ⁴	1986	Nov. 17, 1986	--	--
Kindred Lake, ND ⁵	1987	Nov. 17, 1986	1,150,000	--
La Crosse, WI ⁶	1983	Nov. 17, 1986	--	--
Lake Darling Dam, ND	1987	Sep. 13, 1994	4,919,000 ⁷	--
Maple River, ND ⁸	1981	Oct. 6, 1961	1,241	--
Moorhead, MN ⁸	1981	Oct. 30, 1961	27,700	--
Pembina River Lake, ND	1950	Jan. 1, 1990	50,000	--
Ruffy Brook, MN	1967	Apr. 1966	46,034	--
Sheyenne River, ND ⁸	1981	Dec. 31, 1970	37,956	--
Sheyenne River, Maple River Reservoir, ND	1988	Apr. 16, 2002	475,000	--
State Road and Ebner Coulees (Ebner Coulee Unit)	1981	Jul. 9, 1995	225,000	--
Tongue River Lake, ND	1950	Jan. 1, 1990	23,695	--
Twin Valley Lake, Wild Rice River, MN	1988	Apr. 16, 2002	2,115,700	--
Warroad River and Bulldog Creek, MN	1974	Nov. 17, 1986	182,000	--
Warroad Harbor and River, MN ⁹	1981	Aug. 5, 1977	--	--

1. Portion of project for removal of obstructions at various points outside the dredged area to clear channel to full project width (see Table 16-C for costs for completed portion of the project).
2. Advance engineering and design costs only. The Senate Report 97-256 states that the Corps is to take no further action to construct Burlington Dam until directed to do so by Congress.
3. Grafton, ND, was reauthorized by Section 364 of WRDA in 1999.
4. Part of the St. Croix River, Minnesota and Wisconsin project.
5. Previously part of Sheyenne River, ND project (see Section 23 and Table 16-A for costs for active project).
6. Authorized for further study by a House Committee on Public Works Resolution dated March 15, 1988.
7. Advance engineering and design costs only. (See Section 25 and Table 16-A for costs for active project).
8. Part of Red River of the North Drainage Basin (see Section 20 in text and Table 16-I for costs for active units of project).
9. Portion of dredging of entrance channel and turning basin to complete project width and depth (see Table 16-C for costs for completed portion of project).

**TABLE 16-I RED RIVER OF THE NORTH DRAINAGE BASIN:
ACTIVE UNITS IN COMPREHENSIVE BASIN PLAN**

	State	Type	Cost to Sep. 30, 2007	Total Estimated Federal Cost
Orwell River (Otter Tail River)	Minnesota	Reservoir	\$1,916,753	\$1,916,700 ¹
Wild Rice and Marsh Rivers	Minnesota	Channel improvement	405,056	405,100
Rush River	North Dakota	Channel improvement	287,686	287,700
Sand Hill River	Minnesota	Channel improvement	548,778	548,800
Mustinka River	Minnesota	Channel improvement	440,788	440,800
Otter Tail River	Minnesota	Channel improvement	174,768	174,800
Red River at Grand Forks	North Dakota	Levees and floodwall	948,895	948,900
Red River at East Grand Forks	Minnesota	Levees, floodwall, pumping plants	1,698,200 ²	1,698,200 ³
Red River at Fargo	North Dakota	Channel improvement	1,639,924	1,639,900 ⁴
Total Cost to Date			\$8,060,848 ⁵	
Total Estimate Cost				\$8,060,900 ⁶

1. Includes \$181,713 for lands and \$25,045 for recreation facilities.
2. Excludes cost for current planning, engineering and design work.
3. The East Grand Forks unit was reclassified from active to inactive on August 19, 1988; the project was reactivated in June 1997. The cost of this unit was last revised in 1987. A new flood control plan for a combined Grand Forks-East Grand Forks project was authorized in 1999. See Section 7 and Table 16-A for project description and costs.
4. Includes \$67,900 for lands.
5. Costs of \$11,239 for the Wahpeton-Breckenridge deauthorized unit not included. Authorization of the Sheyenne River, Moorhead, and Maple River units has expired. Cost of these units also not included total \$66,897.
6. The Wahpeton-Breckenridge unit of the project is classed as deauthorized and is excluded from the estimate. The cost of this unit, last revised in 1955, was estimated to be \$666,000. The Flood Control Act approved December 31, 1970 (H. Doc. 330-91-2), provided for deletion of the Sheyenne River unit, and authorization of the Maple River and Moorhead units expired at the end of the 5-year period within which local interests were required to furnish assurances of local cooperation. Authorization of these units, not included, expired on the dates indicated in Table 16-G. In FY 89, the Wahpeton-Breckenridge unit was included as part of the General Investigation program under Restudy of Deferred projects.

TABLE 16-K FLOOD CONTROL WORK UNDER SPECIAL AUTHORIZATION
Flood control activities pursuant to Section 205, Public Law 858, 80th Congress, as amended (preauthorization)

Study/Project and Location	Fiscal Year Costs
Borup, MN.....	3,422
Chippewa River at Montevideo, MN.....	75,500
Delano, MN.....	224
Fargo, Ridgewood Addition, ND.....	390,284
Lac Qui Parle River, Dawson, MN.....	292,698
Marsh Creek Site 6, MN.....	6,370
Minnesota River, Jordan, MN.....	2,495
Mississippi River, Newport, MN.....	519
Section 205 Coordination.....	16,732
Snake River, Alvarado, MN.....	-2,820
Wild Rice and Marsh Rivers, Ada, MN.....	148,570

Emergency bank protection
(Section 14 of the 1946 Flood Control Act, Public Law 526, 79th Congress)

Study/Project and Location	Fiscal Year Costs
Aitkin CSAH 10, MN.....	\$ 138
Barnes County, Kathryn, ND.....	17,766
Black River, River Drive, WI.....	2,603
Chippewa River, Big Bend Lutheran Church, MN.....	227,799
Elk River, Sherburne County, MN.....	23,906
Le Suer River, CSAH 28, Blue Earth County, MN.....	-2,100
Minnesota River, Shakopee, MN.....	-4,149
Pug Hole Lake, MN.....	406
Sartell, MN.....	69,105
Section 14 Coordination.....	23,075
State Highway 7 Bridge, Pomme De Terre River, MN.....	-6,303

**TABLE 16-L PROJECT MODIFICATIONS FOR IMPROVEMENT
OF ENVIRONMENT**
**Modifications of projects for the purpose of improving the quality of the environment in
the public interest (Section 1135, Public Law 99-662, 99th Congress, as amended)**

Study/Project and Location	Fiscal Year Costs
Coordination account funds	\$1,341
Eau Galle River, WI	-2,964

TABLE 16-M AQUATIC ECOSYSTEM RESTORATION
Restorations of Aquatic Ecosystems pursuant to Section 206, Public Law 104-303

Study/Project and Location	Fiscal Year Costs
Coordination account funds	\$ 5,019
Paint Creek, Allamakee County, IA.....	2,777
Painters Creek, MN	132,716
Red River of the North Fishways, MN and ND.....	-8,438

TABLE 16-N INVESTIGATIONS

Study/Project and Location	Fiscal Year Costs
Studies	
Flood Damage Prevention	
Roseau River, MN ¹ (RRN Authority)	\$ 1,773
Reconnaissance	
Baraboo River, WI	14,780
Ecosystem Restoration	
St. Croix River, WI, Relocation of Endangered Mussels	191,991
Marsh Lake, MN ² (MN River Authority)	57,022
Watershed/Comprehensive Reconnaissance Studies	164,315
Watershed/Comprehensive Feasibility Studies	
Fargo, ND – Moorhead, MN ³ and Upstream	10,889
Wild Rice River, MN	172,149
South Washington County Watershed, MN (UMR Watershed Management, Lake Itasca to L/D 2, MN).....	3,165
Minnehaha Creek Watershed, MN (UMR Watershed Management, Lake Itasca to L/D 2, MN)	155,443
Miscellaneous Activities	
Special Investigations.....	42,014
FERC Licensing Activities.....	15,122
Inter Agency Water Resources Development.....	45,038
Coordination with Other Agencies	
Cooperation with Other Water Resource Agencies	8,783
Planning Assistance to States ⁴ :	
Minnesota.....	68,339
Wisconsin.....	9,304
TOTAL SURVEYS	\$960,127
COLLECTION AND STUDY OF BASIC DATA	
International Water Studies	\$ 47,988
Flood Plain Management Services	
FPMS Unit	46,450
Technical Services, General	50,271
Quick Responses	9,581
Hydrologic Studies.....	9,321
TOTAL COLLECTION AND STUDY OF BASIC DATA	\$163,611
PRECONSTRUCTION ENGINEERING AND DESIGN	
Roseau River, MN (RRN Authority).....	\$ 437,573
Park River, Grafton, ND.....	-1,369
TOTAL PRECONSTRUCTION ENGINEERING AND DESIGN.....	\$436,204

1. Excludes \$1,816 contributed funds.
2. Excludes \$5,861 contributed funds.
3. Excludes \$735 contributed funds.
4. Excludes \$52,661 contributed funds.

MISSISSIPPI RIVER BETWEEN THE MISSOURI RIVER AND MINNEAPOLIS, MN

Section of river covered in this report is divided into three reaches, under supervision and direction of District Engineers at St. Louis, Rock Island, and St. Paul. Section in St. Louis District extends 105 miles from Mouth of Missouri River to Upper Mississippi River mile 300 above Ohio River; Rock Island District extends about 314 miles from mile 300 to 614; and St. Paul District extends about 244 miles from mile 614 to Soo Line Railroad bridge, Minneapolis (mile 857.6).

Location. Mississippi River rises in northern Minnesota, flows about 2,360 miles southerly and empties into Gulf of Mexico. Portion included in this report extends about 663 miles from mouth of Missouri River to Soo Line Railroad bridge, Minneapolis. The latest map and profile showing this section of river are in House Document 669, 76th Congress, 3d session. A map showing Lake Pepin is in House Document 511, 79th Congress, 2d session. A map of section Minneapolis to Dubuque is in House Document 515, 79th Congress, 2d session. A map showing location of drainage districts (Bellevue, Iowa, to Missouri River) is in River and Harbors Committee Document 34, 75th Congress, 1st session.

Previous projects. See page 1199 of Annual Report for 1963.

Existing project. Provides a channel of 9-foot depth and adequate width between mouth of Missouri River (1,179 miles from the gulf) and Soo Line Railroad at Minneapolis, by construction of a system of locks and dams, supplemented by dredging. Project also provides for further improvements at St. Paul to provide a 2.7 mile basin extending downstream from Robert Street Bridge, and at Minneapolis to provide adequate terminal facilities, and for other harbor improvements and miscellaneous work. Pertinent data on locks and dams, harbor improvements, additional features entering into cost of project, and authorizing legislation are given in Tables 17-C, 17-D, 17-E, and 17-G. All dams are concrete. Three dams (Upper St. Anthony Falls, 1 and 19) are fixed, remainder are movable. See House Document 669, 76th Congress, 3d session, for a report of Chief of Engineers dated February 27, 1940, containing a general plan for improvement of Mississippi River between Coon Rapids Dam and mouth of Ohio River for purposes of navigation, power development, flood control, and irrigation needs.

Local cooperation. Small-boat harbors authorized in the River and Harbor Act of 1962 are subject to conditions that local interests make a cash contribution toward cost of construction (except in case of Quincy Harbor which involves maintenance only of an existing harbor); furnish lands and rights-of-way for construction and future maintenance; hold the United States free from damages; provide and maintain mooring facilities and utilities; reserve accommodations for transient small boats; accomplish all necessary relocations and alterations; and establish public bodies empowered to regulate use, growth and development of the harbors.

Rectification of seepage damages to privately owned lands in the Sny Island Levee Drainage District, IL, was contingent upon the conditions that local interests acquire all lands, easements, and rights-of-way necessary for construction and maintenance of the project; comply with applicable provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970; accept, operate, and maintain the project upon its completion; and hold and save the United States free from damages arising from the construction and operation of the completed project; provided further that the local public entity shall be reimbursed by the Government in the amounts actually expended by it in the acquisition of real estate and for payments required under Public Law 91-646 if said amounts have been previously submitted to and approved by the Government.

Local cooperation requirements have been complied with for improvement of commercial harbor at Dubuque, IA; for improvement of Beaver Slough at Clinton, IA, for navigation; and for general navigation facilities at small-boat harbors at Rock Island, IL; Hannibal, MO; Fort Madison, IA; Davenport (Lindsay Park), IA; Muscatine, IA (including freight terminal approach channel); Andalusia, IL; Warsaw, IL; Moline, IL; Clinton, IA; and Savanna, IL.

Licenses. Federal Energy Regulatory Commission collects from non-Federal licensees annually to recompensate the United States for use of government dams for generation of hydroelectric power. Amounts collected are returned to U.S. Treasury. (See Table 17-F for license fees collected for the fiscal year.)

St. Paul District:

New Work: None.

Maintenance: During fiscal year 2007, the Government pipeline Dredge *WILLIAM L. GOETZ* removed 349,561 cubic yards of material at 12 sites. Government Derrick Barge *HAUSER/WADE* removed 6,107 cubic yards of material at one site. Mechanical dredging contractor removed 162,234 cubic yards of material from the main channel at 10 sites. Major maintenance projects included central control building and electrical controls at Locks 10 and stop log slots at Lock 9.

Operations and Care: Locks and Dams were operated as required and necessary repairs were made to those and appurtenant structures. Other studies, reports, and miscellaneous engineering work were also accomplished.

Rehabilitation: The rehabilitation of the district's central control buildings continued. During FY 2007 the building and site work continued at Lock 10.

The related navigation safety and embankments problems at Lock and Dam 3 were examined in separate reports in 1995 with recommended structural fixes for these problems. The proposed projects were approved by Corps Headquarters, but have not been implemented for a number of reasons including the presence of a diverse mussel bed with state-listed endangered species in the tailwater area. Construction of the first stage of the embankment project was completed in the summer of 1999. The St. Paul District decided to re-evaluate these related problems in an effort to find more optimal solutions. A Notice of Intent to Prepare an Environmental Impact Statement for the Lock and Dam 3 navigation safety and embankments re-evaluation was published in the Federal Register in August 2000. Stakeholders helped the District set objectives, identify alternative measures and formulate alternative plans. Alternative plans have been evaluated and compared using a risk and benefit cost assessment. An effective and environmentally acceptable combination plan to improve navigation safety and to strengthen the Wisconsin embankments was identified. A Record of Decision was signed in April 2007 that identified a recommended plan that includes an extended landward guidewall with channel modifications to improve navigation safety and to strengthen the Wisconsin embankments through phased construction.

Costs to St. Paul District were \$51,517,300 for operation and maintenance and \$812,127 for rehabilitation; for a total cost of \$52,329,427.

St. Paul District. Work completed: Locks and Dams at St. Anthony Falls and 1 to 10, inclusive, except for relatively minor appurtenant work; major improvements of channels and harbors at St. Paul and Minneapolis; small boat harbors and commercial harbors at Lake City, Red Wing, and Winona, MN; and Prairie du Chien, WI; small-boat harbors at St. Paul, Hastings, Red Wing, Wabasha, Lake City and Winona, MN; Lansing, IA; and Bay City, Alma, Pepin, and Prairie du Chien, WI; a remedial drainage ditch at Cochrane, WI; miscellaneous channel dredging and realignment; channel markers; pool clearing; and construction of various facilities for recreation use.

Status of land and flowage acquisition: Approximately 50,723.747 acres of land in fee, including 47,305 acres used by the Department of the Interior in accordance with a Cooperative Agreement that establishes the Upper Mississippi River Fish and Wildlife Refuge.

Easements for various access rights and flowage inundation are held over 15,571.321 acres. Additionally, the district holds perpetual easements over 244.43 acres of land for small boat harbors. All land interests lie between Upper St. Anthony Falls Lock and Dam located in Minneapolis, Minnesota, and Lock and Dam 10 in Guttenberg, Iowa. The Department of the Army also holds special rights to over 62,954.74 acres of land owned by Department of the Interior in pools 3 to 10, inclusive.

Work remaining to complete portion of project in St. Paul District: Dredged material site acquisitions anticipated for FY 2008 are seven permits and two easements sites. Lock and Dam 3 embankments project requires acquisition of 313 acres for mitigation and 70.6 acres for easement on the embankment and access road.

Rock Island District:

New Work: None.

Maintenance: Channel dredging by Government cutterhead pipeline Dredge *WILLIAM L. GOETZ* was performed at various locations in pools 18 and 22, for a total of 175,240 cubic yards of material removed. Mechanical dredging was performed in pools 11, 15,

MISSISSIPPI RIVER BETWEEN THE MISSOURI RIVER AND MINNEAPOLIS, MN

16 and 24 for a total of 57,687 cubic yards of material being removed. Continuing maintenance contract repairs includes; Lock and Dam 11 Major Maintenance, Lock 19 Major Maintenance, and Multi-Site Facility Protection Upgrades.

Operations and Care: Locks and Dams were operated as required and necessary repairs were made to those and appurtenant structures. Other studies, reports and miscellaneous engineering work were also accomplished.

Operations and Maintenance: Costs to Rock Island District were \$33,911,104 with credits to the project of \$197,004; primarily as a result of collections from towboat companies for damages to navigation structures.

Rehabilitation: Rehabilitation was continued at Locks and Dams 11 and 19 for costs of \$3,581,873 and \$1,548,977, respectively. Inland Waterway Trust Fund costs were \$3,639,000 and \$1,677,309. Total rehabilitation and Inland Waterway Trust Fund (IWTF) costs were \$10,447,929.

Costs to the Rock Island District were \$33,911,104 for operations and maintenance and \$10,447,929 for major rehabilitation (including IWTF) for a total cost of \$44,359,033.

Rock Island District. Work completed: Major construction items including all locks and dams, are completed and in operation. The following related work has also been completed: construction of small-boat harbors at Rock Island, IL; Moline, IL; Andalusia, IL; Warsaw, IL; Fort Madison, IA; Davenport (Lindsay Park), IA; Muscatine, IA; Clinton, IA; and Hannibal, MO; improvement of Beaver Slough at Clinton, IA, for navigation; improvement of commercial harbor at Dubuque, IA; rehabilitation of old auxiliary lock at Lock and Dam 14; permanent closure of old Lock 19 and dry dock; rock and conglomerate excavation in Pools 15 and 16; rectification of seepage damage in the Sny Island Levee Drainage District, IL; recreational facilities; and construction of visitor center at Lock and Dam 15.

Status of land and easement acquisition: Acquisition of land in Pools 11 to 22, inclusive consisting of 93,658.174 acres in fee and 11,694.94 acres in easement, has been completed.

Work remaining to complete portion of project in Rock Island District: None.

St. Louis District:

New Work: Costs incurred for Melvin Price Locks and Dam, formerly Lock and Dam 26 replacement, were \$27,688 for locks; \$292,443 for recreation; \$69,996 for buildings, grounds, and utilities; \$2,818,917 for engineering; \$0 for supervision and administration. Cost for Melvin Price totaled \$3,209,405. Costs incurred for the second lock totaled \$0. Total cost for new work was \$3,209,045.

Rehabilitation: Major rehabilitation is complete at Lock and Dam 25, except for project closeout. FY 2007 costs totaled \$0. Major rehabilitation continued at Lock and Dam 24 at a cost of \$179,199 for the dam; \$2,650,908 for the lock; \$245,432 for engineering; and \$170,069 for supervision and administration. Costs for Lock and Dam 24 totaled \$3,245,608. Total rehabilitation cost \$3,245,608.

Operations and care: The locks and dams were operated as required and necessary repairs were made thereto. Other work accomplished was management of natural resources, operations of recreation areas, condition and operating studies, water control management, and other studies and reports for a total cost of \$8,442,932.

Maintenance: Total maintenance cost \$11,052,657.

Costs to the St. Louis District were \$3,209,045 for new work on the Melvin Price Locks and Dam; \$3,245,608 for major rehabilitation; \$19,495,589 for operation and maintenance for a total cost of \$25,950,242.

St. Louis District. Work completed: Major construction items, including all locks and dams, are completed and in operation, with the exception of the remaining work at Melvin Price.

Status of land and flowage acquisition: Acquisitions of land in Pools 24, 25, and 26, involving 4,448 acres of land in fee and flowage easements over 6,600 acres, is complete. A total of 4,201 acres has been acquired for the Melvin Price Locks and Dam project.

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2007

Work remaining to complete portion of project in St. Louis District: Work remaining at the Melvin Price Locks and Dam project includes punch list items and the implementation of remaining required fish and wildlife mitigation measures for the second lock.

Total Project:

Total Federal costs of existing project to the end of the fiscal year for the three Districts were \$3,209,045 for new work; \$104,923,993 regular funds for operation

and maintenance; and \$8,796,918 regular funds for rehabilitation; \$7,335,521 for IWTF. Total costs for FY 2007 were \$124,260,992.

Condition of channel at end of fiscal year: The controlling depth of nine feet at low water and minimum depths for long-haul common carrier service were maintained in all pools.

MISSISSIPPI RIVER BETWEEN THE MISSOURI RIVER AND MINNEAPOLIS, MN

TABLE 17-A COST AND FINANCIAL STATEMENT

Project	Funding	FY 04	FY 05	FY 06	FY 07	Total Cost to Sep 30, 2007
Mississippi River between Missouri River and Minneapolis, Minnesota (Federal Funds)	New Work: ¹					
	Approp. ²	\$472,800	\$717,000	\$723,000	\$4,341,000	\$1,306,797,229
	Cost ³	466,049	723,827	634,993	3,209,045	1,264,650,198
	Maint: ⁴					
	Approp.	102,221,458	105,021,975	113,068,251	115,208,153	3,984,786,838
	Cost	101,882,924	107,262,051	99,905,637	104,923,993	3,915,884,174
	Rehab:					
	Approp.	9,210,735	6,839,594	15,264,309	18,219,976	314,856,201
	Cost	11,557,751	6,832,839	12,142,403	8,796,918	302,890,948
	(Contributed Funds)	New Work: ⁵				
	Approp.	58,055	0	0	0	3,099,195
	Cost	111,368	0	0	0	3,099,195
(Inland Waterway Trust Fund)	Rehab. ⁶					
	Approp.	8,330,903	4,197,238	15,269,640	18,132,600	118,706,097
	Cost:	\$8,338,607	\$4,193,753	\$11,424,871	\$7,335,521	\$98,957,796

1. Includes \$15,476,259 for new work on previous projects.
2. Includes Melvin Price Locks and Dam funds \$951,411,500.
3. Includes Melvin Price Locks and Dam funds \$950,190,921.
4. Includes \$1,949,301 for maintenance on previous project.
5. Funds from Inland Waterway Trust Fund were included in with Contributed Funds up to 1998.
6. All Inland Waterway Trust Fund.

TABLE 17-B TOTAL COSTS OF EXISTING PROJECT TO SEPTEMBER 30, 2007

District	Cost	Regular Funds	Public Work Funds	Emergency Relief Funds	Total
St. Paul	New Work ¹	\$ 60,184,246 ²	\$24,210,071	\$9,071,214	\$ 93,465,531
	Maintenance ³	1,114,689,922	--	--	1,114,689,922
	Rehabilitation	107,284,955	--	--	107,284,955
	Total	1,282,159,123	24,210,071	9,071,214	1,315,440,408
Rock Island	New Work ⁴	71,307,945 ⁵	17,403,322	11,338,865	100,050,132
	Maintenance ⁶	483,529,802	--	--	483,529,802
	Rehabilitation	143,096,165	--	--	143,096,165
	Total	830,582,148	17,403,322	11,383,865	859,324,335
St. Louis	New Work ⁸	979,295,738	10,282,566	2,440,266	992,018,570
	Maintenance	456,627,591	--	--	456,627,591
	Rehabilitation	93,735,305	--	--	93,735,305
	Total	\$1,529,658,633	\$10,282,566	\$2,440,266	\$1,542,381,465

1. Excludes \$2,041,140 contributed funds. Includes \$7,673 expended in pool No. 11.
2. Includes \$159,359 transferred from Rock Island District covering pro rata share of cost of derrick boat Hercules.
3. Includes \$762,196 expended between 1930 and 1936 on operating and care of works of improvement under provisions of permanent indefinite appropriation for such purposes. Excludes \$797,670 contributed funds.
4. Excludes \$58,999 contributed funds.
5. \$687,709 was transferred to St. Louis District in fiscal year 1958. Excludes \$201,167 transferred to St. Paul and St. Louis Districts covering their pro rata share of cost of derrick boat Hercules.
6. Cost subsequent to FY 1953 included with operating and care. Includes the sum of \$395,442, expended between 1930 and 1934 on the operating and care of the works of improvement under the provisions of the permanent indefinite appropriation for such purposes.
7. Includes \$47,800 transferred from Rock Island District covering pro rata cost of derrick boat Hercules and \$687,709 transferred from Rock Island District.
8. Includes \$950,190,921 for Melvin Price Locks and Dam.

TABLE 17-C

LOCKS AND DAMS

Lock and Dam	Miles Above Ohio River	Miles from Nearest Town	Lock Dimensions			Upper Normal Pool Elevation ¹	Depth on Miter Sill		Character of Foundation Complete		Percent Locks, Dams, and Work in Pool	Year Opened to Navigation	Estimated Cost of Each Lock and Dam Including Work in Pool
			Width of Chamber (feet)	Greatest Length Available for Full Width (feet)	Lift (feet)		Upper (feet)	Lower (feet)	Lock	Dam			
St. Anthony Falls, upper Lock	853.9	In city of Minneapolis, MN	56	400	49.2	799.2	15.7	13.7	Some limestone, mainly sandstone. No piles.	Limestone.	100 ²	--	\$ 18,203,000 ³
St. Anthony Falls, lower Lock and dam	853.3	In city of Minneapolis, MN	56	400	26.9 ⁴	750.0	13.7	10.3	Sandstone. No piles	Sandstone.	100	1959	12,382,000 ⁵
Lock and dam 1	847.6	Minneapolis-St. Paul, MN	56	400	35.9 ⁴	725.1	13.5 ⁴	10.1	Rock and piles in gravel.	Piles in gravel.	100	1917	2,358,000 ⁶
Lock and dam 2	815.2	1.3 above Hastings, MN	56	400	35.9	--	12.5 ⁷	7.6	Piles in sand, silt and clay.	Piles in sand, silt and clay.	100	1930	6,492,000 ⁹
Lock and dam 3	796.9	6.1 above Red Wing, MN	110	500	12.2	687.2	22.2	13.0	Piles in sand, silt and clay.	Piles in sand.	100	1948	5,596,000
Lock and dam 4	752.8	Alma, WI	110	600	8.0	675.0	17.0	14.0	Piles in sand and gravel.	Piles in sand and gravel.	100	1935	4,865,000
Lock and dam 5	738.1	Minneiska, MN	110	600	7.0	667.0	17.0	13.0	Piles in sand and gravel.	Piles in sand.	100	1935	5,081,000
Lock and dam 5A	728.5	3 above Winona, MN	110	600	9.0	660.0	18.0	12.0	Piles in sand.	Piles in sand.	100	1936	4,549,000
Lock and dam 6	714.3	Trempealeau, WI	110	600	5.5	651.0	18.0	12.5	Piles in sand, gravel and silt.	Piles in sand and clay.	100	1936	4,874,000
Lock and dam 7	702.5	Dresbach, MN	110	600	6.5	645.5	17.0	12.5	Piles in sand and gravel.	Piles in sand.	100	1937	5,574,000
Lock and dam 8	679.2	Genoa, WI	110	600	8.0	639.0	18.0	12.0	Piles in sand, gravel and broken rock.	Piles in sand and gravel.	100	1937	6,061,000
Lock and dam 9	647.9	3.3 below Lynxville, WI	110	600	11.0	631.0	22.0	14.0	Piles in sand.	Piles in sand.	100	1938	6,539,000
Lock and dam 10	615.1	Guttenberg, IA	110	600	9.0	620.0	16.0	13.0	Piles in sand.	Piles in sand.	100	1936	4,750,000
Lock and dam 11	583.0	3.7 above Dubuque, IA	110	600	8.0	611.0	15.0	12.0	Piles in sand, gravel and silt.	Piles in sand.	99	1937	7,428,000
Lock and dam 12	556.7	Bellevue, IA	110	600	11.0	603.0	18.5	12.5	Piles in sand and gravel.	Piles in sand and gravel.	99	1938	5,580,000

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MISSISSIPPI RIVER BETWEEN THE MISSOURI RIVER AND MINNEAPOLIS, MN

**TABLE 17-C
(Continued)**

LOCKS AND DAMS

Lock and Dam	Miles Above Ohio River	Miles from Nearest Town	Lock Dimensions			Upper Normal Pool Elevation ¹	Depth on Miter Sill		Character of Foundation Complete		Percent Locks, Dams, and Work in Pool	Year Opened to Navigation	Estimated Cost of Each Lock and Dam Including Work in Pool
			Width of Chamber (feet)	Greatest Length Available for Full Width (feet)	Lift (feet)		Upper (feet)	Lower (feet)	Lock	Dam			
Lock and dam 13	522.5	4.3 above Clinton, IA	110	600	11.0	583.0	19.0	13.0	Piles in sand, clay and gravel.	Piles in sand and gravel.	100	1938	7,502,000
Lock and dam 14	493.3	3.7 below Le Claire, IA	110	600	11.0	527.0	20.5	13.5	Rock.	Rock.	92	1939	6,284,000
Le Claire Lock (Canal)	493.1	3.9 below Le Claire, IA	80	320	11.0	--	17.6	10.9	Rock.	Rock.	100	1922	-- ¹⁰
Lock and dam 15	482.9	Foot of Arsenal Island, Rock Island, IL	110 110	600 360	16.0 16.0	561.0 --	24.0 ¹¹ 17.0 ¹¹	11.0 11.0	Rock.	Rock.	100	1934	14,201,000
Lock and dam 16	457.2	1.8 above Muscatine, IA	110	600	9.0	545.0	17.0	12.0	Piles in sand and gravel.	Piles in sand and gravel.	98	1937	9,788,000
Lock and dam 17	437.1	4.2 above New Boston, IL	110	600	8.0	536.0	16.0	13.0	Piles in sand and gravel.	Piles in sand.	99	1939	5,843,000
Lock and dam 18	410.5	6.5 above Burlington, IA	110	600	9.8	528.0	16.5	13.7	Piles in sand.	Piles in sand.	90	1937	10,308,000
Lock and dam 19	364.2	Keokuk, IA	110 110	358 1,200	38.2	518.2	4.5 5.0	9.2 13.0	Rock.	Rock.	100 99	1913 1957	14,813,000 ¹²
Lock and dam 20	343.2	0.9 above Canton, MO	110	600	10.0	480.0	15.0	12.0	Rock.	Rock and piles in sand and gravel.	97	1936	6,281,000
Lock and dam 21	324.9	2.1 below Quincy, IL	110	600	10.5	470.0	16.5	12.0	Piles in sand and gravel.	Piles in sand and gravel.	95	1938	8,065,000
Lock and dam 22	301.2	1.5 below Saverton, MO	110	600	10.2	459.5	18.0	13.8	Rock.	Rock.	99	1938	5,275,000
Lock and dam 24	273.4	Clarksville, MO	110	600	15.0	449.0	19.0	12.0	Rock and piles.	Piles in sand.	99 ¹⁴	1940	10,337,000
Lock and dam 25	241.4	Cap Au Gris, MO	110	600	15.0	434.0	19.0	12.0	Piles in sand and gravel.	Piles in sand and gravel.	99 ¹⁴	1939	13,694,000
Lock and dam 26 (Henry T. Rainey Dam) ¹⁵	202.9	Alton, IL	110 110	600 360	24.0 24.0	419.0 --	19.0 16.0	10.0 10.0	Piles in sand.	Piles and sand.	100	1938	12,824,000

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**TABLE 17-C
(Continued)**

LOCKS AND DAMS

Lock and Dam	Miles Above Ohio River	Miles from Nearest Town	Lock Dimensions			Upper Normal Pool Elevation ¹	Depth on Miter Sill		Character of Foundation Complete		Percent Locks, Dams, and Work in Pool	Year Opened to Navigation	Estimated Cost of Each Lock and Dam Including Work in Pool
			Width of Chamber (feet)	Greatest Length Available for Full Width (feet)	Lift (feet)		Upper (feet)	Lower (feet)	Lock	Dam			
Melvin Price Locks and Dam	200.8	Alton, IL	110	1,200	24.0	419.0	23.0	18.0	Piles to bedrock.	Piles to bedrock.	98	1990	752,841,000
Melvin Price Locks and Dam (2nd Lock)	200.8	Alton, IL	110	600	24.0	419.0	42.0	18.0	Piles to bedrock.	Piles to bedrock.	99 ¹⁶	1994	211,550,000
Total, Locks and dams													\$1,196,556,000

1. Elevation of Pools 1 to 22 and at St. Anthony Falls are mean sea level 1912 adjustment; Pools 24, 26 are mean sea level 1929 adjustment.
2. Includes existing dam, owned by Northern States Power Co.
3. Includes dredging above upper lock. (Federal cost only.)
4. Based on pool elevation 723.1 in Pool 1 which is crest of dam. Pool is normally maintained at elevation 725.1 by flashboards.
5. Includes lower approach dredging and dredging between upper and lower rock. (Federal cost only.)
6. In addition \$1,948,000 expended from previous projects and \$1,349,600 from O & M appropriation for first of twin locks. Excludes lock and dam rehabilitation program.
7. Old upper guard sill.
8. Landward lock.
9. In addition, \$1,965,300 expended from previous projects.
10. Existing Le Claire Canal lock is used as auxiliary to lock 14; previous project cost \$540,000.
11. Depth over upper poiree sill. Depth over upper miter sill is 27 feet, at lock 15.
12. \$640,868 for first lock was reported by Mississippi River Power Company, transferred to Government free in lieu of improvements destroyed. (Annual Report, 1928, pp. 1118-1119.) Present estimate includes \$13,132,600 for main lock and appurtenant work.
13. Includes cash contribution of \$4,900,000.
14. Complete except for guidewall extensions.
15. Lock and Dam 26 has been replaced by the Melvin Price Locks and Dam at which full pool was raised 1 February 1990. Lock and Dam 26 has been removed.
16. Melvin Price Locks and Dam (2nd Lock) is complete except for the mitigation plan which is required to finalize environmental documentation. Actual cost to date is \$211,446,000. Present estimate includes \$104,000 for mitigation plan.

TABLE 17-D

HARBOR IMPROVEMENTS

Name	Miles above Ohio River	Location	Type	Project depth (feet)	Approximate size (feet)		Percent Complete	Estimated Cost
					Width	Length		
St. Paul Harbor, MN	836.5-839.2 839.7	In city of St. Paul, MN Channel improvement, Small-boat harbor and channel enlargement.	Commercial	9	400-1,000	2.7(mile)	100	\$ 217,100
			Small-boat	5	300	400	100	230,200
Hastings Harbor, MN	813.2	Lower end of city of Hastings, MN	Small-boat	5	200	500	100	74,300
Red Wing Harbor, MN	791.4	In city of Red Wing, MN	Commercial	9	300	1,200	100	146,800 ¹
Red Wing Harbor, MN	791.1	In city of Red Wing, MN	Small-boat	5	450	800	100	8,700
Bay City Harbor, WI	785.9	Upper end of Bay City, WI	Small-boat	5	50-100	5,990	100	39,400 ²
Lake City Harbor, MN	773.0	In city of Lake City, MN	Small-boat	5	400	600	100	93,500
			Commercial ³	9	500	1,000	100	
			Small-boat ³	9	500	850	100	1,077,000 ⁴
Pepin Harbor, WI	767.1	In city of Pepin, WI	Small-boat	5	50	600	100	205,500 ⁵
Wabasha Harbor, MN	760.0	Upper end of city of Wabasha, MN	Small-boat	5	175-400	800	100	41,700
Alma Harbor, WI	751.3	Upper end of Alma, WI	Small-boat	5	300	500	100	56,300
Winona Harbors, MN	726.0	In city of Winona, MN Latsch Island	Small-boat	5	200	1,000	100	89,800
Lansing Harbor, IA	726.2 663.3	Crooked Slough Upper end of city of Lansing, IA	Commercial	9	200	6,000	100	84,700
			Small-boat	5	170	500	100	95,300
Prairie du Chien Harbor, WI	635.5 635.0	Upper end of city of Prairie du Chien, WI In Marais de St. Friel East Channel below Hwy bridges.	Small-boat	5	400	800	100	85,500
			Commercial	9	--	1,000 frontage	100	93,100
Dubuque Harbor, IA	579.4	At Dubuque, IA	Commercial	12	340	1,500	100	55,200
Savanna Harbor, IL	537.3	At Savanna, IL	Small-boat	5	280	910	0	310,000
Clinton Harbor, IA	519.0	At Clinton, IA	Small-boat	5	400	1,400	78	101,912
Moline Harbor, IL	488.0	At Moline, IL	Small-boat	5	230	660	100	110,328
Davenport Harbor, IA (Lindsay Park)	484.2	At Lindsay Park	Small-boat	5	200	1,150	--	262,100
Rock Island Harbor, IL	479.8	At Rock Island, IL	Entrance channel small-boat harbor	6	100	1,100	100	31,000
Andalusia Harbor, IL	473.0	Andalusia Slough	Small-boat	5	40	435	100	21,000
Muscatine Harbor, IA	455.5 455.6	At Muscatine, IA	Small-boat	5	150	950	100	353,000
			Freight terminal approach channel	9	200	1,890	100	
Fort Madison Harbor, IA	383.7	At Fort Madison, IA	Small-boat	5	250	900	100	184,200

**TABLE 17-D
(Continued)**

HARBOR IMPROVEMENTS

Name	Miles above Ohio River	Location	Type	Project depth (feet)	Approximate size (feet)		Percent Complete	Estimated Cost
					Width	Length		
Warsaw Harbor, IL	359.1	At Warsaw, IL	Small-boat	5	100	600	100	73,000
Quincy Harbor, IL	327.3	In Quincy Bay, IL	Small-boat	5	200-300	9,000	0	-- ⁶
Hannibal Harbor, MO	308.8	At Hannibal, MO	Small-boat	5	180-260	600	100	129,000
Total								\$4,269,640

1. In addition, local interests contributed \$3,455.
2. In addition, local interests contributed \$9,533.
3. Commercial harbor converted to small-boat harbor under authority of Section 107 of 1960 River and Harbor Act, as amended. Primary use is small-boat, although some commercial activity exists.
4. In addition, local interests contributed \$812,599.
5. In addition, local interests contributed \$32,344.
6. Maintenance only, estimated at \$5,000 annually.

**TABLE 17-E ADDITIONAL FEATURES ENTERING INTO
COST OF PROJECT**

Facilities for public use, convenience and safety	\$ 3,348,200
Rectification of damages caused by seepage and backwater	7,049,700 ¹
Regulating works between Melvin Price Locks and Dam and Missouri River	545,000
Improvement of Beaver Slough at Clinton, Iowa, for navigation	193,600
Miscellaneous	1,312,900 ²
Total additional features	12,449,400 ³
Total existing project (new work)	\$1,185,534,233

1. Includes a lump-sum payment of \$2,146,800 (O&M appropriation) paid to the Sny Island Levee Drainage District, IL, for rectification of seepage damages. Also includes \$140,000 Construction General funds for project studies, evaluation, and report preparation.
2. Includes \$686,500 for repairs to Stone Arch Bridge, Minneapolis, MN. (FY 1969)
3. Excludes \$227,000 (1965) for inactive remedial measures at Sandy Slough, MO.

**TABLE 17-F LICENSE FEES COLLECTED
FOR FISCAL YEAR 2007**

Dam	Licensee	Annual Charge
St. Anthony Falls Lower Lock and Dam	Northern States Power Co. (No. 2056) (Xcel Energy)	\$ 3,300
Lock and Dam No. 1	Ford Motor Co.	95,440
Lock and Dam No. 2	City of Hastings, MN.	\$23,014

MISSISSIPPI RIVER BETWEEN THE MISSOURI RIVER AND MINNEAPOLIS, MN

TABLE 17-G **AUTHORIZING LEGISLATION**

Acts	Work Authorized	Documents
Sep. 22, 1922 July 3, 1930 as amended by P.R. No. 10, Feb. 24, 1932	MISSISSIPPI RIVER BETWEEN MISSOURI RIVER AND MINNEAPOLIS, MN Dredging channels to landing places. Project adopted from Illinois River to Minneapolis; Chief of Engineers granted discretionary authority to make such modification in plan as may be deemed advisable. ⁴	None H. Doc. 290, 71st Cong., 2d sess.
June 26, 1934	Operation of snag boats and operation and care of locks and dams to be provided for with funds from Department of the Army appropriations for rivers and harbors.	None
Aug. 30, 1935	Missouri River established as lower limit of project.	H. Doc. 137, 72nd Cong., 1st sess.
Aug. 26, 1937	Extension of 9-foot channel above St. Anthony Falls, MN, including adequate terminal facilities for Minneapolis, MN	H. Doc. 137, 72nd Cong. 1st sess.
Aug. 30, 1935	St. Paul, MN harbor.	Rivers and Harbors Committee Doc. 44, 74th Cong., 1st sess.
Aug. 26, 1937	Determine damages to drainage and levee districts caused by seepage and backwater, and cost of making rectification thereof.	Rivers and Harbors Committee Doc. 34, 75th Cong., 1st sess.
Dec. 22, 1944	Public park and recreational facilities.	None
Mar. 2, 1945	Red Wing, MN harbor.	H. Doc. 103, 76th Cong., 1st sess.
Mar. 2, 1945	Remedial works to correct damages caused by seepage and backwater at Cochrane, WI	H. Doc. 137, 76th Cong., 1st sess.
Mar. 2, 1945	Such changes or additions to payments, remedial works, or land acquisitions authorized by River and Harbor Act of Aug. 26, 1937 (River and Harbor Committee Doc. 34, 75th Cong., 1st sess.), as Chief of Engineers deems advisable.	None
Mar. 2, 1945	St. Paul, MN channel enlargements, small boat harbor, and roadway.	H. Doc. 547, 76th Cong., 3rd sess.
None	Vertical bridge clearance at Minneapolis to 26 feet above estimated stage for discharge of 40,000 cfs	S. Doc. 54, 77th Cong., 1st sess.
Mar. 2, 1945	Winona, MN basin.	H. Doc. 263, 77th Cong., 1st sess.
Mar. 2, 1945	Future modification of lock and dam No. 2 for power development.	H. Doc. 432, 77th Cong., 1st sess.
Mar. 2, 1945	Provides for cash contribution by local interests in lieu of alteration of privately owned bridges and utilities for St. Anthony Falls project.	H. Doc. 449, 78th Cong., 2d sess.
July 24, 1946	Lake City, MN harbor.	H. Doc. 511, 79th Cong., 2d sess.
July 24, 1946	Wabasha, MN harbor.	H. Doc. 514, 79th Cong., 2d sess.
July 24, 1946	Payment of damages caused by backwater and seepage, Pools 3 to 11.	H. Doc. 515, 79th Cong., 2d sess.
July 24, 1946	Hastings, MN harbor.	H. Doc. 559, 79th Cong., 2d sess.
July 24, 1946	Lansing, IA harbor.	S. Doc. 192, 79th Cong., 2d sess.
June 30, 1948	Fort Madison, IA harbor.	H. Doc. 661, 80th Cong., 2d sess.
May 17, 1950	Payment of damages caused by pool No. 14 at Clinton, IA.	S. Doc. 197, 80th Cong., 2d sess.
May 17, 1950	Davenport, IA harbor.	H. Doc. 642, 80th Cong., 2d sess.
May 17, 1950	Muscatine, IA harbor.	H. Doc. 733, 80th Cong., 2d sess.
May 17, 1950	Alma, WI harbor.	H. Doc. 66, 81st Cong., 1st sess.

TABLE 17-G **AUTHORIZING LEGISLATION**
(Continued)

Acts	Work Authorized	Documents
May 17, 1950	Hannibal, MO harbor.	H. Doc. 67, 81st Cong., 1st sess.
May 17, 1950	Prairie du Chien, WI harbors.	H. Doc. 71, 81st Cong., 1st sess.
May 17, 1950	Opposite Hamburg, IL harbor. ¹	H. Doc. 254, 81st Cong., 1st sess.
May 17, 1950	Permits such change in location of Winona, MN small boat basin authorized by River and Harbor Act of Mar. 2, 1945 (H. Doc. 263, 77th Cong., 1st sess.), as Chief of Engineers deems advisable.	None
Sep. 3, 1954	Construction of Crooked Slough Harbor at Winona, MN, in lieu of previously authorized commercial harbor.	H. Doc. 347, 83rd Cong., 2d sess.
Sep. 3, 1954	Payment of damages caused by pool No. 24 at Louisiana, MO.	H. Doc. 251, 82nd Cong., 1st sess.
July 3, 1958	Permits modification of vertical bridge clearances and authorizes completion of St. Anthony Falls project.	H. Doc. 33, 85th Cong., 1st sess.
July 3, 1958	Small boat and commercial harbors at Alton, IL. ²	H. Doc. 136, 84th Cong., 1st sess.
July 3, 1958	Payment of lump sum amounts for damages to drainage and levee districts caused by operation of navigation pools.	H. Doc. 135, 84th Cong., 1st sess.
July 3, 1958	Improvement and maintenance of Beaver Slough at Clinton, IA.	H. Doc. 345, 84th Cong., 2d sess.
Mar. 3, 1959	Reconstruction of structures as may be necessary to provide adequate facilities for existing navigation.	None
July 14, 1960	Construction of Industrial Harbor at Red Wing, MN.	H. Doc. 32, 86th Cong., 1st sess.
Oct. 23, 1962	Construction of small-boat harbors at Savanna ² , Moline, Andalusia, New Boston ⁵ , Warsaw, Quincy, and Grafton, IL; Bellevue ¹ , Clinton, Davenport, and Keokuk ³ , IA; St. Paul (Harriet Island), MN ⁵ ; and Bay City, Pepin, and Cassville ⁵ , WI.	H. Doc. 513, 87th Cong., 2d sess.
Oct. 23, 1962	Payment of damages caused by Pool 24 at Clarksville, MO.	H. Doc. 552, 87th Cong., 2d sess.
Oct. 23, 1962	Remedial works at Sandy Slough, MO.	H. Doc. 419, 87th Cong., 2d sess.
Nov. 7, 1966	Repair of Stone Arch Bridge at Minneapolis, MN.	None
Oct. 21, 1978	Replacement of Lock and Dam 26	Public Law 95-502
Dec. 29, 1981	Change name of Lock and Dam 26 to Melvin Price Locks and Dam effective on the date of Melvin Price's death. (Apr. 22, 1988 - date of death)	Public Law 97-118
Nov. 17, 1986	Authorized a second lock at Locks and Dam 26, Alton, Illinois and Missouri	Public Law 99-662
Nov. 28, 1990	Modified PL 95-502 to authorize recreational development at Melvin Price Locks and Dam, requiring no separable project lands and cost sharing.	Public Law 101-640
Oct. 31, 1992	Authorized the construction of a 24,000 square foot regional visitor center at Melvin Price Locks and Dam.	Public Law 102-580
Oct. 12, 1996	Amended PL 101-640 to allow the use of project lands and other contiguous non-project lands.	Public Law 104-303

1. Deauthorized FY 75.
2. Inactive.
3. Deauthorized FY 87 (WRDA of 1986).
4. Guidewalls at Locks 3, 4, 5, 5A, 7, 8, 9, and 10 deauthorized FY 87 (WRDA of 1986).
5. Deauthorized FY 90 (WRDA of 1986).
6. Guidewall extensions at Locks 16, 18, and 21; construction of mooring facilities at Locks and Dams 11, 12, 14, 15, 16, 17, and 18; upper approach improvement at Lock 19 and Lock and Dam 20; and rock and/or conglomerate excavation in Pools 14, 18, and 21 deauthorized FY 90 (WRDA of 1986).