

NEW ENGLAND DISTRICT

The New England District comprises all of New England except western Vermont and small portions of Massachusetts and Connecticut along their western boundaries, and includes small portions of southeastern New York. These areas are all embraced in the drainage basins tributary to Long Island Sound and the Atlantic Ocean east of the New York-Connecticut State line. The District also includes Fishers Island, NY.

IMPROVEMENTS

Navigation	Page	Flood Control (Continued)	Page
1. Aunt Lydia's Cove, Chatham, MA	1-3	34. Charles River (Natural Valley Storage Areas), MA.....	1-14
2. Block Island Harbor of Refuge, RI	1-3	35. Connecticut River Basin, VT, NH, MA and CT.....	1-14
3. Boston Harbor, MA.....	1-3	35A. Ball Mountain Lake, VT.....	1-15
4. Bridgeport Harbor, CT.....	1-4	35B. Barre Falls Dam, MA.....	1-16
5. Bullocks Point Cove, RI.....	1-4	35C. Birch Hill Dam, MA.....	1-16
6. Cape Cod Canal, MA.....	1-5	35D. Colebrook River Lake, CT.....	1-16
7. Carvers Harbor, Vinalhaven, ME.....	1-5	35E. Conant Brook Dam, MA.....	1-16
8. Chatham (Stage) Harbor, MA.....	1-6	35F. Knightville Dam, MA.....	1-17
9. Clinton Harbor, CT.....	1-6	35G. Littleville Lake, MA.....	1-17
10. Cocheco River, NH.....	1-6	35H. North Hartland Lake, VT.....	1-17
11. Connecticut River Below Harford, CT.....	1-7	35I. North Springfield Lake, VT.....	1-17
12. Great Salt Pond, Block Island, RI.....	1-7	35J. Otter Brook Lake, NH.....	1-17
13. Green Harbor, MA.....	1-7	35K. Partridge Brook, Westmoreland, NH.....	1-18
14. Merrimack River, MA.....	1-8	35L. Salmon River, Haddam and East Haddam, CT.....	1-18
15. Mystic River, CT.....	1-8	35M. Surry Mountain Lake, NH.....	1-18
16. Narraguagus River, ME.....	1-8	35N. Townshend Lake, VT.....	1-18
17. New Bedford and Fairhaven Harbor, MA.....	1-9	35O. Tully Lake, MA.....	1-19
18. Newburyport Harbor, MA.....	1-9	35P. Union Village Dam, VT.....	1-19
19. Norwalk Harbor, CT.....	1-9	36. Fox Point Barrier, RI.....	1-19
20. Patchogue River, CT.....	1-10	37. Holmes Bay (Cutler Road), Whiting, ME.....	1-20
21. Point Judith Pond and Harbor of Refuge, RI.....	1-10	38. Housatonic River Basin, CT and MA.....	1-20
22. Portland Harbor, ME.....	1-11	38A. Black Rock Lake, CT.....	1-20
23. Providence River and Harbor, RI.....	1-11	38B. Hancock Brook Lake, CT.....	1-20
24. Sesuit Harbor, MA.....	1-11	38C. Hop Brook Lake, CT.....	1-20
25. Warwick Cove, RI.....	1-12	38D. Northfield Brook Lake, CT.....	1-21
26. Westport River, MA.....	1-12	38E. Thomaston Dam, CT.....	1-21
27. Weymouth-Fore and Town River, MA.....	1-12	39. Merrimack River Basin, NH and MA.....	1-21
28. Navigation Work Under Special Authorization ...	1-13	39A. Blackwater Dam, NH.....	1-21
Beach Erosion Control		39B. Edward MacDowell Lake, NH.....	1-22
29. Seabrook Harbor, NH.....	1-13	39C. Franklin Falls Dam, NH.....	1-22
30. Inspection of Completed Beach Erosion Control Projects	1-13	39D. Hopkinton-Everett Lakes, NH.....	1-22
31. Beach Erosion Control Work Under Special Authorization	1-13	40. New Bedford, Fairhaven and Acushnet, MA.....	1-22
Flood Control	Page	41. Pleasant Point, Perry, ME.....	1-23
32. Blackstone River Basin, MA and RI.....	1-13	42. Stamford, CT.....	1-23
32A. West Hill Dam, MA.....	1-13	43. Thames River Basin, CT, RI, and MA.....	1-23
33. Blackwater River, Salisbury, MA.....	1-14	43A. Buffumville Lake, MA.....	1-23
		43B. East Brimfield Lake, MA.....	1-23
		43C. Hodges Village Dam, MA.....	1-24

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

Flood Control (Continued)	Page
43D. Mansfield Hollow Lake, CT	1-24
43E. West Thompson Lake, CT	1-24
43F. Westville Lake, MA	1-24
44. Town Brook, Quincy and Braintree, MA	1-25
45. Vermont Dams Remediation, VT	1-25
46. Woonsocket, RI	1-25
47. Inspection of Completed Flood Control Projects	1-25
48. Flood Control Reservoir Operations	1-26
49. Hurricane Barrier Operations.....	1-27
50. Flood Control Work Under Special Authorization	1-27

Environmental

51. Allin’s Cove, Barrington, RI.....	1-27
52. Broad Meadows Marsh, Quincy, MA.....	1-28
53. Mill River, Stamford, CT.....	1-28
54. Nashawannuck Pond, Easthampton, MA.....	1-28
55. Ninigret and Cross Mills Ponds, Charlestown, RI	1-28
56. Stewart’s Creek, Barnstable, MA	1-29
57. Ten Mile River, RI.....	1-29
58. Town Pond (Boyd’s Marsh), Portsmouth, RI	1-29
59. Environmental Restoration Work Under Special Authorization	1-30

General Investigations

60. Surveys	1-30
61. Collection and Study of Basic Data	1-30
62. Planning, Engineering and Design.....	1-30
63. Preconstruction Engineering and Design.....	1-31

Regulatory Program

64. Regulatory Program.....	1-31
-----------------------------	------

FUSRAP

65. Combustion Engineering, Windsor, CT.....	1-31
66. Shpack Landfill, Norton and Attleboro, MA	1-31

Tables	Page
Table 1-A Cost & Financial Statement.....	1-32
Table 1-B Authorizing Legislation	1-46
Table 1-C Other Authorized Navigation Projects.....	1-53
Table 1-D Other Authorized Beach Erosion Control Projects	1-57
Table 1-E Other Authorized Flood Control Projects.....	1-58
Table 1-F Other Authorized Multiple-Purpose Projects including Power	1-61
Table 1-G Other Authorized Environmental Projects.....	1-61
Table 1-H Deauthorized Projects.....	1-62
Table 1-I Navigation Activities Pursuant to Sec. 107	1-65
Table 1-J Mitigation of Navigation Projects Pursuant to Sec. 111	1-65
Table 1-K Beach Erosion Activities Pursuant to Sec. 103	1-66
Table 1-L Flood Control Activities Pursuant to Sec. 205	1-66
Table 1-M Emergency Bank Protection Activities Pursuant to Sec. 14	1-66
Table 1-N Environmental Improvement Activities Pursuant to Sec. 1135	1-66
Table 1-O Aquatic Ecosystem Restoration Activities Pursuant to Sec. 206.....	1-67
Table 1-P Beneficial Use of Dredged Material Activities Pursuant to Sec. 204.....	1-67
Table 1-Q Blackstone River Basin	1-68
Table 1-R Connecticut River Basin	1-69
Table 1-S Housatonic River Basin	1-71
Table 1-T Merrimack River Basin	1-72
Table 1-U Thames River Basin.....	1-73
Table 1-V Reconnaissance and Condition Surveys.....	1-74

Navigation

1. AUNT LYDIA'S COVE, CHATHAM, MA

Location. Aunt Lydia's Cove is located in Chatham Harbor, Chatham, Massachusetts. The cove is located on the "elbow" of Cape Cod approximately 90 miles southeast of Boston, Massachusetts. (See National Ocean Service Coast Survey Chart 13248.)

Existing project. Project provides for an entrance channel 8 feet deep and 100 feet wide for a length of 900 feet and a 9.5-acre anchorage also to a depth of 8 feet. Project was completed in June 1995. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. The Chatham Municipal Fish Pier is the only terminal facility in Aunt Lydia's Cove. Initially constructed in 1945, the pier is used to offload catch, access boats, load supplies and perform some repairs. Two independent fish companies lease space at the pier's main packing facility where fish are offloaded, packed in ice and shipped to various distributors. The pier provides diesel fuel, gasoline, parking, and restroom facilities. Transient and recreational boaters use the pier for loading, offloading, and refueling. Facility is adequate for existing commerce.

Operations during fiscal year. Maintenance: Dredging of the Federal channel was performed by the Government-owned dredge CURRITUCK from June 26, 2009 to July 1, 2009. About 11,745 cubic yards of sand were removed and placed in two near shore disposal areas; one southeast of the dredging area and outside the outer bar, and the other off Andrews Harding Beach. Plant rental cost was \$46,800. Hired labor costs were \$12,954 for performing and plotting surveys.

2. BLOCK ISLAND HARBOR OF REFUGE, RI

Location. Block Island Harbor of Refuge is located on the east side of Block Island, 13 miles southwest of Point Judith Harbor, Rhode Island, and about 25 miles southeasterly of Stonington Harbor, Connecticut. (See National Ocean Service Coast Survey Charts 13215 and 13217.)

Existing project. Project provides for two rubble-mound breakwaters inclosing an area of about 800 square feet, the east breakwater extending northerly about 1,950 feet from the shore and the west breakwater extending northeasterly about 1,100 feet; a "T" shaped stone jetty, 140 feet long and 100 feet wide, located about 600 feet southeast of the east

breakwater; masonry walls in the southeast corner of the inner harbor inclosing an area of about 300 square feet designated as the basin; and steel sheet pile bulkhead, 225 feet long, constructed on the east side of the 15-foot basin. The project includes a 15-foot entrance channel, anchorage and basin area. The project was completed in 1916 except for dredging of two 15-foot anchorages in the outer harbor west of the entrance channel, which were deauthorized in November 1986. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. Block Island Harbor of Refuge contains the ferry terminal receiving goods and passengers from Point Judith, Rhode Island and subsequently serves as the only subsistence harbor for the island. There is also a small fleet of commercial and charter fishing vessels berthed in this harbor. The project serves as a Harbor of Refuge for vessels navigating Block Island Sound during severe storms.

Operations during fiscal year. Maintenance: Continued environmental coordination and preparation of contract plans and specifications to repair the bulkhead and wharf located along the east side of the 15-foot basin. Hired labor costs included \$40,447 for developing plans and specifications, \$6,000 for environmental coordination and \$19,150 for project management. In addition, maintenance dredging of the Federal channel was performed by the Government-owned dredge CURRITUCK from June 17 to 24, 2009. About 7,674 cubic yards of sand were removed and placed in a near shore disposal site off of Crescent Beach. Dredging plant rental cost was \$65,520. Hired labor costs associated with dredging included \$45,951 for surveys and \$23,996 for project management and environmental coordination.

3. BOSTON HARBOR, MA

Location. Boston Harbor includes all expanse of tidewater lying within a line from Point Allerton to Point Shirley and extending from that line westward to the mainland. This comprises an area of about 47 square miles, exclusive of the islands. (See National Ocean Service Coast Survey Charts 13270 and 13272.)

Existing project. Completed work at Boston Harbor, adopted in 1825 and supplemented by enactments through 1962, provides for the improvement of the harbor proper and its approaches - Fort Point Channel, Reserved Channel, Chelsea River and Weir River. For a more detailed description see page 3 of the Annual Report for 1974. These improvements were completed in May 1966 with the

construction of the Chelsea River 35-foot channel and maneuvering basin. Work adopted in 1990 involves deepening the Mystic River and Reserved Channels from 35 to 40 feet and the Chelsea River Channel from 35 to 38 feet; widening and deepening to 40 feet the Inner Confluence Area which provides access to the Mystic and Chelsea River Channels; and widening at the entrance to the Reserved Channel. This work was completed in December 2001. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work. A Project Cooperation Agreement was signed on May 29, 2007 between the Corps and the Massachusetts Port Authority for cost sharing the construction of the first confined aquatic disposal (CAD) cell necessary for project maintenance. Consistent with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986 and amended by the Water Resources Development Act of 1996, the non-Federal sponsor must pay 25 percent of the cost to construct any new dredged material disposal facilities necessary for project maintenance, and to reimburse an additional 10 percent of the cost to construct dredged material disposal facilities (partially offset by a credit allowed for the value of lands, easements, rights-of-way, and relocations) within a period of 30 years following completion of construction.

Terminal facilities. There are 156 wharves and piers in the harbor, not including Mystic, Weymouth-Fore, and Town Rivers which are reported elsewhere. Of the terminals, 28 are publicly owned, 13 are open to public use, 70 have railroad connections and 73 have mechanical-handling facilities. Facilities are considered adequate for existing commerce. For a full description of channel facilities in Chelsea River, refer to House Document 350, 87th Congress, 2nd session. (See Port Series No. 3, Part 2, Port of Boston, MA dated 1967.)

Operations during fiscal year. New work: Preliminary lands, easements, rights-of-way, and utility relocations (LERR) costs were identified; however, the sponsor had asked to delay finalizing LERR costs until the Keyspan gas line was removed and those costs included in the final cost sharing calculations. An option for removal of the Keyspan gas line was included in the contract awarded September 28, 2007 for maintenance dredging of the Inner Harbor. The option was exercised at sponsor cost and the Keyspan gas line was removed in December 2008. Final LERR costs were identified, the sponsor provided all required funds including the additional 10 percent reimbursement and the project was financially closed.

Maintenance: A contract for maintenance dredging of the Inner Harbor was awarded on September 28, 2007 to Great Lakes Dredge and Dock Company. The base contract included dredging portions of the Main Ship Channel, the

upper Reserved Channel and the approach channel to the Navy Dry Dock along with construction of a Confined Aquatic Disposal (CAD) cell. Dredging work began in April 2008 and was completed in December 2008, with the exception of capping the CAD cells. Contractor earnings total \$16,283,059, of which \$4,380,403 was earned this FY. Approximately 322,970 cubic yards of material were removed to construct the first CAD cell and 393,330 cubic yards to construct a supplemental CAD cell in the Main Ship Channel. A total of 319,880 cubic yards of material was dredged this FY from the Inner Harbor, of which 156,925 was placed in the CAD cell and 162,955 was suitable for ocean disposal. Capping of the CAD cells is scheduled to be completed in January 2010.

4. BRIDGEPORT HARBOR, CT

Location. Bridgeport Harbor is located on the north shore of Long Island Sound, about 51 miles east of New York City. (See National Ocean Service Coast Survey Chart 12369.)

Existing project. For a description of the completed improvements see the Annual Report for 1968. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work. There is no reasonable prospect that required cooperation will be forthcoming from local interests for the breakwaters at Black Rock Harbor and the Burr and Cedar Creek anchorages. For further details see the Annual Report for 1968.

Terminal facilities. There are 35 waterfront facilities serving the port of Bridgeport. Three wharves are owned by the City of Bridgeport. (See Port and Terminal Facilities of Southern New England No. 4, revised in 1952.) Facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: The draft Dredged Material Management Plan (DMMP) and Environmental Assessment were submitted to North Atlantic Division in January 2009 for review and approval for public release. The DMMP and Environmental Assessment were approved for public release on 15 September 2009. The DMMP identifies and evaluates suitable placement alternatives for dredged material from the Federal project.

5. BULLOCKS POINT COVE, RI

Location. Bullocks Point Cove is located along the east shore of the Providence River about three-quarters of a mile above the head of Narragansett Bay and 4.5 miles south of Providence Harbor. The lower one-half mile of the cove, covering approximately 100 acres, is separated from the

NEW ENGLAND DISTRICT

Providence River by a small peninsula extending southeasterly from the mainland to Bullocks Point. (See National Ocean Service Coast Survey Chart 13224.)

Existing project. For a description of the existing project see the Annual Report for 1974. Construction of the project was completed in May 1959. Dike and jetty construction was initiated in June 1958 and completed in September 1958. Improvement dredging of the 8-foot channel, 6-foot anchorage and 6-foot turning basin was initiated in January 1959 and completed in May 1959. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. There are three boatyards and one marina that offer supply, repair and service facilities to the general public. These private interests offer cove moorings, berthing areas and spaces for land storage during winter months. Additional moorings are available for the general public in the anchorage areas controlled and supervised by the harbormaster. A public landing ramp was constructed in the Cove for use by the general public as a condition of local cooperation in conjunction with project authorization.

Operations during fiscal year. Maintenance: A contract to dredge Bullocks Point Cove was awarded to Village Dock Incorporated of Port Jefferson, New York on September 25, 2009, in the amount of \$837,000. Work had not begun by FY end. Hired labor costs included \$13,145 for surveys.

6. CAPE COD CANAL, MA

Location. This waterway is a sea level canal; extending from the head of Buzzards Bay, Massachusetts, easterly to a point on Cape Cod Bay about 15 miles southeast of Plymouth Harbor, Massachusetts. (See National Ocean Service Coast Survey Charts 13236 and 13246.)

Existing project. For a description of existing project see the Annual Report for 1975. Navigational improvements were completed in April 1963, with completion of the East Boat Basin extension. Initial recreational development consists of public use facilities at various locations, which were completed in February 1965. Improvements to public use facilities at the East Boat Basin were completed in May 1974. Construction of public use facilities at Bourne Scenic Park were completed in May 1976. Two high-level highway bridges and a vertical-lift railroad bridge cross Cape Cod Canal. Major rehabilitation of the Bourne Highway Bridge was completed in December 1965 and major rehabilitation of the Sagamore Highway Bridge was completed in 1980. Minor rehabilitation of the stone breakwater was completed in October 1963. Major rehabilitation of the vertical-lift

railroad bridge was completed in November 2004. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work. Local interests must also bear 50 percent of future recreational development in accordance with the 1965 Federal Water Project Recreation Act.

Terminal facilities. There are seven terminals on the canal, three of which are privately owned. Four are used for receipt and freezing of fish and two for receipt and storage of oil. The seventh terminal is the State pier, which is owned by the Commonwealth of Massachusetts and is located on the north bank of the canal at Bourne Neck. Terminals are adequate for existing commerce.

Operations during fiscal year. Maintenance: The cost of operation and maintenance work at the Cape Cod Canal totaled \$9,584,230, including \$4,898,833 for navigation and \$1,651,961 for recreation facilities. Total costs included \$72,742 for real estate activities, \$621,164 for periodic inspections, \$607,458 for engineering and design, \$155,178 for environmental compliance and \$71,773 for supervision and inspection of contracts including those described below. A contract to replace the railroad signal system was awarded on June 4, 2008. Work began in October 2008 and was about 70 percent complete at FY end. Contractor earnings total \$760,612, of which \$732,333 was earned this FY. A contract to furnish and install a new marine fueling system was awarded September 27, 2008. Work began in November 2008 and was completed in April 2009. Final contract amount was \$155,160. A contract for deck repairs and paving of the Bourne and Sagamore Highway Bridges was awarded on July 22, 2009. Work began the following month and was about 10 percent complete at FY end with contractor earnings of \$617,630. A contract to dredge the canal was awarded to Great Lakes Dock and Dredge on April 20, 2009. A contract to construct an addition to the boat shop and replace fencing along the canal was awarded on September 25, 2008. A contract to repair the tug, MANAMET, was awarded on September 29, 2009. Work on these three contracts had not begun by FY end.

7. CARVERS HARBOR, VINALHAVEN, ME

Location. Carvers Harbor is located at the southeastern end of Vinalhaven Island, at the mouth of Penobscot Bay, about 15 miles east of Rockland, Maine. (See National Ocean Service Coast Survey Chart 13305.)

Existing project. The project provides for a 16-foot anchorage of about 23 acres; two 10-foot anchorage areas totaling about 7 acres located along the south side of the harbor, a 10-foot anchorage of about 3-acres located

adjacent to the main waterfront along the north side of the harbor and a 6-foot access channel and turning basin at the inner end of the harbor. The project was completed in May 1964. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. The area depends on ferry service which carries cargo, automobiles and passengers to and from Rockland, Maine. This service is run by the Maine Port Authority out of a terminal located along the west side of the inner harbor. A large fleet of lobster fishermen and numerous transient recreational boats operate out of Carvers Harbor. There are 23 wharves in the harbor, four of which have marine railways. Two wharves are publicly owned and open to the public. These facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: Work in anticipation of maintenance dredging continued with hired labor costs of \$11,100 incurred for project management and environmental coordination.

8. CHATHAM (STAGE) HARBOR, MA

Location. Chatham Harbor is located at the northeastern corner of Nantucket Sound about 16 miles east of Hyannis Harbor, Massachusetts and 66 miles south of Providence Harbor, Rhode Island. The harbor lies at the southeastern extremity of Cape Cod. (See National Ocean Service Coast Survey Charts 13237 and 13248.)

Previous project. For details see the Annual Report for 1942.

Existing project. Project provides for an entrance channel 10 feet deep and 150 feet wide from Chatham Roads to the upper harbor. Construction of the existing project was completed in October 1957. By 1961, a break in the barrier beach connecting Morris and Monomoy Islands caused the Federal channel to fill in completely. Local interests dredged an emergency channel to obtain an 8-foot depth in June 1962 and performed additional dredging in 1963. Minimal maintenance dredging by the Federal Government in April and May 1964 provided access to the inner harbor for the 1964 boating season. A new 10-foot channel through Harding Beach to Morris Island was completed in July 1965. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. The town operates a wharf on the north side of the inner harbor which is leased out to commercial users. Facilities are considered adequate for existing commerce.

Operations during fiscal year. Maintenance: Dredging of the entrance channel was performed by the Government owned dredge CURRITUCK from July 2 to July 10, 2009. About 28,330 cubic yards of sand were removed and placed in a near shore disposal area off Harding Beach. Plant rental cost was \$101,400. Hired labor costs included \$15,198 for performing and plotting surveys.

9. CLINTON HARBOR, CT

Location. Clinton Harbor is located along the north shore of Long Island Sound, about 10 miles west of the mouth of the Connecticut River and about 20 miles east of New Haven Harbor, Connecticut. (See National Ocean Service Coast Survey Charts 12374 and 12354.)

Existing project. Project provides for an 8-foot channel from deep water in Long Island Sound to the upper end of the wharves at Clinton Harbor, and an anchorage area of the same depth opposite the wharves. The project also provides for the maintenance of a stone dike closing a breach in the sandy peninsula which separates the river from the outer harbor. Project was completed in 1950. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. There are several small private wharves, some of which are open to the public. These facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: Work in anticipation of maintenance dredging continued with hired labor costs of \$4,700 incurred for project management and environmental coordination.

10. COCHECO RIVER, NH

Location. The Cocheco River is located about 9 miles northwest of Portsmouth, New Hampshire. (See National Ocean Service Coast Survey Chart 13285.)

Existing project. Provides for a 7-foot tidewater channel 60 to 75 feet wide (7.5 feet deep and 30 feet wide in rock), extending from the confluence of the Cocheco and Piscataqua Rivers to the head of navigation in Dover, New Hampshire. Work was completed in 1906. (See Table 1-B for Acts authorizing the existing project.)

NEW ENGLAND DISTRICT

Local cooperation. Fully complied with for completed work. The City of Dover constructed the Dredged Material Disposal Facility (DMDF) necessary for maintenance of the project at an estimated cost of \$3,900,000. A Memorandum of Agreement was signed with the City of Dover on July 19, 2004 for payment of a tipping fee for use of the City's DMDF. The fee will be based on 80 percent of the City's cost to construct that portion of the facility used for disposal of material dredged from the Federal navigation project.

Terminal facilities. The channel is used primarily by recreational craft based at a marina located near the head of the waterway.

Operations during fiscal year. Maintenance: It was agreed, in coordination with project stakeholders, to maintain the remainder of the Federal channel to a depth of 6 feet instead of the authorized 7 feet. The reduced depth would adequately serve all current and potential future users of the channel. Insufficient funds were available to award a contract to complete dredging of the Federal channel. Available funds were used to maintain coordination with project stakeholders and various resource agencies. Hiring labor costs associated with project coordination and management totaled \$23,015.

11. CONNECTICUT RIVER BELOW HARTFORD, CT

Location. The Connecticut River has its source at Connecticut Lake in northern New Hampshire, then flows southerly about 380 miles to Long Island Sound. Navigation extends about 52 miles upstream from the mouth of the river in Saybrook to Hartford, Connecticut. (See National Ocean Service Coast Survey Charts 12375, 12377 and 12378.)

Existing project. For a description of the existing project and authorizing legislation, see the Annual Report for 1995.

Local cooperation. Fully complied with for completed work.

Terminal facilities. Along both the Connecticut and Eightmile Rivers there are two to three wharves at each riverside town, one or more of which are open to public use. Facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: A contract for dredging of North Cove was awarded on September 15, 2008 to Burnham Associates of Salem, Massachusetts. Maintenance dredging began on November 5, 2008 and was completed on May 11, 2009. There was a temporary shut-down during the winter to coordinate this dredging effort with work at Norwalk Harbor. A total of 172,785 cubic

yards of material were dredged from North Cove, of which 97,785 cubic yards were placed at the Cornfield Shoals Disposal Site and the balance was brought to the Central Long Island Sound Disposal Site and used to cap dredged material from Norwalk Harbor. Capping of the Norwalk Harbor material was a State of Connecticut requirement and the additional cost to bring the North Cove material to the Central Long Island Sound Disposal Site was paid for by the City of Norwalk. Final contract amount was \$4,026,842, of which \$954,000 was associated with capping efforts and paid for by the city. Hiring labor costs included \$45,000 to perform contract supervision and project management.

12. GREAT SALT POND, BLOCK ISLAND, RI

Location. Great Salt Pond is located on the west shore of Block Island, about 11 miles southwest from Point Judith Harbor, Rhode Island and 18 miles southeasterly from Stonington Harbor, Connecticut. (See National Ocean Service Coast Survey Charts 13215 and 13217.)

Existing project. The project provides for an entrance channel 18 to 25 feet deep and 150 to 300 feet wide from the Atlantic Ocean to Block Island Pond; a riprap jetty extending 1,691 feet along the southerly side of the entrance channel; and a stone revetment and sand fences to protect the shoreline and beaches. The south jetty was completed in 1905. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. None required for completed work.

Operations during fiscal year. Maintenance: Dredging of the Federal channel was performed by the Government-owned dredge CURRITUCK from May 26 to June 16, 2009. About 30,316 cubic yards of sand were removed and placed at a near shore disposal site adjacent to Sachem Pond on the west side of the island. Dredging plant rental cost was \$213,330. Hiring labor costs included \$8,953 for project management and coordination.

13. GREEN HARBOR, MA

Location. Green Harbor is located within the town of Marshfield on the west side of Massachusetts Bay, about 30 miles southeast of Boston, Massachusetts, and 9 miles north of Plymouth Harbor, Massachusetts. (See National Ocean Service Coast Survey Chart 13253.)

Existing project. For a description of the existing project see the Annual Report for 1995. Construction was completed in October 1969. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. The major terminal facility is the Town Pier in the village of Brant Rock. The facility is an earth-filled bulkhead with landing and parking area about 290 feet wide, extending 210 feet into harbor. A marina service is south of the Town Pier; and a facility for recreational craft has been developed on the south side of the harbor near the head of navigation.

Operations during fiscal year. Maintenance: A contract for maintenance dredging of the 8 foot deep and 6 foot deep entrance channel as well as the 6 foot deep anchorage area was awarded on September 30, 2009. The contract was awarded to Cashman Dredging and Marine Contracting of Quincy, Massachusetts in the amount of \$1,635,625. Work is scheduled to begin early next FY. Hired labor costs included \$28,840 for surveys.

14. MERRIMACK RIVER, MA

Location. The Merrimack River originates at the confluence of the Pemigewasset and Winnepesaukee Rivers in Franklin, New Hampshire. The river flows southerly through Concord, Manchester and Nashua, New Hampshire; then northeasterly through Lowell, Lawrence and Haverhill, Massachusetts; and enters the Atlantic Ocean at Newburyport Harbor, about 35 miles northeast of Boston, Massachusetts. (See National Ocean Service Coast Survey Chart 13274.)

Existing project. The project provides for channel 7 feet deep and 150 feet wide extending upstream a distance of about 16.5 miles from the Newburyport Highway Bridge at the head of Newburyport Harbor to the railroad bridge in Haverhill. The project was completed in 1907. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. Recreational boat facilities are located along the lower river, primarily in the communities of Amesbury and Newburyport, Massachusetts.

Operations during fiscal year. Maintenance: A small population of short nosed sturgeon, a federally endangered species, was found in the river. The estimated population of 33 adults is one of the smallest identified and thus vulnerable to extirpation. Further efforts to perform maintenance dredging of the federal navigation project were put on hold indefinitely.

15. MYSTIC RIVER, CT

Location. The Mystic River is a 6-mile long tidal inlet, which forms the boundary between the towns of Stonington and Groton, Connecticut. It then flows southerly through the villages of Mystic and West Mystic, Connecticut where it broadens into Mystic Harbor. The Mystic River is located about 6 miles east of New London, Connecticut. (See National Ocean Service Coast Survey Chart 13214)

Existing project. The project consists of a 15-foot channel, 125 feet wide, from Fishers Island Sound to Murphy Point, located approximately 600 feet below the railroad bridge; then, 100 feet wide to the highway bridge; then a 12-foot channel, 100 feet wide, to a point 700 feet above the Marine Historical Association Wharf. The project includes a 9-foot anchorage basin situated southwest of Murphy Point and a 9-foot turning basin situated northwest of the railroad bridge. The upper 0.75 mile of the channel, which was not constructed to full project width, was deauthorized in November 1986. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. Facilities include a town wharf at Noank, along with numerous small private wharves, some of which are open to the public. A small public boat terminal near the shopping center of Mystic was provided under the terms of required local cooperation. The project also serves the Mystic Historic Seaport.

Operations during fiscal year. Maintenance: Sediment sampling and testing was performed to characterize material to be dredged. Contract costs of \$115,678 were incurred for sediment sampling and testing. Hired labor costs of \$4,997 were incurred for environmental coordination and \$8,697 for project management and contract administration.

16. NARRAGUAGUS RIVER, ME

Location. The Narraguagus River originates in Eagle Lake and flows southeasterly about 49 miles to Narraguagus Bay and the Atlantic Ocean. (See National Ocean Service Coast Survey Chart 13324.)

Existing project. The project provides for a channel 11 feet deep and 150 feet wide from deep water in Narraguagus Bay to Wyman, then 9 feet deep and 100 feet wide to Milbridge, and then 6 feet deep and 100 feet wide to the landing downstream from the Route 1A Highway Bridge. The project includes three 6-foot anchorage areas adjacent to the 6-foot channel in Milbridge, two 9-foot anchorages and an 11-foot anchorage adjacent to the 11-foot channel

NEW ENGLAND DISTRICT

between Wyman and Jordan Pier, and a 6-foot turning basin near the landing in Milbridge. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. There are four major wharves along the Narraguagus River. One is on the east bank, a short distance downstream of the Route 1A Highway Bridge, two are on the west bank in Milbridge, and the fourth is near the mouth of the river at Wyman. The upper and lower piers are municipally owned. The others are privately owned. All are in fair condition. Facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: A contract for maintenance dredging of the 11-foot west anchorage, 6-foot southwest anchorage, and a portion of the 11-foot channel adjacent to the 11-foot anchorage was awarded on September 29, 2009 to Prock Marine Company of Rockland, Maine for \$1,369,100. Work had not begun by FY end. Hired labor costs associated with the project were \$18,573 for preparation of contract plans and specifications, \$19,992 for surveys and \$919 for contract processing.

17. NEW BEDFORD AND FAIRHAVEN HARBOR, MA

Location. New Bedford Harbor is a tidal estuary located on the western side of Buzzards Bay, about 27 miles northwesterly from the harbor at Vineyard Haven, Massachusetts and about 37 miles east of Point Judith Harbor, Rhode Island. (See National Ocean Service Coast Survey Chart 13232.)

Existing project. The project provides for a channel 30 feet deep and 350 feet wide from deep water in Buzzards Bay to just above the New Bedford-Fairhaven Bridge, nearly 5 miles, with increased widths for anchorage and maneuvering purposes in the area northwest of Palmer Island and above the bridge; a channel 25 feet deep and 200 to 250 feet wide along the New Bedford wharf front near the bridge, about 0.2 miles; a channel 15 feet deep and 150 to 400 feet wide from Pierce and Kilburn Wharf to the Old South Wharf, then 10 feet deep and 150 feet wide to a point 1,000 feet south of the old causeway pier, about 0.7 miles; and for the maintenance of the 25-foot anchorage area east of the channel north of Palmer Island. The project was completed in 1939. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. There are 31 wharves in the harbor with a total berthing space of about 19,000 feet. Seven are publicly owned, five have railroad connections and seven have mechanical handling facilities. These facilities are considered adequate for existing commerce.

Operations during fiscal year. Maintenance: Initiated preparation of an Environmental Assessment for proposed maintenance dredging of the Federal channel.

18. NEWBURYPORT HARBOR, MA

Location. Newburyport Harbor is located at the mouth of the Merrimack River, about 4 miles south of the Massachusetts and New Hampshire state line and about 48 miles north of Boston, Massachusetts. (See National Ocean Service Coast Survey Chart 13282.)

Existing project. See the Annual Report for 1994 for a description of the existing project. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. Facilities extending along the south bank of the Merrimack River below the Route 1 highway bridge include several marinas, a yacht club, public landing and a commercial fish pier. There are four marinas and one town pier located along the north side of the river. Terminal facilities are considered adequate for existing commerce.

Operations during fiscal year. Maintenance: Work consisted of investigations for proposed maintenance dredging of the 15-foot entrance channel. Hired labor costs associated with this work included \$4,334 for project management, \$13,644 for environmental coordination and \$39,474 for surveys and plotting. In addition, hired labor costs of \$17,376 were incurred for initial coordination and design efforts associated with the proposed maintenance of the south jetty.

19. NORWALK HARBOR, CT

Location. Norwalk Harbor is located on the north shore of Long Island Sound, about 10 miles east of New York City. (See National Ocean Service Coast Survey Chart 12368.)

Existing project. For a description of the existing project and authorizing legislation, see the Annual Report for 1973. The project was completed in 1950.

Local cooperation. Fully complied with for completed work. A Project Cooperation Agreement was signed on June 28, 2005 between the Corps and the City of Norwalk for cost sharing the construction of confined aquatic disposal (CAD)

cells necessary for project maintenance. Consistent with the cost sharing and financing concepts reflected in the Water Resources Development Act of 1986, the non-Federal sponsor must pay 10 percent of the cost to construct any new dredged material disposal facilities necessary for project maintenance, and to reimburse an additional 10 percent of the cost to construct dredged material disposal facilities within a period of 30 years following completion of construction.

Operations during fiscal year. Maintenance: A base bid contract, along with two optional items, for maintenance dredging of Norwalk Harbor was awarded to Cashman Dredging and Marine Contracting on September 29, 2008. Work involved dredging the 6-foot east channel and turning basin, the 10-foot south anchorage to 6 feet, and portions of the 12-foot channel. Work began on October 25, 2008 and was completed on January 31, 2009. Final contract amount was \$4,983,111. A total of 195,042 cubic yards of primarily silt was removed by mechanical dredge and placed at the Central Long Island Sound Disposal Site located about 35 miles away. As a condition of the Water Quality Certificate, this material was required to be capped with 75,000 cubic yards of dredged material from North Cove. Capping was completed on May 15, 2009 at a total cost of \$954,000. Because the state requirement for capping was more stringent than Federal requirements, the City of Norwalk was responsible for all capping costs. Hired labor costs associated with maintenance dredging were \$97,334 for surveys, \$158,090 for construction supervision including travel, \$7,190 for project management and \$2,688 for contract administration.

20. PATCHOGUE RIVER, CT

Location. Patchogue River is a small tidal stream about 3 miles long located in the town of Westbrook, Connecticut. The mouth of the river is located along the north shore of Long Island Sound, about 7 miles west of the Connecticut River. (See National Ocean Service Coast Survey Charts 12374 and 12354.)

Existing project. See the Annual Report for 1984 for a description of the existing project. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. See the Annual Report for 1984 for a description of terminal facilities.

Operations during fiscal year. Maintenance: Initiated preparation of contract plans and specifications for proposed maintenance dredging of the project.

21. POINT JUDITH POND AND HARBOR OF REFUGE, RI

Location. Point Judith marks the southwestern entrance to Narragansett Bay. The harbor lies in a shallow bight west of the point, about 14 miles southwest of Newport Harbor, Rhode Island, and 33 miles east of New London Harbor, Connecticut. Point Judith Pond is a shallow salt pond, lying inland of the beach, with a length north and south of about four miles. A small artificial opening through the beach and sand dunes connects this pond to the ocean. (See National Ocean Surveys Charts 13218 and 13219.)

Previous project. For details see Annual Report for 1948.

Existing project. See the Annual Report for 1977 for a description of the existing project and list of authorizing legislation. All work for the project authorized prior to 1949 was completed in 1950. Breakwaters were completed in 1914 and dredging of shoals in project area was done in 1921. Major reconstruction of the east arm breakwater and main breakwater dock facilities were completed in 1962. Rehabilitation required for remainder of breakwater restoration was completed in October 1963. The extension of the 15-foot channel was completed in April 1977.

Local cooperation. Fully complied with for completed work.

Terminal facilities. Facilities consist of one town wharf of steel sheet pile bulkhead construction, which comprises the southern and eastern limits of the basin. Total docking space amounts to 500 feet. No mechanical handling facilities are available. The wharf is owned by the town and is open to the public. The State of Rhode Island maintains two piers, one in Galilee and one in Jerusalem, each having about 500 feet of berthing space. A facility comprising a bulkhead with 15 finger piers provides berthing space of about 4,000 linear feet. This facility is used for receipt of fish and fish products. Mechanical handling facilities, including fish pumps, are available for discharge of cargo. In addition, there are approximately ten small privately owned wharves used in the fishing business and passenger traffic. Facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: A contract for maintenance dredging of the 15-foot entrance channel and a small portion of the 6-foot channel in Point Judith Pond was awarded on September 25, 2009 to Village Dock Incorporated of Port Jefferson, New York for \$978,000. Dredging is expected to commence early in FY 2010. Hired labor costs associated with this work included \$25,143 for preparation of plans and specifications, \$5,202 for surveys, \$4,429 for contract administration and \$29,532 for project management. Additionally, hired labor costs of \$108,233

were incurred to continue a study of the main breakwater comprising the outer Harbor of Refuge to evaluate its effectiveness and to make recommendations whether the structure requires major rehabilitation.

22. PORTLAND HARBOR, ME

Location. Portland Harbor is located on the southwestern coast of Maine, about 100 miles northeast of Boston, Massachusetts. (See National Ocean Service Coast Survey Chart 13292.)

Existing project. For a description of the existing project and authorizing legislation, see the Annual Report for 1978. The project was completed in 1966, except for ledge removal that was completed in 1968.

Local cooperation. Fully complied with for completed work.

Terminal facilities. There are 37 waterfront facilities, seven of these facilities are publicly owned; the U.S. Government owns four, the State of Maine owns two, and the City of South Portland owns one. Mechanical-handling facilities are available at 24 wharves and railroad connections have been made to 27 wharves. The facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: Hired labor costs associated with proposed maintenance dredging of the 35-foot entrance channel were \$10,981 for environmental coordination with resource agencies, \$8,800 for surveys and \$679 for project management.

23. PROVIDENCE RIVER AND HARBOR, RI

Location. The Providence River originates in Providence, Rhode Island at the junction of the Woonasquatucket and Moshassuck Rivers. It then flows southerly about a mile to the head of Providence Harbor at Fox Point where it is joined by the Seekonk River and continues southerly another 8 miles to Narragansett Bay. (See National Ocean Service Coast Survey Charts 13224 and 13225.)

Existing project. The project provides for a channel 16.8 miles long and 40 feet deep, generally 600 feet wide from deep water in Narragansett Bay just south of Prudence Island Light to the turn below Field Point at Providence, thence up to 1,700 feet wide to Fox Point. The existing 40-foot channel was completed in January 1976. Dredging of a 30-foot channel, 150 feet wide from the upper end of the existing project to India Point at the mouth of the Seekonk River was deauthorized in November 1986. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work. A Project Cooperation Agreement was signed on November 26, 2002 between the Corps and the Governor of Rhode Island for cost sharing the construction of confined aquatic disposal (CAD) cells necessary for project maintenance. The State of Rhode Island is required to provide all lands, easements, rights-of-way and relocations (LERR) necessary for project maintenance; pay 25 percent, during construction, of the total cost to construct those portions of the CAD cells used for the disposal of material dredged from the Federal navigation project; and reimburse an additional 10 percent of the total cost to construct those portions of the CAD cells used for the disposal of material dredged from the Federal navigation project, partially offset by a credit allowed for the value of LERR, within the 30-year period following completion of construction.

Terminal facilities. There are 27 water terminal facilities serving the port of Providence, Rhode Island. Three-fourths of all facilities have railway connections. The City of Providence owns four of these facilities and the State of Rhode Island owns two others. Facilities are adequate for existing commerce.

Operations during fiscal year. Maintenance: A contract for removal of rock areas from the Federal project was awarded on March 15, 2007 to RDA Construction. Work was initiated on June 20, 2007 and completed in October 2008. The contractor removed a total of 454 cubic yards of rock, including a 254 cubic yard overrun. Final contract amount was \$1,914,144, of which \$858,592 was paid this FY. The Water Resources Development Act of 1996 authorized maintenance dredging of the shallow upper reach of the Providence River extending from the Fox Point Hurricane Barrier upstream about 1.3 miles to the vicinity of the Francis Street Bridge, subject to economic and environmental justification. Costs of \$69,991 were incurred to initiate sampling and testing of the proposed dredged material, the results of which will be used to develop disposal alternatives and conduct environmental and economic analysis as required by the authorization.

24. SESUIT HARBOR, MA

Location. Sesuit Harbor is located on the north shore of Dennis in Barnstable County, about 85 miles southeast of Boston, Massachusetts. (See National Ocean Service Coast Survey Chart 13250.)

Existing project. The project provides for a channel 6 feet deep and 100 feet wide from deep water in Cape Cod Bay to a point opposite the Dennis Yacht Club, thence reducing in width to 80 feet at the entrance to the inner harbor basin, for a total channel length of 2,400 feet. Project was completed in August 1982. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Operations during fiscal year. Maintenance: Dredging of the entrance channel was performed by the Government-owned dredge CURRITUCK from July 11 to July 26, 2009. About 23,170 cubic yards of sand were removed and placed in a near shore area off Cold Storage Beach. Plant rental cost was \$159,120.

25. WARWICK COVE, RI

Location. Warwick Cove is located on the northeast shore of Greenwich Bay, about 10 miles south of Providence, Rhode Island. (See National Ocean Service Coast Survey Chart 13224.)

Existing project. Project provides for an entrance channel 6 feet deep and 150 feet wide from deep water in Greenwich Bay into and through the lower portion of the cove, then 100 feet wide to the head of navigation. Project also includes four anchorage areas, 6 feet deep and totaling 13 acres. Two acres are in the vicinity of Oakland Beach Park, five acres are on each side of the lower channel and one acre is at the head of the cove. Project was completed in August 1966. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Operations during fiscal year. Maintenance: Continuing efforts to determine the feasibility of realigning the entrance channel were delayed awaiting stakeholder information regarding current project use and alignment concerns.

26. WESTPORT RIVER, MA

Location. The Town of Westport is located in Bristol County in southeastern Massachusetts along the Rhode Island state line, about 30 miles southeast of Providence, Rhode Island. The Westport River flows through the Town of Westport and empties into the Atlantic Ocean just west of Horseneck Beach. (See National Ocean Service Coast Survey Chart 13228.)

Previous projects. The previous project provides for the removal of obstructions in the East and West Branches of the Westport River to a depth of 7 feet and construction of a stone jetty on the west end of Horseneck Beach. For additional details see the Annual Report of 1942.

Existing project. The existing project provides for an entrance channel, 9 feet deep and 150 to 200 feet wide, extending from deep water in the Atlantic Ocean up the Westport River a distance of about 9,700 feet to deep water

in Westport Harbor. Project was completed in December 2007. (See Table 1-B for Acts authorizing the project.)

Local cooperation. A Project Cooperation Agreement was signed on August 30, 2007 between the Corps and the Massachusetts Department of Conservation and Recreation. The project sponsor must provide all lands, easements, rights-of-way, and perform all relocations determined by the Government to be necessary for project construction; provide 10 percent of total General Navigation Feature (GNF) costs during construction; reimburse an additional 10 percent of total GNF costs within a period not to exceed 30 years following completion of construction (partially offset by a credit allowed for the value of lands, easements, rights-of-way, and relocations); and shall operate and maintain the local service facilities in a manner compatible with the authorized purposes of the project.

Terminal facilities. Facilities located around the harbor include the Westport Town pier and docks, a marina, two yacht clubs and a boat yard. The harbor also contains three boat launch ramps and smaller boating facilities. During the summer boating season, the harbor contains about 1,300 recreational vessels which are docked evenly at slips and moorings. The harbor has a full-time commercial fishing fleet of about 36 vessels. Facilities are considered adequate for present harbor activities.

Operations during fiscal year. New Work: Final costs were apportioned between the Federal and non-Federal accounts and the project was financially closed.

27. WEYMOUTH-FORE AND TOWN RIVER, MA

Location. The project is located along the southeastern limit of Boston Harbor. (See National Ocean Service Coast Survey Chart 13270.)

Existing project. The project provides for a 35-foot channel extending from deep water in Nantasket Roads through Hingham Bay and up the Weymouth Fore River to about 3,000 feet upstream of the Fore River Bridge. The 35-foot channel also extends up the Town River from its confluence with the Weymouth Fore River to the head of Town River Bay. The project also includes a 35-foot turning basin in Town River Bay, a 35-foot turning and maneuvering basin at the confluence of the two rivers and King Cove, an 8-foot anchorage area in Town River Bay, a 15-foot channel extending from the turning basin in Town River Bay to just below the Quincy Electric Light and Power substation, and a 6-foot channel extending from the 35-foot channel in Weymouth Fore River 8,000 feet upstream to the Quincy Avenue Bridge. The project was completed in July 1983. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Terminal facilities. Weymouth-Fore River has nine wharves all grouped near the head of Federal improvements. Construction consists mainly of pile and timber piers extending from timber or concrete bulkheads. There are 6,092 feet of berthing space available. Six of the wharves have railroad connections and seven mechanical handling facilities. Five of the wharves are used in connection with a large shipyard, two with oil terminals, one with an electric generating plant, one with a large soap manufacturing plant and two with yacht clubs. On the south bank of the Town River are 9 wharves, 4 of which are used for boat building and repair work, 3 are used for receipt of petroleum products and one for receiving scrap materials. On the north bank of the river is a yacht building and repair yard. There are no publicly owned wharves. Facilities are considered adequate for the present needs of commerce.

Operations during fiscal year. Maintenance: Project condition surveys were performed at a total cost of \$14,200.

28. NAVIGATION WORK UNDER SPECIAL AUTHORIZATION

Navigation activities pursuant to Section 107, Public Law 86-645, as amended (preauthorization).

(See Table 1-I)

Mitigation of damages caused by Federal navigation projects pursuant to Section 111, Public Law 90-483 as amended (preauthorization).

(See Table 1-J)

Beach Erosion Control

29. SEABROOK HARBOR, NH

Location. The town of Seabrook is located along the coast of New Hampshire on the state border with Massachusetts. Seabrook Harbor is located at the mouth of the Blackwater River just south of Hampton Harbor. The two harbors share a common inlet to the ocean. (See National Ocean Service Coast Survey Charts 13274 and 13278.)

Existing project. See the Annual Report for 2007 for a description of the existing project. Construction of the project was completed in April 2005. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Operations during fiscal year. New work: Funds to complete as-built drawings were not received. Further efforts are on hold.

30. INSPECTION OF COMPLETED BEACH EROSION CONTROL PROJECTS

No beach inspections were conducted in FY 2009.

31. BEACH EROSION CONTROL WORK UNDER SPECIAL AUTHORIZATION

Beach erosion control activities pursuant to Section 103, Public Law 87-874, as amended (preauthorization).

(See Table 1-K)

Flood Control

32. BLACKSTONE RIVER BASIN, MA AND RI

Works covered by this plan include a dam and reservoir on the West River and local protection works at three sites along the Blackstone River. The Flood Control Act of 1944 authorized the plan for construction of a reservoir on the West River and local protection works at Worcester, Massachusetts, and Woonsocket and Pawtucket, Rhode Island, substantially in accordance with House Document 624, 78th Congress, 2nd session. The Flood Control Act of 1960 authorized a local flood protection project at lower Woonsocket, Rhode Island, substantially in accordance with Senate Document 87, 85th Congress, 2nd Session. A nonstructural local protection project was authorized in 1982 for the Belmont Park section of Warwick, Rhode Island, along the Pawtuxet River. Stream bank protection projects on the Blackstone River in Millbury, Massachusetts, and on the Clear River in Burrillville, Rhode Island, were authorized and constructed in accordance with Section 14 of the 1946 Flood Control Act. (See Table 1-Q for projects comprising the authorized plan.)

32A. WEST HILL DAM, MA

Location. West Hill Dam is located on the West River in Massachusetts, about three miles above its confluence with Blackstone River and 2.5 miles northeast of Uxbridge, Massachusetts. (See Geological Survey maps Blackstone, MA and RI, Milford, MA, and Grafton, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant structures was initiated in June 1959 and completed in June

1961. Construction of recreational facilities was completed in June 1967. Major rehabilitation of the dam was completed in July 2003.

Local cooperation. Section 3, Flood Control Act of 1944 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract for an intensive cultural resource survey was awarded on June 19, 2009. Work began in August 2009 and was about 60 percent complete at FY end with contractor earnings of \$103,849.

33. BLACKWATER RIVER, SALISBURY, MA

Location. The town of Salisbury is located along the Atlantic coastline about 45 miles northeast of Boston, Massachusetts. The Blackwater River is a 3.1 mile long tidal inlet that forms a salt marsh in the northeastern corner of Salisbury, Massachusetts.

Existing project. Project involves the construction of about 2,765 feet of concrete floodwall with an average height of 2-3 feet. Most sections of the wall would have a landside berm. The project includes construction of two pumping stations to discharge interior run-off. The project will reduce the risk of frequent flooding of several low lying areas along the Blackwater River in Salisbury, Massachusetts. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Partnership Agreement was signed on May 21, 2009 between the Corps and the Massachusetts Department of Conservation and Recreation. The sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for construction of the project; pay a cash contribution in the amount necessary to bring the non-Federal share of project costs to 35 percent; assume all costs in excess of the Federal statutory limitation of \$7,000,000; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: Efforts included negotiation of a Project Partnership Agreement and initiation of project design.

34. CHARLES RIVER (NATURAL VALLEY STORAGE AREAS), MA

Location. The Charles River extends inland from Boston Harbor southwesterly toward the Massachusetts-Rhode

Island border and is some 80 miles long with a watershed covering 307 square miles.

Existing project. For a description of the existing project and authorizing legislation, see the Annual Report for 1995. Land acquisition was completed in 1990.

Local cooperation. Local interests are required to prevent modifications or alteration of existing roadways, utilities, bridges, culverts, and any other improvements that might affect the drainage characteristics of the natural storage areas; adopt and enforce regulations to restrict development of flood plain lands; and operate and maintain the existing dams along the Charles River. Local assurances were provided by the Commonwealth of Massachusetts.

Operations during fiscal year. Maintenance: Hired labor costs for ordinary maintenance activities, project surveillance and inspection, and land use administration were \$348,775. A contract for an intensive cultural resource survey was awarded on June 19, 2009. Work began in August 2009 and was about 15 percent complete at FY end with contractor earnings of \$69,990.

35. CONNECTICUT RIVER BASIN, VT, NH, MA AND CT

The Flood Control Act of 1936, as amended by Act of May 25, 1937, authorized construction of ten reservoirs on tributaries of Connecticut River in accordance with plans in House Document 412, 74th Congress, 2nd session, as the same may be revised upon further investigation of 1936 flood. Flood Control Act of 1938 approved a general comprehensive plan for control of floods and other purposes in Connecticut River Valley, as set forth in House Document 455, 75th Congress, 2nd session, and authorized \$11,524,000 for construction of local flood protection projects in the plan. Act of October 15, 1940, modified Act of June 18, 1938, to provide additional protection at East Hartford, Connecticut, as set forth in House Document 653, 76th Congress, 3rd session. Act of August 18, 1941, modified comprehensive plan approved in 1938 to include improvements recommended in House Document 653, 76th Congress, 3rd session, and House Document 724, 76th Congress, 3rd session, with such further modifications as may be found justifiable in discretion of Secretary of the Army and Chief of Engineers. Latter Act also authorized to be appropriated additional \$6 million for local protection works and \$10 million for reservoirs. Act of October 26, 1942, further modified plan by including construction of Gully Brook conduit at Hartford, Connecticut. Flood Control Act of 1944 authorized expenditure of \$30 million in addition to previous authorization for comprehensive plan approved in 1938 and modified plan by directing specific consideration of an alternative plan of Vermont State Water Conservation Board instead of Williamsville Reservoir in

NEW ENGLAND DISTRICT

West River Basin, Vermont; directing consultation with affected States during the course of the investigations and transmission of proposal and plans to each affected State for written views and recommendations for reservoir projects heretofore authorized for construction at Cambridgeport, Ludlow, South Tunbridge, and Gaysville, and resubmission of projects or modifications for construction of Sugar Hill site. Flood Control Act of 1950 modified project for flood control at Hartford, Connecticut, authorized by Flood Control Act of 1938, as amended to include Folly Brook dike and conduit. Flood Control Act of 1954 modified plan for flood control in Connecticut River Basin to provide for construction of a reservoir on Otter Brook at South Keene, New Hampshire in lieu of any reservoir or reservoirs heretofore authorized. This Act further modified plan for West River Basin of Connecticut River in Vermont to consist of three reservoirs at Ball Mountain, The Island, and Townshend sites, in lieu of plan of eight reservoirs authorized in Flood Control Act of 1944. The Flood Control Act of 1958 modified the plan for flood control in the Connecticut River Basin to include construction of Littleville Reservoir on the Middle Branch of the Westfield River in Massachusetts, and the Mad River Reservoir on the Mad River above Winsted, Connecticut. The Flood Control Act of 1960 included authorization in the Connecticut River Basin of a plan for flood protection on the Chicopee River in Massachusetts, substantially in accordance with House Document 434, 86th Congress; plan for flood protection on the Westfield River in Massachusetts, substantially in accordance with Senate Document 109, 86th Congress; and a plan for flood control and related purposes on the Farmington River in Connecticut, substantially in accordance with House Document 443, 86th Congress. The Flood Control Act of 1968 included authorization in the Connecticut River Basin of a plan for construction of Beaver Brook Reservoir on Beaver Brook in Keene, New Hampshire, substantially in accordance with Senate Document 60, 90th Congress; and a plan for protection on the Park River in Connecticut, substantially in accordance with Senate Document 43, 90th Congress. The Flood Control Act of 1970 deauthorized the construction of a reservoir at Claremont, New Hampshire. The Water Resources Development Act of 1976 deauthorized the construction of Gaysville Lake in Vermont. Flood control projects at Cambridgeport Lake, Brockway Lake, Victory Lake, South Tunbridge Lake, Ludlow Lake and The Island Lake, Vermont; Honey Hill Lake, West Canaan Lake, and the Alternative to Sugar Hill Reservoir, New Hampshire were deauthorized in August 1977 in accordance with Section 12 of the Water Resources Development Act of 1974. The authorization for the Beaver Brook Lake, New Hampshire project expired in April 1978 due to lack of local cooperation. Local protection projects at Wethersfield, and Haddam and East Haddam, Connecticut; Gardner and West Springfield, Massachusetts; Hartford, Vermont; and Keene, New Hampshire were authorized and constructed in

accordance with Section 205 of 1948 Flood Control Act. Emergency stream bank erosion control projects at Colchester, Middletown, Milford, and Simsbury, Connecticut; Conway, and Huntington, Massachusetts; Charleston, North Stratford, and Westmoreland, New Hampshire; and Brownsville, Vermont; were authorized and constructed in accordance with Section 14 of the 1946 Flood Control Act. The Water Resources Development Act of 1986 modified the comprehensive plan for the control of flood-waters in the Connecticut River Basin, Vermont, New Hampshire, Massachusetts, and Connecticut, authorized by Section 5 of the Act of June 22, 1936 (49 Stat. 1572) by authorizing the design, construction, operation, and maintenance of facilities at Townshend Dam on the West River in Vermont to enable upstream migrant adult Atlantic salmon to bypass that dam and Ball Mountain Dam, Vermont, and to provide at both Townshend and Ball Mountain Dams facilities as necessary for the downstream passage of juvenile Atlantic salmon. This work was completed in February 1993. (See Table 1-R at end of chapter for reservoirs and local protection works for Connecticut River Basin.)

35A. BALL MOUNTAIN LAKE, VT

Location. The Dam is on West River, 29 miles above its junction with Connecticut River at Brattleboro, Vermont. It is two miles north of Jamaica, VT. (See Geological Survey map for Londonderry, VT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1994. Construction of the dam and appurtenant works was initiated in May 1957 and completed in November 1961. Cost of work was \$10,448,000 for construction and \$350,000 for lands and damages, a total of \$10,798,000. Construction of recreation facilities was initiated in June 1975 and completed in June 1977. Fish passage facility work began in June 1992 and was completed in February 1993. The project is a unit of comprehensive plan for flood control and other purposes in Connecticut River Basin.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Major rehabilitation: Efforts continued on a dam safety and assurance study to investigate embankment settlement, slope movement and seepage conditions. Subsurface explorations of the lower rockfill zone and abutments, along with surveys of the downstream embankment, toe and access areas were performed to develop a plan of remedial repairs. Additional crest settlement points have been established and several slope inclinometers have been automated to adequately monitor embankment performance during high pools.

Maintenance: Ordinary operation and maintenance activities were conducted.

35B. BARRE FALLS DAM, MA

Location. Barre Falls Dam is located on the Ware River in the Town of Barre, Massachusetts, about 32 miles above the confluence of the Ware and Swift Rivers, and 13 miles northwest of Worcester, Massachusetts. (See Geological Survey maps for Barre, MA and Wachusett Mountain, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in May 1956 and completed in May 1958.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to replace the toe drains along dikes two and three was awarded on June 5, 2008. Work began later that month and was about 90 percent complete at FY end. Contractor earnings totaled \$162,473, of which \$28,894 was earned this FY. Contracts to repair and paint the spillway and service bridges and to repair Pine Plains Bridge were awarded on September 29, 2009. Work on these two contracts had not begun by FY end.

35C. BIRCH HILL DAM, MA

Location. Birch Hill Dam is located on the Millers River, 27.3 miles above its junction with the Connecticut River. The dam is 1.3 miles east of South Royalston, Massachusetts and 7.5 miles northwest of Gardner, Massachusetts. (See Geological Survey maps for Royalston and Winchendon, MA-NH and Templeton, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in June 1940 and completed in February 1942.

Local cooperation. Section 2, Flood Control Act of 1938 applies. Local interests have contributed \$32,000 as their required 50 percent cost sharing of recreational development in accordance with 1965 Federal Water Project Recreation Act.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to cap and close the former Royalston Dump was awarded on August 29, 2008. Work began in October 2008

and was completed in May 2009. Final contract amount was \$149,044, all of which was earned this FY. A contract to replace the gatehouse roof was awarded on September 28, 2009. A contract to repair the service gate guides and rollers was awarded on September 29, 2009. Work under these two contracts had not begun by FY end.

35D. COLEBROOK RIVER LAKE, CT

Location. Colebrook River Dam is located in the Town of Colebrook, Connecticut, in Litchfield County on the West Branch of the Farmington River about 3.9 miles upstream from its confluence with the Still River in Riverton, Connecticut, and about 1.5 miles upstream from Goodwin (Hogback) Dam. (See Geological Survey map for Winsted, CT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in May 1965 and completed in June 1969. Construction of recreation facilities was initiated in August 1969 and completed in June 1970.

Local cooperation. A water supply contract was signed by the Hartford Connecticut Metropolitan Water District. Repayment is being made in accordance with provisions of the 1958 Water Supply Act.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to repair and paint the Old Route 8 Bridge was awarded on June 23, 2009. Work began in July 2009 and was about 30 percent complete at FY end with contractor earnings of \$119,907.

35E. CONANT BROOK DAM, MA

Location. Conant Brook Dam is located in south central Massachusetts in the Town of Monson. The dam is located across Conant Brook about two miles southeast of the community of Monson, Massachusetts. (See Geological Survey map for Monson, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam, highway relocations, and appurtenant works was initiated in June 1964 and completed in December 1966.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

35F. KNIGHTVILLE DAM, MA

Location. Knightville Dam is located on the Westfield River, 27.5 miles above its confluence with the Connecticut River. The dam is four miles north of Huntington, Massachusetts, and about 12 miles west of Northampton, Massachusetts. (See Geological Survey map for Westhampton, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in August 1939 and completed in December 1941.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to replace the gatehouse roof was awarded on September 28, 2009. A contract to replace the gate roller chains was awarded on September 30, 2009. Work on these two contracts had not begun by FY end.

35G. LITTLEVILLE LAKE, MA

Location. Littleville Dam is located in Chester, Massachusetts, on the Middle Branch of the Westfield River, one mile above its confluence with the main stem of the Westfield River and 25.2 miles above the confluence of the Westfield and Connecticut Rivers. (See Geological Survey map for Chester, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated under a multi-component contract in June 1962 and completed in September 1965.

Local cooperation. Section 2, Flood Control Act of June 28, 1938, and Title III, Water Supply Act of 1958 apply and were fully complied with.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to replace the gatehouse and intake tower roofs was awarded on September 28, 2009. Work had not begun by FY end.

35H. NORTH HARTLAND LAKE, VT

Location. North Hartland Dam is located on the Ottauquechee River, about 1.5 miles above its junction with the Connecticut River, and one-mile northwest of North

Hartland, Vermont. The reservoir extends upstream 5.5 miles. (See Geological Survey map for Hanover NH-VT.)

Existing project. For a description of completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam was initiated in June 1958 and completed in June 1961.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to pave portions of the access road was awarded on September 26, 2007. Work began in November 2007 and was completed in June 2008. Final contract amount was \$265,949, of which \$6,188 was paid this FY.

35I. NORTH SPRINGFIELD LAKE, VT

Location. North Springfield Dam is located on the Black River in the Town of Springfield, Vermont, about 8.7 miles above its junction with the Connecticut River, and about three miles northwest of Springfield, Vermont. (See Geological Survey maps for Ludlow, VT, and Claremont, NH.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam was initiated in May 1958 and completed in November 1960.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

35J. OTTER BROOK LAKE, NH

Location. Otter Brook Dam is located on Otter Brook, about 2.4 miles upstream from its junction with the Branch, which flows about 2.5 miles to the Ashuelot River at Keene, New Hampshire. (See Geological Survey maps for Keene, NH-VT, and Monadnock, NH.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in September 1956 and completed in August 1958. Major rehabilitation involving construction of a new concrete weir using mechanical fuseplugs was completed in June 2006.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to install erosion control measures along the borrow area was awarded on September 23, 2009. Work had not begun by FY end.

35K. PARTRIDGE BROOK, WESTMORELAND, NH

Location. The project is located along the east bank of the Connecticut River at its confluence with Partridge Brook in the Town of Westmoreland, New Hampshire. The Cheshire County municipal wastewater treatment lagoon is located adjacent to the erosion site.

Existing project. Project provides for the construction of approximately 180 linear feet of concrete block and stone slope protection along the east bank of the Connecticut River, and 160 linear feet of steel sheeting along the south bank of Partridge Brook adjacent to the municipal wastewater treatment lagoon. The project prevents further undermining and possible collapse of the lagoon embankment. Construction of the project was completed in June 2008. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on May 16, 2007 between the Corps and the County of Cheshire, New Hampshire. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction. The project sponsor must also pay a minimum cash contribution of 5 percent of total project costs during construction; pay an additional cash contribution during construction so that the total contribution including lands equals 35 percent of total project costs; assume all costs in excess of the Federal statutory cost limitation of \$1,000,000; and bear all costs for maintenance and repair of the project after completion.

Operations during fiscal year. New work: A contract for construction of emergency stream bank protection measures was awarded on July 6, 2007. Work began in August 2007 and was completed in June 2008. Final contract amount was \$712,153, of which \$5,165 was earned this FY.

35L. SALMON RIVER, HADDAM AND EAST HADDAM, CT

Location. The Salmon River is located in south central Connecticut. The river originates in the town of Hebron and flows southwesterly about 20 miles to its confluence with the Connecticut River. Leesville Dam is located on the Salmon River about 4 miles upstream from the Connecticut

River along the town line between Haddam and East Haddam, Connecticut.

Existing project. Project provides for the construction of a pier-type ice control structure across the Salmon River about 200 feet upstream of Leesville Dam. The structure retains ice breakup and reduces downstream flooding. Construction of the project was completed in July 2008. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on February 18, 2005 between the Corps and the Connecticut Department of Environmental Protection. The sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for construction of the project; pay a cash contribution in the amount necessary to bring the non-Federal share of project costs to 35 percent; assume all costs in excess of the Federal statutory limitation of \$7,000,000; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: Initiated financial close-out of project.

35M. SURRY MOUNTAIN LAKE, NH

Location. Dam is on Ashuelot River, 34.6 miles above its junction with Connecticut River and five miles north of Keene, New Hampshire. (See Geological Survey maps for Keene and Bellows Falls, NH-VT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in August 1939 and completed in June 1942. Additional recreational facilities were completed in September 1969 and 1980.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to resurface the access road and parking areas was awarded on July 8, 2008. Work began the following month and was completed in September 2008. Final contract amount was \$418,841, of which \$39,189 was paid this FY.

35N. TOWNSHEND LAKE, VT

Location. Townshend Lake Dam is located on the West River, 19.1 miles above its junction with the Connecticut River at Brattleboro, Vermont, and about two miles west of

NEW ENGLAND DISTRICT

Townshend, Vermont. The reservoir extends upstream about four miles. (See Geological Survey maps for Saxtons River, VT, and Londonderry, VT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1994. Townshend Lake Reservoir is operated as a unit of a coordinated system for flood control in Connecticut River Basin. Construction of the dam and appurtenant works was initiated in November 1958 and completed in June 1961. Additional recreational facilities were completed in October 1969 and September 1971. Fish passage facility work began in June 1992 and was completed in February 1993.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

350. TULLY LAKE, MA

Location. Tully Lake Dam is located on the East Branch of Tully River, about 3.9 miles above its junction with the Millers River. The dam lies about one mile north of Fryville, Massachusetts, and 3.5 miles north of Athol, Massachusetts. (See Geological Survey map for Royalston, MA-NH.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam was initiated in March 1947 and completed in September 1949.

Local cooperation. Section 2, Flood Control Act of 1938 applies. Local interests must also bear 50 percent of future recreational development, in accordance with 1965 Federal Water Project Recreational Act.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract to repair the spillway bridge and Doane Hill Road Bridge was awarded on June 5, 2008. Work began later that month and was completed in October 2008. Final contract amount was \$182,684, of which \$22,504 was earned this FY. A contract to repair the service gates was awarded on September 29, 2009. Work under this contract had not begun by FY end.

35P. UNION VILLAGE DAM, VT

Location. Union Village Dam is located on the Ompompanoosuc River, about four miles above its junction with the Connecticut River. The dam lies about one-fourth mile north of Union Village, Vermont, and 11 miles north of

White River Junction, Vermont. (See Geological Survey maps for Strafford, VT and Mount Cube, NH-VT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam was initiated in March 1947 and completed in June 1950.

Local Cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

36. FOX POINT BARRIER, RI

Location. The Fox Point Barrier is located on the Providence River at Fox Point, in the City of Providence, Rhode Island.

Existing project. For description of completed project see the Annual Report for 1974. Construction of the barrier was completed in January 1966. The Water Resources Development Act of 1999 directs the Secretary to undertake necessary repairs to the barrier as identified in the Condition Survey and Technical Assessment dated April 1998, with Supplemental dated August 1998. Necessary repairs include overhauling pumps, replacing tainter gate roller chains, cleaning and painting tainter gates and repairing lower guide bearing diffuser cracks. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work. A Project Cooperation Agreement was signed on April 8, 2002 between the Corps and the City of Providence. The City must provide 35 percent of eligible repair costs and assume all costs in excess of Federal appropriations.

Operations during fiscal year. Major rehabilitation: The City of Providence initiated repair work in January 1998. Work completed to date includes rehabilitation of the 5 pumps, canal gates, emergency gates and taintor gate chains. Reimbursements by the Corps to the City of Providence for eligible repair work total \$2,104,791, none of which was paid this FY. Remaining work includes miscellaneous concrete repairs, replacing the pumping station roof, painting the taintor gates and replacing the electrical mechanical system. Further work by the city is on hold pending transfer of operation and maintenance of the project to the Corps in accordance with Section 2866 of the National Defense Authorization Act of 2007.

Maintenance: Worked with the City of Providence to identify all lands and structures necessary to operate and maintain the project. The city plans to transfer ownership of the project to the Corps in FY 2010.

37. HOLMES BAY (CUTLER ROAD), WHITING, ME

Location. Whiting is located in eastern Maine about 10 miles south of the Canadian border. The project site is located along Cutler Road (Route 191), which connects the coastal Towns of Machiasport, Whiting and Cutler, Maine.

Existing project. Project provides for the construction of approximately 500 linear feet of stone slope protection along the shoreline of Holmes Bay adjacent to Cutler Road (Route 191). The project protects against further undermining and possible collapse of Cutler Road. Construction of the project was completed in May 2009. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed September 26, 2007 between the Corps and the Maine Department of Transportation. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction. The project sponsor must also pay a minimum cash contribution of 5 percent of total project costs during construction; pay an additional cash contribution during construction so that the total contribution including lands equals 35 percent of total project costs; assume all costs in excess of the Federal statutory cost limitation of \$1,000,000; and bear all costs for maintenance and repair of the project after completion.

Operations during fiscal year. New Work: A contract for construction of emergency shoreline protection measures along Holmes Bay was awarded on September 15, 2008. Work began in October 2008 and was completed in May 2009. Final contract amount was \$497,821.

38. HOUSATONIC RIVER BASIN, CT AND MA

Seven flood control reservoirs and three local protection projects have been specifically authorized as part of an overall plan for flood control in the Housatonic River Basin. The Naugatuck and Housatonic Rivers converge 12 miles above the mouth of the Housatonic River. A project for emergency snagging and clearing along the Blackberry River, a tributary of the Housatonic River, was authorized under authority contained in Section 208 of the 1954 Flood Control Act. Six emergency stream bank protection projects were authorized and constructed under authority provided by Section 14 of the 1946 Flood Control Act. Five projects for local flood protection were authorized and constructed under authority provided by Section 205 of the 1948 Flood Control Act. (See Table 1-S at end of chapter on dams, reservoirs, and local protection projects for Housatonic River Basin.)

38A. BLACK ROCK LAKE, CT

Location. Black Rock Dam is located on Branch Brook, about two miles upstream from its confluence with the Naugatuck River, in the Towns of Thomaston and Watertown, Connecticut. (See Geological Survey map for Thomaston, CT.)

Existing project. See the Annual Report for 1975 for a description of completed improvements and authorizing legislation. Road relocation was completed in November 1967. Construction of the dam and appurtenant works was initiated in July 1967 and completed in July 1971.

Local cooperation. Section 2, Flood Control Act of 1938 applies. State legislation requires local interests to establish encroachment lines downstream of dam to permit efficient reservoir operation.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted

38B. HANCOCK BROOK LAKE, CT

Location. Dam is on Hancock Brook, in the Town of Plymouth, Connecticut, about 3.4 miles above its confluence with Naugatuck River. (See Geological Survey map for Waterbury, CT.)

Existing project. See the Annual Report for 1975 for a description of the completed improvements and authorizing legislation. Construction of the dam and appurtenant structures was initiated in July 1963 and completed in August 1966.

Local cooperation. Section 2, Flood Control Act of 1938 applies. State legislation requires local interests to establish encroachment lines downstream of dam to permit efficient reservoir operation.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract for miscellaneous concrete repairs was awarded on May 23, 2006. Work began in July 2006 and was completed in December 2006. Final contract amount was \$379,432, of which \$2,712 was paid this FY.

38C. HOP BROOK LAKE, CT

Location. Dam site is located on Hop Brook about 1.4 miles upstream of the confluence of Naugatuck River and Hop Brook, in the city of Waterbury and towns of Middlebury and Naugatuck, Connecticut. (See Geological Survey map for Waterbury, CT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant structures was initiated in December 1965 and completed in December 1968. Construction of a public use facility was completed in November 1973. Construction of an additional restroom was completed in 1980.

Local cooperation. Section 2, Flood Control Act of 1938 applies. State legislation requires local interests to establish encroachment lines downstream of dam to permit efficient reservoir operation.

Operations during fiscal year. Major rehabilitation: A contract for remedial seepage repairs was awarded on September 29, 2009. Work had not begun by FY end.

Maintenance: Ordinary operation and maintenance activities were conducted.

38D. NORTHFIELD BROOK LAKE, CT

Location. Dam is on Northfield Brook, about 1.3 miles upstream from its confluence with Naugatuck River, in town of Thomaston, Connecticut. (See Geological Survey map for Thomaston, CT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of dam and appurtenances was initiated in May 1963 and completed in October 1965. Construction of recreation facilities was initiated in November 1966 and completed in August 1967.

Local cooperation. Section 2, Flood Control Act of 1938 applies. State legislation requires local interests to establish encroachment lines downstream of dam to permit efficient reservoir operation.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

38E. THOMASTON DAM, CT

Location. Thomaston Dam is located on the Naugatuck River, 30.4 miles above its junction with the Housatonic River, and about 1.6 miles north of Thomaston, Connecticut. Reservoir extends upstream about 6.4 miles. (See Geological Survey map for Thomaston, CT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in May 1958 and completed in November 1960.

Local cooperation. Section 3, Flood Control Act of 1944 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

39. MERRIMACK RIVER BASIN, NH AND MA

The Flood Control Act of 1936 authorized construction of a system of flood control reservoirs in the Merrimack River Basin to reduce flood heights. The Flood Control Act of 1938 approved a general comprehensive plan for flood control and other purposes as approved by Chief of Engineers, and modified the original project to include related flood control works which may be found justified by the Chief of Engineers. All operations pertaining to flood control in the Merrimack River Basin are now carried on under and reported under projects for individual units of the comprehensive plan referred to above. For a final cost and financial summary of the comprehensive plan, see The Annual Report for 1946.

A comprehensive plan for development of water resources of the North Nashua River Basin, a principal tributary of the Merrimack River, was authorized by the 1966 Flood Control Act substantially in accordance with Senate Document 113, 89th Congress. Plan provides for construction of coordinated system of four reservoirs and three local protection projects for flood protection, water supply, recreation and allied purposes. Water Resources Development Act of 1986 deauthorized two of the reservoirs and one of the local protection projects.

The 1966 Flood Control Act also authorized construction of the Saxonville local protection project substantially in accordance with Senate Document 61, 89th Congress. Five emergency stream bank protection projects have been authorized and constructed under authority provided by Section 14 of the 1946 Flood Control Act. (See Table 1-T at end of chapter for reservoirs and related flood control works for Merrimack River Basin.)

39A. BLACKWATER DAM, NH

Location. Dam is located on the Blackwater River, about 8.2 miles above its confluence with Contoocook River, and 118.8 miles above the mouth of Merrimack River. The dam is located in the town of Webster, New Hampshire, just above the village of Swetts Mills, New Hampshire and 18 miles northwest of Concord, New Hampshire. (See Geological Survey maps for Penacook and Mount Kearsarge, NH.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual

Report for 1975. Project is complete except for construction of public facilities. Construction of the dam and appurtenant works was initiated in May 1940 and completed in November 1941.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

39B. EDWARD MACDOWELL LAKE, NH

Location. Edward MacDowell Dam is located on Nubanusit Brook, a tributary of the Contoocook River, about one-half mile upstream from the village of West Peterborough, New Hampshire, and about 14 miles east of Keene, New Hampshire. (See Geological Survey map for Peterborough and Monadnock, NH.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in March 1948 and completed in March 1950.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

39C. FRANKLIN FALLS DAM, NH

Location. Franklin Falls Dam is located on the Pemigewasset River, a main tributary of the Merrimack River, about 2.5 miles upstream of Franklin, New Hampshire. (See Geological Survey maps for Penacook and Holderness, NH.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in November 1939 and completed in October 1943.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

39D. HOPKINTON-EVERETT LAKES, NH

Location. Hopkinton Dam is on Contoocook River, 17.3 miles above its junction with Merrimack River and about

one-half mile upstream from village of West Hopkinton, New Hampshire. Everett Dam is on Piscataquog River, 16 miles above its junction with Merrimack River, and about 1.3 miles southeast of village of East Weare, NH. Two interconnecting canals were provided to enable the two reservoir areas to function as one. (See Geological Survey map for Hillsboro, NH, and Concord, NH.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of two dams and appurtenant works was initiated in November 1959 and completed in December 1962. Construction of recreation facilities was initiated in November 1974 and completed in September 1975.

Local cooperation. Section 2, Flood Control Act of 1938 applies. Local interests must also bear 50 percent of future recreational development in accordance with 1965 Federal Water Project Recreation Act.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

40. NEW BEDFORD, FAIRHAVEN AND ACUSHNET, MA

Location. Main harbor barrier is across New Bedford and Fairhaven Harbor in vicinity of Palmer Island. Supplemental dikes and walls are provided in Clark Cove area of New Bedford and Fairhaven. (See Geological survey maps for New Bedford North, New Bedford South, Marion, and Sciticut Neck, MA and National Ocean Service Coast Survey Charts 13230 and 13218.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the barrier and appurtenances was initiated in October 1962 and completed in January 1966. Construction of the pumping station was initiated in October 1962 and completed in June 1964.

Local cooperation. Fully complied with for completed work.

Operations during fiscal year. Maintenance: The cost to operation and maintain the New Bedford Hurricane Barrier totaled \$1,758,199. Costs included \$195,858 for normal operation and maintenance; \$44,593 for design of the stop log structure repairs, replacement of sector gate wheels and roof repairs; \$81,917 to purchase bearings; \$82,744 for contract supervision and administration; and \$8,100 for Reservoir Control Center support. A contract to upgrade the electrical control system to the barrier gate was awarded on July 2, 2008. Work began in late September 2008 and was about 98 percent complete at FY end. Contractor earnings

totaled \$1,048,836, of which \$1,032,037 was earned this FY. A contract to repair the reduction gears was awarded on February 11, 2009. Work began in April 2009 and was completed in July 2009. Final contract amount was \$312,950. A contract to fabricate sector gate wheels was awarded on June 30, 2009. Work had not begun by FY end.

41. PLEASANT POINT, PERRY, ME

Location. The Town of Perry is located in Washington County along the coast of northeastern Maine about 126 miles east of Bangor, Maine and 20 miles south of Calais, Maine.

Existing project. Provides for the construction of approximately 800 linear feet of stone slope protection along an eroding section of shoreline on Pleasant Point. Project was completed in June 1987. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. Fully complied with for completed work. For a description of items of local cooperation see the Annual Report for 1987.

Operations during fiscal year. New work: Periodic inspection revealed that some of the stone slope protection has been displaced. The rate of displacement is greater than expected because much of the stone used in construction was not in accordance with specifications in terms of weight and configuration. Although the Construction Deficiency Report recommended repair, it was decided that this work did not qualify because the project is over twenty years old and total costs are already at the Federal statutory funding limit.

42. STAMFORD, CT

Location. The Stamford Hurricane Barrier is located in Fairfield County on the north shore of Long Island Sound, about 30 miles east of New York City and 20 miles southwest of Bridgeport, Connecticut. (See Geological Survey map for Stamford, CT and National Ocean Service Coast Survey Chart 12368.)

Existing project. For a description of the completed improvements and authorizing legislation, see the Annual Report for 1974. Project was completed in 1969. Local interests still owe a substantial amount based on claims settlements, including interest payment under the Contract Disputes Act.

Local cooperation. Fully complied with for completed work.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted.

43. THAMES RIVER BASIN, CT, RI, AND MA

Works covered by this plan are a series of dams and reservoirs on tributaries of Thames River in Massachusetts and Connecticut, within a radius of 45 miles from Norwich, Connecticut, and a channel enlargement on Shetucket River where it discharges into the Thames River at Norwich. The Flood Control Act of August 18, 1941, approved a plan for a system of reservoirs and channel improvements in the Thames River Basin in accordance with House Document 885, 76th Congress, 3rd session, and authorized \$6 million for initiation and partial accomplishment of project. The Flood Control Act of December 22, 1944, authorized completion of the approved plan. Flood Control Act of July 14, 1960, authorized project for West Thompson Reservoir, substantially as recommended in Senate Document 41, 86th Congress, 2nd session. Local flood protection projects at New Haven and Norwich, Connecticut were authorized and constructed under authority provided by Section 205 of the 1948 Flood Control Act. (See Table 1-U on reservoirs and local protection projects, Thames River Basin, for projects comprising approved plan.)

43A. BUFFUMVILLE LAKE, MA

Location. Buffumville Dam is located on the Little River, 1.3 miles above its junction with the French River, and eight miles northeast of Southbridge, Massachusetts. Reservoir extends upstream about 1.7 miles northerly and 1.9 miles southerly. (See Geological Survey maps for Webster, MA and CT, and Leicester, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in September 1956 and completed in June 1958.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract for a historical and archeological evaluation was awarded on September 30, 2009. Work had not begun by FY end.

43B. EAST BRIMFIELD LAKE, MA

Location. East Brimfield Dam is located on the Quinebaug River, 64.5 miles above its confluence with the Shetucket River, and one-mile southwest of the village of Fiskdale, Massachusetts. (See Geological Survey maps for Whales, MA and CT, Southbridge, MA and CT, East Brookfield, MA, and Warren, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see Annual Report for 1975. Construction of the dam and appurtenant works was initiated in May 1958 and completed in June 1960.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract for an intensive cultural resource survey was awarded on June 19, 2009. Work began in August 2009 and was about 25 percent complete at FY end with contractor earnings of \$85,371.

43C. HODGES VILLAGE DAM, MA

Location. Dam is on French River, 15 miles above its confluence with Quinebaug River, at Hodges Village in the Town of Oxford, Massachusetts, about five miles north of Webster, Massachusetts. (See Geological Survey maps for Webster, MA, and CT, Leicester, MA, Worcester South, MA, and Oxford, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works, initiated in March 1958, was completed in December 1959. Major rehabilitation of the dam was initiated in October 1997 and completed in July 2000.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract for a historical and archeological evaluation was awarded on September 30, 2009. Work had not begun by FY end.

43D. MANSFIELD HOLLOW LAKE, CT

Location. Mansfield Dam is located at Mansfield Hollow, Connecticut, on the Natchaug River, 5.3 miles above its confluence with the Willimantic River. It is four miles northeast of the City of Willimantic, CT. (See Geological Survey maps for Spring Hill and Willimantic, CT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of dam, initiated in 1949, was completed in May 1952.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Major rehabilitation: A dam safety and assurance investigation was initiated to investigate seepage problems during high pool events and to develop remedial repairs.

Maintenance: Ordinary operation and maintenance activities were conducted. A contract for an intensive cultural resource survey was awarded on June 19, 2009. Work began in August 2009 and was about 15 percent complete at FY end with contractor earnings of \$64,834.

43E. WEST THOMPSON LAKE, CT

Location. West Thompson Dam is located on the Quinebaug River, in the Town of Thompson, Connecticut. Site is in the village of West Thompson, two miles upstream from the City of Putnam, Connecticut. (See Geological Survey map, for Putnam, CT.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of dam, road relocation, and appurtenances was initiated in August 1963 and completed in October 1965. Initial phase of recreation facilities was completed in May 1976.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract for an intensive cultural resource survey was awarded on June 19, 2009. Work began in August 2009 and was about 10 percent complete at FY end with contractor earnings of \$33,583.

43F. WESTVILLE LAKE, MA

Location. Dam is on Quinebaug River, 56.7 miles above its confluence with Shetucket River, in the Towns of Sturbridge and Southbridge, Massachusetts, and 1.3 miles west of center of Southbridge. (See Geological Survey maps for Southbridge, MA and RI, and East Brookfield, MA.)

Existing project. For a description of the completed improvements and authorizing legislation see the Annual Report for 1975. Construction of the dam and appurtenant works was initiated in April 1960 and completed in August 1962.

Local cooperation. Section 2, Flood Control Act of 1938 applies.

Operations during fiscal year. Maintenance: Ordinary operation and maintenance activities were conducted. A contract for an intensive cultural resource survey was

awarded on June 19, 2009. Work began in August 2009 and was about 15 percent complete at FY end with contractor earnings of \$21,672.

44. TOWN BROOK, QUINCY AND BRAINTREE, MA

Location. The project is located in the City of Quincy and Town of Braintree on the south side of Massachusetts Bay, along the eastern shore of Massachusetts, seven miles south of Boston in Norfolk County. The watershed is approximately 4.5 square miles.

Existing project. Project provides for the construction of a 12-foot diameter, 4,060-foot long, concrete lined tunnel in bedrock approximately 140 to 180 feet below ground, intake and outlet structures, and improvements to the Town River downstream of the outlet shaft. The tunnel and its appurtenances will be supplemented by reconstruction of the Old Quincy Reservoir Dam, located at the headwaters of Town Brook. Reconstruction work includes a new spillway and outlet structure. The project includes \$6,100,000 in approved credit for compatible work that has been accomplished by the project sponsor. Dam safety measures at Old Quincy Dam, which are estimated at \$9,000,000, are a non-Federal responsibility. Construction of the project was completed under three separate contracts. Town River improvements were completed in December 1994, the tunnel was completed in January 1997, and reconstruction of Old Quincy Reservoir Dam was completed in December 2002. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Local Cooperation Agreement (LCA) was signed on July 7, 1992 between the Corps and the Metropolitan District Commission (MDC). The MDC is required to provide all lands, easements, and rights-of-way; pay all cost for dam safety measures at Old Quincy Dam to insure its structural integrity; pay a cash contribution for the costs allocated to flood control so that the total contribution of local interests is equal to 25 percent of costs allocated to flood control; and bear all costs of operation, maintenance, and replacements. In addition, local interests must do the following: prescribe and enforce regulations to prevent encroachment on both the improvements and unimproved channels, and manage all project-related channels to preserve capacities for local drainage as well as for project functions.

Operations during fiscal year. New work: Continued efforts to financially close-out the project.

45. VERMONT DAMS REMEDIATION, VT

Location. The twenty dams to be evaluated are located throughout the State of Vermont.

Existing project. Authorizes the Corps to evaluate the structural integrity of twenty priority dams in the State of Vermont and to carry out measures to modify, repair, restore or remove dams determined to pose an imminent and substantial risk to public safety. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. A Design Agreement was signed on November 4, 2002 between the Corps and the State of Vermont Department of Environmental Conservation, Agency of Natural Resources. The non-Federal sponsor must contribute 35 percent of the cost for design of dam remediation work.

Operations during fiscal year. New work: Design efforts are on hold pending appropriation of additional funds.

46. WOONSOCKET, RI

Location. The Woonsocket Local Protection Project is located along the Blackstone River in north central Rhode Island, extending about 8,300 feet downstream from the Massachusetts state line to Woonsocket Falls Dam in the center of Woonsocket.

Existing project. Project consists of widening, deepening and straightening of the river channel for a distance of 8,300 feet upstream of Woonsocket Falls Dam, along with construction of a pumping station, 1,115 feet of earth dike and 316 feet of concrete floodwall. The project included replacement of the Woonsocket Falls Dam with a concrete overflow structure 266 feet wide, equipped with four tainter gates. Construction of the project was completed in April 1960. (See Table 1-B for Acts authorizing the existing project.)

Local cooperation. Fully complied with for completed work.

Operations during fiscal year. Maintenance: In accordance with the National Defense Authorization Act of 2008, operation and maintenance responsibility of the project was transferred to the Corps in January 2009.

47. INSPECTION OF COMPLETED FLOOD CONTROL PROJECTS

A total of \$648,160 was expended in FY 2009 under the Inspection of Completed Works program. Activities consisted of routine and periodic inspection of Federal and non-Federal projects that are active in the Rehabilitation and Inspection Program (RIP) and review of non-Federal sponsor requests for project modifications. Routine inspections were conducted along 37 of the 61 levee systems in New England. A periodic inspection was conducted along

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

one system, 12 others will be inspected next FY using American Recovery and Reinvestment Act funds, and the remaining 12 systems are inactive under PL 84-99 and were not inspected.

Although the deadline of January 31, 2008 for corrections under the Maintenance Deficiency Correction Period (MDCP) has passed, New England District continued limited coordination with MDCP project sponsors during FY 2009. Following is the current status of the ten MDCP projects in New England:

Chicopee, MA – Active in PL 84-99. Initially, corrective measures could not be completed by the January 31, 2008 deadline and the project was placed in an inactive status. The sponsor has since issued a contract to correct the MDCP deficiencies and completed construction in June 2009. A routine inspection was conducted in August 2009 and the project was moved back to active status. The Sponsor is currently in a Provisionally Accredited Levees (PAL) Agreement with FEMA and is undergoing AE certification of the project.

East Hartford, CT – Active in PL 84-99. Sponsor requested and received approval from ASA(CW) for a 12-month extension to the MDCP. The Sponsor completed final design of the selected correction plan and construction commenced in June 2008. Work to rectify deficiencies was completed in September 2009. Sponsor is currently in a PAL Agreement with FEMA and is undergoing AE certification of the project.

Springfield, MA – Active in PL 84-99.

West Springfield, MA – Active in PL 84-99.

Canton, MA - Inactive in PL 84-99 as of 7 May 2007.

Lincoln, NH – Inactive in PL84-99 as of 7 May 2007.

Lowell, MA - Inactive in PL 84-99 as of 7 May 2007. Sponsor is still working to correct deficiencies.

Torrington, East and West Branches, CT – Inactive in PL 84-99. Sponsor is still working to correct deficiencies.

Waterbury-Watertown, CT – Active in PL 84-99

Woonsocket, RI - Inactive in PL 84-99 as of 27 April 2007.

48. FLOOD CONTROL RESERVOIR OPERATIONS

A coordinated system of flood control dams, all of which have flood control as primary storage available with

recreation and/or water supply as secondary storage in most of the projects, has been established in five major flood producing basins in New England. During periods of flood flows, regulation of reservoirs is fully coordinated within each basin dependent upon its location in the watershed, its available storage capacity and origin of the flood. In addition to flood control releases; water supply, flow augmentation and hydropower releases were made from selected reservoirs. Winter pools are maintained at many projects to submerge the flood control gates and keep them from freezing.

During FY 2009, the New England region experienced a relatively wet weather pattern with annual precipitation recorded at our dams ranging from 10 to 20 percent above normal. The summer weather pattern was characterized with frequent rainstorms on almost a daily basis from May through July. Some storms were intense with rainfall rates upwards of 3 to 5 inches in less than 24-hours producing urban flash-flood conditions. December 2008 was a very wet month experiencing over double the normal monthly rainfall in southern New England, which caused the only regional flood event of the year. Winter was characterized by a relatively normal snowfall weather pattern. Maximum snow water equivalent content ranged from 4 to 7 inches within the watersheds of New Hampshire and Vermont, and 3 to 5 inches in the watersheds of Massachusetts and Connecticut. By mid-March, most of the snowpack was depleted due to moderating temperatures. Flooding due to snowmelt did not occur. In northern Maine, the Aroostook River watershed experienced flooding as a result of moderate temperatures in combination with rainfall and ice jams in April 2009. Cumulative damages prevented by Corps dams and local flood protection projects during these two events were approximately \$83 million, of which approximately \$44 million was attributed to NAE dams and \$39 million to local flood protection projects.

CONNECTICUT RIVER BASIN

Regulation for canoe and kayak activities occurred during FY 2009 at Otter Brook in March, April and May; Surry Mountain in April and May; Knightville in March and April; Birch Hill, Littleville and Tully in April; and Ball Mountain and Townshend in September. The Hartford MDC controlled releases for hydropower from Colebrook Lake during non-flood periods of FY 2009.

MERRIMACK RIVER BASIN

No whitewater releases were requested from Blackwater Dam during FY 2009.

THAMES RIVER BASIN

Regulation for canoe and kayak activities occurred during April 2009 at East Brimfield. East Brimfield also supplied small releases for low flow augmentation to the American Optical Company during the summer months.

49. HURRICANE BARRIER OPERATIONS

Five hurricane barriers are situated along the southern coast of New England, protecting coastal communities from tidal flooding associated with hurricanes and severe coastal storms. The Corps operates the navigational elements of the Stamford, Connecticut and the New Bedford/Fairhaven, Massachusetts's barriers. The local communities operate the hurricane barriers at Fox Point, Rhode Island; Pawcatuck, Connecticut; and New London, Connecticut. A brief resume of operations for the FY follows:

STAMFORD BARRIER. During FY 2009, the Stamford Hurricane Barrier was operated on twelve occasions resulting in a total of \$396,000 in damages prevented.

NEW BEDFORD BARRIER. The New Bedford Barrier was operated on fourteen different occasions during FY 2009, resulting in a total of \$506,000 in damages prevented.

FOX POINT HURRICANE BARRIER. The Fox Point Hurricane Barrier did not experience any damaging tide levels during FY 2009, and no damages prevented computations were needed.

PAWCATUCK HURRICANE BARRIER. The Pawcatuck Hurricane Barrier did not experience any damaging tide levels in FY 2009 and no damages prevented computations were needed.

NEW LONDON HURRICANE BARRIER. The New London Hurricane Barrier did not experience and damaging tide levels in FY 2009 and no damages prevented computations were needed.

50. FLOOD CONTROL WORK UNDER SPECIAL AUTHORIZATION

Flood control activities pursuant to Section 205.Public Law 80-858, as amended (preauthorization).

(See Table 1-L)

Snagging and clearing activities pursuant to Section 208 of the 1954 Flood Control Act.

(None)

Emergency Bank Protection activities pursuant to Section 14 of the 1946 Flood Control Act (preauthorization).

(See Table 1-M)

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

Federal costs for FY 2009 for disaster preparedness and emergency operations were as follows:

Disaster Preparedness Program	\$ 436,549
Emergency Operations	30,745
Rehabilitation and Inspection Program	
Fort Kent, ME	<u>408,347</u>
Total Flood Control & Coastal Emergencies	\$ 875,641

Environmental

51. ALLIN'S COVE, BARRINGTON, RI

Location. Allin's Cove is a 21 acre coastal embayment located in the Town of Barrington, Rhode Island along the east side of the Providence River just south of Bullocks Point Cove. In 1959, the Corps of Engineers used the mouth of Allin's Cove as a dredged material disposal site during improvement dredging of Bullocks Point Cove.

Existing project. The project provides for the excavation of dredged material, realignment of the inlet and construction of two sand spits to restore approximately 3.6 acres of salt marsh and protect an additional 0.7 acres of salt marsh at the mouth of the cove. The project also stabilizes the shoreline along Byway Road. Restoration work was completed in May 2006. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on March 8, 2004 between the Corps and the Rhode Island Coastal Resources Management Council. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction; pay a cash contribution in the amount necessary to bring the non-Federal share of study and project costs including lands to 25 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: A contract to restore Allin's Cove was awarded on July 27, 2005. Work began in October 2005 and was substantially complete in May 2006. Contractor returned in the spring of 2007 to re-seed upland areas as grass growth did not meet performance evaluation criteria, and again in the summer of 2008 to install sand envelopes above mean high water to repair storm damage. Project was officially turned over to the state on December 17, 2008. The contractor returned in the spring of 2009 to do some minor seeding and planting. Final contract

amount was \$803,064, of which \$55,184 was paid this FY. Project included a 3-year monitoring program which was completed in July 2009.

52. BROAD MEADOWS MARSH, QUINCY, MA

Location. Broad Meadows Marsh is located south of Boston Harbor in the city of Quincy, Massachusetts.

Existing project. The project provides for the excavation of dredged material to improve tidal exchange and restore approximately 37 acres of salt marsh habitat and 12 acres of saltwater channels and pools. The saltwater pools would provide a refuge for marine life during periods of low tide. Excavated material would be used to create a coastal grassland area. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on August 5, 2008 between the Corps and the City of Quincy, Massachusetts. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction; pay a cash contribution in the amount necessary to bring the non-Federal share of study and project costs including lands to 25 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: Bids were opened on September 14, 2008 for restoration of Broad Meadows Marsh. Contract was not awarded by FY end.

53. MILL RIVER, STAMFORD, CT

Location. The project is located along the Mill River in the City of Stamford, Connecticut.

Existing project. Restoration measures involve the removal of the Main Street Dam, accumulated sediment and adjoining retaining walls to restore riverine and riparian habitats. The partially breached dam at Pulaski Street will also be removed to restore an area of inter-tidal habitat. The project includes a 3-year monitoring period to ensure establishment of uplands and wetlands vegetation. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on June 23, 2008 between the Corps and the City of Stamford, Connecticut. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary

for project construction; pay a cash contribution in the amount necessary to bring the non-Federal share of study and project costs including lands to 35 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: A contract to restore the Mill River was awarded on 30 September 2008. Work began in February 2009 and was about 50 percent complete by FY end with contractor earnings of \$3,069,734.

54. NASHAWANNUCK POND, EASTHAMPTON, MA

Location. Nashawannuck Pond is located in the City of Easthampton, in west central Massachusetts. The pond has an area of about 31 acres and is located in the downtown section of Easthampton.

Existing project. The project provides for dredging about 8 acres of Nashawannuck Pond to a maximum depth of 12 feet to restore open water habitat. Work would include the disposal of approximately 54,000 cubic yards of dredged material at an upland site owned by the city. Dredging would be prohibited from a 50-foot buffer zone around the perimeter of the pond to protect shallow submerged aquatic vegetation and waterfowl habitat. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on September 25, 2007 between the Corps and the City of Easthampton, Massachusetts. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction; pay a cash contribution in the amount necessary to bring the non-Federal share of study and project costs including lands to 35 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: A contract to restore Nashawannuck Pond was awarded on June 25, 2009. Work began in July 2009 and was about 7 percent complete by FY end with contractor earnings of \$105,043.

55. NINIGRET AND CROSS MILLS PONDS, CHARLESTOWN, RI

Location. The Town of Charlestown is located along the south coast of Rhode Island in Washington County. The specific areas of restoration are located in and adjacent to the breachway in Ninigret Pond and at the junction of Cross Mills Pond with an unnamed outlet stream that discharges into Ninigret Pond.

Existing project. Project provides for dredging about 40 acres of tidal shoal area in Ninigret Pond and planting eelgrass to restore aquatic habitat. A 3.5-acre sediment basin was dredged to prevent future shoaling of restored aquatic habitat. The original project included construction of a concrete lined bypass channel with two fish ladders from Ninigret Pond to Cross Mills Pond; however, this work was never completed because of land issues. Except for some additional eel grass planting, the project was completed in February 2008. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on May 28, 2003 between the Corps and the State of Rhode Island, Coastal Resources Management Council. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction; pay a cash contribution in the amount necessary to bring the non-Federal share of study and project costs including lands to 35 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: The second year of a three-year monitoring program was completed. Further eelgrass restoration efforts may be limited as observations have shown significant natural succession of eelgrass in dredged areas.

56. STEWART'S CREEK, BARNSTABLE, MA

Location. Stewart's Creek is a small tidal estuary located along the southern coast of Cape Cod in the Town of Barnstable, Massachusetts.

Existing project. Project provides for dredging and redistribution of sediments along with construction of a new, larger culvert beneath Ocean Avenue to improve tidal flow and restore the degraded salt marsh, including estuarine open water habitat. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Partnership Agreement was signed on November 12, 2008 between the Corps and the Town of Barnstable, Massachusetts. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction; pay a cash contribution in the amount necessary so that the Federal share of project costs does not exceed 65 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: Continued preparation of project plans and specifications.

57. TEN MILE RIVER, RI

Location. The project is located along the Ten Mile River in East Providence, Rhode Island at the head of Narragansett Bay directly to the east of Providence, Rhode Island.

Existing project. Project provides for construction of fish passage facilities at the three lowest dams on the Ten Mile River; Omega Pond Dam, Hunts Mill Dam and Turner Reservoir Dam. The project includes construction of a fish trap at Hunts Mill Dam to relocate excess fish to other watersheds as anadromous fish returns are likely to exceed available upstream spawning grounds. The project will restore anadromous fish to the lower Ten Mile River. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on May 27, 2008 between the Corps and State of Rhode Island Department of Environmental Management. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction; pay a cash contribution in the amount necessary to bring the non-Federal share of study and project costs including lands to 35 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: Negotiated amended to the Project Cooperation Agreement to include construction of fish passage facilities at Omega Pond Dam in the total project cost and to reflect contributed funds from other Federal agencies. Amendment was not fully executed by FY end.

58. TOWN POND (BOYD'S MARSH), PORTSMOUTH, RI

Location. Town Pond is located along the south shore of Mount Hope Bay in Portsmouth, Rhode Island. In 1950 and 1951, the Corps of Engineers used this pond as a dredged material disposal site during construction of the deep draft navigation project at Fall River Harbor, Massachusetts.

Existing project. The project provides for the excavation of dredged material to improve tidal flushing and restore 20 acres of salt marsh. The project began functioning on September 21, 2007 as tidal flows were allowed to enter the salt marsh. (See Table 1-B for Act authorizing the existing project.)

Local cooperation. A Project Cooperation Agreement was signed on August 23, 2004 between the Corps and the State of Rhode Island and Providence Plantations. The project sponsor must provide all lands, easements, rights-of-way, including suitable borrow and dredged material disposal areas, and perform all relocations determined by the Government to be necessary for project construction; pay a cash contribution in the amount necessary to bring the non-Federal share of study and project costs including lands to 25 percent; and bear all operation, maintenance and repair costs of the project after completion.

Operations during fiscal year. New work: A contract to restore Town Pond was awarded on July 25, 2005. Work began in September 2005 and was completed in December 2008. Final contract amount was \$4,213,934, of which \$10,000 was paid this FY. The project includes a five-year monitoring program, which began in January 2009 and continued through the FY.

59. ENVIRONMENTAL RESTORATION WORK UNDER SPECIAL AUTHORIZATION

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

(See Table 1-N)

Aquatic ecosystem restoration activities pursuant to Section 206, Public Law 99-662, as amended (preauthorization).

(See Table 1 - O)

Beneficial use of dredged material activities pursuant to Section 204, Public Law 102-580, as amended (preauthorization).

(See Table 1 - P)

General Investigations

60. SURVEYS

Total costs during the FY for surveys were \$701,449, of which \$678,242 was from regular funds and \$23,207 were from American Recovery and Reinvestment Act funds. Within total survey costs, \$300,164 was used for three navigation studies; \$135,165 for three ecosystem restoration studies; \$53,105 for one comprehensive study; \$69,159 for seven special studies under the Planning Assistance to the States program; and \$143,856 for coordination studies.

61. COLLECTION AND STUDY OF BASIC DATA

The District Engineer is the U.S. member on the Saint Croix River Board of Control. Annual site visits are made of conditions on the Saint Croix River and basic hydrologic information is compiled. A report of operations and development in the basin was prepared in cooperation with Canadian counterparts. The Board's efforts have been expanded in recent years to improve exchange of watershed information between countries and to monitor the ecological health of the watershed's aquatic ecosystem. Total costs for the FY were \$61,431. Total costs to September 30, 2009 are \$936,603.

The Gulf of Maine Council on the Marine Environment was established in 1989 under an agreement signed by the Governors of Maine, New Hampshire and Massachusetts, and the Premiers of Nova Scotia and New Brunswick. The Council was tasked under this agreement to develop consistent policies, initiatives and programs designed to protect and conserve the shared natural resources of the Gulf of Maine. In April 1993, the Council requested the New England District Engineer to participate in this international program as an "observer" to the Council. In this capacity, the District Engineer is expected to attend Council meetings and support their initiatives to the extent possible. In addition to the District Engineer's direct participation, a representative of the Corps is a member of the Working Group to the Council, which implements directives of the Council. The Corps representative on the Working Group is assisting the Habitat Sub-Group to establish policies, set priorities and identify lead agencies for implementing habitat restoration projects in the Gulf of Maine. This effort includes investigating potential habitat restoration sites eligible for Corps participation under Sections 1135 and 206, and for coordination of input from other Federal agencies. Total costs for the FY were \$1,911. Total costs to September 30, 2009 are \$144,896.

Flood plain management studies comprise compilation and dissemination, upon requests by responsible local interests, of information on floods and potential flood damages. Studies identify areas subject to inundation by floods of various magnitudes and frequencies, and provide general criteria for guidance in the conservation and limited use of these areas, along with engineering advice in planning to ameliorate the flood hazard. Total costs for the FY were \$23,308. Total costs to September 30, 2009 are \$11,545,420.

62. PLANNING, ENGINEERING AND DESIGN

(None.)

**63. PRECONSTRUCTION
ENGINEERING AND DESIGN**

Pre-construction Engineering and Design costs were \$167,466 to continue design efforts on the Muddy River flood control and ecosystem restoration project in Boston and Brookline, Massachusetts. Work included incorporation of review comments on 90 percent project design.

Regulatory Program

64. REGULATORY PROGRAM

Permit Evaluation	\$ 6,777,195
Enforcement	105,078
Compliance	103,879
American Recovery and Reinvestment Act	<u>82,715</u>
Total Regulatory Program	\$ 7,068,867

Formally Utilized Sites Remedial Action Program (FUSRAP)

**65. COMBUSTION ENGINEERING,
WINDSOR, CT**

Location. The Town of Windsor is located in north-central Connecticut about 10 miles north of Hartford, Connecticut. The Combustion Engineering (CE) site is a 600-acre area located along the Farmington River in Windsor, Connecticut.

Existing project. CE, under contract to the Atomic Energy Commission (AEC), fabricated nuclear fuel assemblies using highly enriched uranium (HEU) from 1958 to 1961. CE also conducted licensed commercial nuclear activities on the site from the early 1960's to 1993. Although the commercial nuclear fuel fabrication ceased in 1993, CE is still licensed by the Nuclear Regulatory Commission (NRC) for commercial nuclear activities and the facility is still operating today. HEU is the primary radiological contaminant of concern at the site.

Local cooperation. Not applicable.

Operations during fiscal year. New work: Costs of \$12,102 were incurred for continued work on the draft feasibility report and Record of Decision.

**66. SHPACK LANDFILL, NORTON AND
ATTLEBORO, MA**

Location. The Towns of Norton and Attleboro are located in southeastern Massachusetts about 25 miles southwest of Boston, Massachusetts. Shpack Landfill is located along the

town boundary line with about 5.5 acres in Norton and 2.5 acres in Attleboro.

Existing project. The Shpack site is an 8-acre abandoned domestic and industrial landfill, which operated from 1946 to 1965. Radioactive contamination is believed to have come from Metals and Controls Incorporated, now Texas Instruments, which had used the landfill to dispose of trash and other materials from 1957 to 1965. The General Plate Division of Metals and Controls Incorporated began to fabricate enriched uranium foils at their Attleboro plant in 1952. In 1959 it merged with Texas instruments, which continued the operations until 1981, using enriched and natural uranium for the fabrication of nuclear fuel for the U.S. Navy and commercial customers. The site was listed on the National Priority List (NPL) in 1986, primarily to address other contaminants on site.

Local cooperation. Not applicable.

Operations during fiscal year. New work: A task order for remedial action was issued to Conti Environmental and Infrastructure Incorporated on 18 August 2005. The contractor began remedial action in September 2005 and was forced to stop work in August 2006 because of funding constraints. The contractor resumed work in June 2007 and was about 75 percent complete at FY end. Costs totaled \$12,624,083 during FY 2009.

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-A COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
1.	Aunt Lydia's Cove Chatham, MA	New Work:					
		Approp.	-	-	-	-	1,110,048
		Cost	-	-	-	-	1,110,048
		Maint:					
		Approp.	230,900	348,600	402,300	224,560	3,082,560
		Cost	210,405	357,963	218,856	87,909	2,649,897
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	102,206
		Cost	-	-	-	-	102,206
	(Contributed Funds, Other)	New Work:					
		Contrib.	-	-	-	-	62,292
		Cost	-	-	-	-	62,292
2.	Block Island Harbor of Refuge, RI	New Work:					
		Approp.	-	-	-	-	576,856
		Cost	-	-	-	-	576,856
		Maint:					
		Approp.	179,500	231,000	159,500	410,200	4,442,624
		Cost	173,738	74,216	105,050	219,263	4,040,672
3.	Boston Harbor, MA	New Work:					
		Approp.	-	-	-	-	40,371,307 ³
		Cost	-	-	-	-	40,371,307 ³
		Maint:					
		Approp.	7,002,000	4,862,300	7,095,500	5,547,620	66,468,869
		Cost	1,021,002	481,317	11,167,939	6,226,778	60,735,884
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	5,340,310
		Cost	-	-	-	-	5,340,310
		Maint:					
		Contrib.	-	-	3,000,000	-	3,017,767
		Cost	-	-	153,260	846,740	1,017,767
	(Contributed Funds, Other)	New Work:					
		Contrib.	-	-	-	-139,239	6,188,226
		Cost	-	-	-	-	6,188,226
4.	Bridgeport Harbor, CT	New Work:					
		Contrib.	-	-	-	-	4,491,119
		Cost	-	-	-	-	4,491,119
		Maint:					
		Approp.	1,335,300	80,500	741,600	75,500	5,589,666
		Cost	331,045	170,448	412,558	352,862	4,587,596
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	147,887
		Cost	-	-	-	-	147,887
		Maint:					
		Contrib.	-	400,000	-	100,000	500,000
		Cost	-	-	18,619	160,953	179,572
5.	Bullocks Point Cove, RI	New Work:					
		Contrib.	-	-	-	-	170,902
		Cost	-	-	-	-	170,902
		Maint:					
		Approp.	623,400	597,000	150,700	81,000	2,027,930
		Cost	21,495	49,323	9,565	94,186	742,184
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	123,757
		Cost	-	-	-	-	123,757
		Maint:					
		Contrib.	-	-	-	115,000	115,000
		Cost	-	-	-	-	-

NEW ENGLAND DISTRICT

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
6.	Cape Cod Canal, MA	New Work:					
		Approp.	-	-	-	-	21,798,322 ^{1,2}
		Cost	-	-	-	-	21,798,322 ^{1,2}
		Maint:					
		Approp.	7,870,000	9,596,400	10,716,500	9,962,393	270,842,722
		Cost	7,881,293	7,975,580	9,133,656	8,831,678	265,910,545
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	4,269,950	4,269,950
		Cost	-	-	-	752,552	752,552
		Minor Rehab:					
		Approp.	-	-	-	-	390,677
		Cost	-	-	-	-	390,677
		Major Rehab:					
		Approp.	-	-	-	-	57,152,000
		Cost	8,900	102	-	861	57,151,663
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	115,432
		Cost	-	-	-	-	115,432
7.	Carvers Harbor, Vinalhaven, ME	New Work:					
		Approp.	-	-	-	-	190,438
		Cost	-	-	-	-	190,438
		Maint:					
		Approp.	240,000	-	229,000	7,100	536,827
		Cost	31,615	85,257	335,458	18,213	531,270
8.	Chatham (Stage) Harbor, MA	New Work:					
		Approp.	-	-	-	-	266,705
		Cost	-	-	-	-	266,705
		Maint:					
		Approp.	100	24,400	223,200	177,900	4,991,463
		Cost	100	24,400	223,200	144,498	4,958,061
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	43,500
		Cost	-	-	-	-	43,500
	(Contributed Funds, Other)	Maint:					
		Contrib.	-	-	188,000	-	188,000
		Cost	-	-	79,594	103,920	183,514
9.	Clinton Harbor, CT	New Work:					
		Approp.	-	-	-	-	104,957
		Cost	-	-	-	-	104,957
		Maint:					
		Approp.	243,000	38,100	1,300	26,900	1,833,584
		Cost	45,927	81,368	14,387	31,649	1,696,315
10.	Cochecho River, NH	New York:					
		Approp.	-	-	-	-	119,089
		Cost	-	-	-	-	119,089
		Maint:					
		Approp.	2,482,900	450,300	2,826,000	1,100	9,139,289
		Cost	90,692	2,875,429	1,002,793	24,115	7,316,370
	(Contributed Funds, Other)	Maint:					
		Contrib.	830,000	-	-	-	830,000
		Cost	663,778	166,222	-	-	830,000
11.	Connecticut River Below Hartford, CT	New York:					
		Approp.	-	-	-	-	1,550,185
		Cost	-	-	-	-	1,550,185
		Maint:					
		Approp.	75,900	98,500	4,376,400	-277,000	23,588,752
		Cost	18,483	132,261	89,134	3,343,684	22,745,547

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
		Major Rehab:					
		Approp.	-	-	-	-	60,000
		Cost	-	-	-	-	60,000
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	130,410
		Cost	-	-	-	-	130,410
12.	Great Salt Pond, Block Island, RI	New Work:					
		Approp.	-	-	-	-	189,037
		Cost	-	-	-	-	189,037
		Maint:					
		Approp.	10,400	4,600	15,000	275,160	1,282,981
		Cost	10,400	4,600	15,000	272,783	1,280,533
13.	Green Harbor, MA	New Work:					
		Approp.	-	-	-	-	254,512
		Cost	-	-	-	-	254,512
		Maint:					
		Approp.	316,000	588,200	1,986,100	6,000	9,505,104
		Cost	30,020	418,862	20,266	107,047	7,163,773
	(Contributed Funds)	New Work:					
		Contrib.	-	565,000	-	-65,000	658,341
		Cost	-	500,000	-	-	658,341
14.	Merrimack River, MA	New Work:					
		Approp.	-	-	-	-	369,891
		Cost	-	-	-	-	369,891
		Maint:					
		Approp.	319,100	8,000	11,900	-	1,347,400
		Cost	175,977	85,553	14,102	1,850	1,285,882
15.	Mystic River, CT	New Work:					
		Approp.	-	-	-	-	197,491
		Cost	-	-	-	-	197,491
		Maint:					
		Approp.	90,800	69,600	263,500	320,900	1,127,985
		Cost	90,800	69,600	90,715	450,273	1,084,573
16.	Narraguagus River, ME	New Work:					
		Approp.	-	-	-	-	821,144
		Cost	-	-	-	-	821,144
		Maint:					
		Approp.	1,777,900	700	935,000	589,900	4,668,679
		Cost	36,766	1,684,721	1,841	60,984	3,131,933
17.	New Bedford and Fairhaven Harbor, MA	New Work:					
		Approp.	-	-	-	-	1,857,618
		Cost	-	-	-	-	1,857,618
		Maint:					
		Approp.	97,500	92,500	86,500	491,500	1,993,748
		Cost	100,992	92,500	86,500	26,780	1,519,294
	(Contributed Funds, Other)	New Work:					
		Contrib.	-	-	-	-	20,385
		Cost	-	-	-	-	20,385
18.	Newburyport Harbor, MA	New Work:					
		Approp.	-	-	-	-	565,224
		Cost	-	-	-	-	565,224
		Maint:					
		Approp.	8,300	77,700	656,000	604,580	8,387,110
		Cost	8,300	77,700	3,918	90,526	7,220,974
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	1,000,000	1,000,000
		Cost	-	-	-	-	-

NEW ENGLAND DISTRICT

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
		Major Rehab:					
		Approp.	-	-	-	-	1,415,524
		Cost	-	-	-	-	1,415,524
	(Contributed Funds, Other)	New Work:					
		Contrib.	-	-	-	-	80,357
		Cost	-	-	-	-	80,357
19.	Norwalk Harbor, CT	New Work:					
		Approp.	-	-	-	-	531,129
		Cost	-	-	-	-	531,129
		Maint:					
		Approp.	2,362,300	-74,500	5,736,200	1,491,120	16,323,247
		Cost	4,259,996	5,066	205,510	5,132,184	14,361,859
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	34,500
		Cost	-	-	-	-	34,500
		Maint:					
		Contrib.	-	-	-	60,710	160,710
		Cost	-	-	-	160,710	160,710
	(Contributed Funds, Other)	New Work:					
		Contrib.	76,903	-	1,500,000	-243,449	1,333,454
		Cost	-	-	-	1,008,875	1,008,875
20.	Patchogue River, CT	New Work:					
		Approp.	-	-	-	-	355,445
		Cost	-	-	-	-	355,445
		Maint:					
		Approp.	2,600	5,900	131,800	751,420	2,607,509
		Cost	2,600	5,900	38,800	78,886	1,841,975
21.	Point Judith Pond and Harbor of Refuge, RI	New Work:					
		Approp.	-	-	-	-	2,714,510
		Cost	-	-	-	-	2,714,510
		Maint:					
		Approp.	218,600	1,788,400	312,500	1,302,880	12,050,414
		Cost	218,600	1,185,122	832,694	187,639	10,851,837
		Major Rehab:					
		Approp.	-	-	-	-	1,926,000
		Cost	-	-	-	-	1,926,000
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	17,587
		Cost	-	-	-	-	17,587
22.	Portland Harbor, ME	New Work:					
		Approp.	-	-	-	-	9,588,710
		Cost	-	-	-	-	9,588,710
		Maint:					
		Approp.	527,400	214,500	6,200	99,940	12,533,379
		Cost	467,694	88,177	22,592	20,460	12,284,262
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	54,353
		Cost	-	-	-	-	54,353
23.	Providence River and Harbor, RI	New Work:					
		Approp.	-	-	-	-	25,417,022
		Cost	-	-	-	-	25,417,022
		Maint:					
		Approp.	16,900	182,700	-92,500	277,240	51,060,168
		Cost	-7,740	-222,677	-518,756	933,417	50,825,932
	(Contributed Funds)	Maint:					
		Contrib.	-	-	-966,108	-	4,242,002
		Cost	100,000	300,000	-900,000	-	4,213,805

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
	(Contributed Funds, Other)	Maint:					
		Contrib.	-	-	2,590,590	-	6,590,083
24.	Sesuit Harbor, MA	Cost	-	700,000	2,000,000	-	5,996,836
		New Work:					
		Approp.	-	-	-	-	226,306
		Cost	-	-	-	-	226,306
		Maint:					
		Approp.	4,700	12,800	151,200	264,000	2,251,606
25.	Warwick Cove, RI	Cost	4,700	13,509	139,412	273,120	2,248,666
		New Work:					
		Approp.	-	-	-	-	155,430
		Cost	-	-	-	-	155,430
		Maint:					
		Approp.	-	102,600	206,400	46,000	549,149
		Cost	-	102,600	21,137	62,218	380,104
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	133,985
		Cost	-	-	-	-	133,985
	(Contributed Funds, Other)	New Work:					
		Contrib.	-	-	-	-	10,000
		Cost	-	-	-	-	10,000
26.	Westport River, MA	New Work:					
		Approp.	69,000	724,000	192,000	-	988,000
		Cost	47,315	34,436	900,286	991	986,029
		Maint:					
		Approp.	-	1,400	119,100	10,537	143,737
		Cost	-	1,400	116,100	13,537	143,737
	(Contributed Funds)	New Work:					
		Contrib.	-	77,000	119,150	-86,925	109,225
		Cost	-	-	92,378	16,848	109,225
27.	Weymouth-Fore and Town River, MA	New Work:					
		Approp.	-	-	-	-	30,194,613
		Cost	-	-	-	-	30,194,613
		Maint:					
		Approp.	4,759,100	225,100	-86,100	14,200	7,153,921
		Cost	118,066	4,560,751	63,900	14,200	6,962,987
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	630,133
		Cost	-	-	-	-	630,133
29.	Seabrook Harbor, NH	New Work:					
		Approp.	-	-	-	-	3,703,411
		Cost	811	-	-	-	3,702,460
32A.	West Hill Dam, MA	New Work:					
		Approp.	-	-	-	-	2,306,902 ⁴
		Cost	-	-	-	-	2,306,902 ⁴
		Maint:					
		Approp.	706,000	723,000	719,000	618,500	16,647,393
		Cost	735,983	708,082	713,372	635,558	16,626,558
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	443,050	443,050
		Cost	-	-	-	137,718	137,718
		Major Rehab:					
		Approp.	-	-	-	-	13,267,000
		Cost	-	-	-	-	13,267,000
33.	Blackwater River, Salisbury, MA	New Work:					
		Approp.	1,000	-	50,000	40,000	91,000
		Cost	-	-	12,671	26,067	38,738

NEW ENGLAND DISTRICT

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	87,500	87,500
		Cost	-	-	-	28,780	28,780
34.	Charles River (Natural Valley Storage Areas), MA	New Work:					
		Approp.	-	-	-	-	8,606,000
		Cost	-	-	-	-	8,606,000
		Maint:					
		Approp.	276,000	310,000	332,000	264,600	5,302,985
		Cost	291,496	308,525	329,968	263,320	5,271,795
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	714,050	714,050
		Cost	-	-	-	85,455	85,455
35A.	Ball Mountain Lake, VT	New Work:					
		Approp.	-	-	-	-	11,107,842 ⁵
		Cost	-	-	-	-	11,107,842 ⁵
		Maint:					
		Approp.	708,000	1,283,000	918,200	863,660	23,436,522
		Cost	726,902	1,167,247	1,043,810	742,704	23,247,709
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	275,000	275,000
		Cost	-	-	-	-	-
		Major Rehab:					
		Approp.	-	-	550,000	1,800,000	2,350,000
		Cost	-	-	522,441	617,077	1,139,519
35B.	Barre Falls Dam, MA	New Work:					
		Approp.	-	-	-	-	1,967,819
		Cost	-	-	-	-	1,967,819
		Maint:					
		Approp.	568,000	1,035,000	791,000	626,099	15,605,659
		Cost	569,967	817,109	946,916	661,967	15,573,423
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	689,750	689,750
		Cost	-	-	-	23,319	23,319
35C.	Birch Hill Dam, MA	New Work:					
		Approp.	-	-	-	-	4,815,679 ⁶
		Cost	-	-	-	-	4,815,679 ⁶
		Maint:					
		Approp.	572,000	544,017	805,000	555,793	16,314,526
		Cost	592,893	556,321	571,462	735,651	16,234,325
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	453,250	453,250
		Cost	-	-	-	38,773	38,773
	(Contributed Funds- Recreational)	New Work:					
		Contrib.	-	-	-	-	32,000
		Cost	-	-	-	-	32,000
35D.	Colebrook River Lake, CT	New Work:					
		Approp.	-	-	-	-	14,263,971
		Cost	-	-	-	-	14,263,971
		Maint:					
		Approp.	542,000	579,000	946,000	500,340	12,566,919
		Cost	532,188	517,323	588,782	596,321	12,221,744
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	303,200	303,200
		Cost	-	-	-	35,761	35,761
35E.	Conant Brook Dam, MA	New Work:					
		Approp.	-	-	-	-	2,950,530
		Cost	-	-	-	-	2,950,530

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
		Maint:					
		Approp.	321,000	259,000	259,000	215,700	4,931,645
		Cost	322,835	255,178	258,148	218,224	4,919,868
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	64,250	64,250
		Cost	-	-	-	4,337	4,337
35F.	Knightville Dam, MA	New Work:					
		Approp.	-	-	-	-	3,415,640 ⁷
		Cost	-	-	-	-	3,415,640 ⁷
		Maint:					
		Approp.	571,000	538,500	667,400	478,240	17,280,410
		Cost	550,000	524,199	679,344	495,517	17,258,120
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	569,050	569,050
		Cost	-	-	-	34,505	34,505
35G.	Littleville Lake, MA	New Work:					
		Approp.	-	-	-	-	7,013,412
		Cost	-	-	-	-	7,013,412
		Maint:					
		Approp.	501,000	610,000	651,000	504,920	13,138,567
		Cost	495,099	609,079	615,921	478,679	13,062,416
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	288,100	288,100
		Cost	-	-	-	28,059	28,059
35H.	North Hartland Lake, VT	New Work:					
		Approp.	-	-	-	-	7,312,225 ⁸
		Cost	-	-	-	-	7,312,225 ⁸
		Maint:					
		Approp.	610,000	942,000	931,000	600,220	17,513,436
		Cost	506,699	685,488	1,050,794	766,591	17,424,284
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	256,450	256,450
		Cost	-	-	-	26,349	26,349
35I.	North Springfield Lake, VT	New Work:					
		Approp.	-	-	-	-	6,831,526 ⁹
		Cost	-	-	-	-	6,831,526 ⁹
		Maint:					
		Approp.	785,000	938,000	830,000	728,120	22,159,671
		Cost	729,256	866,750	915,061	672,024	22,059,344
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	100,950	100,950
		Cost	-	-	-	40,643	40,643
35J.	Otter Brook Lake, NH	New Work:					
		Approp.	-	-	-	-	4,360,448 ¹⁰
		Cost	-	-	-	-	4,360,448 ¹⁰
		Maint:					
		Approp.	798,000	648,000	802,000	555,900	16,335,195
		Cost	766,754	673,870	717,375	636,517	16,314,263
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	991,200	991,200
		Cost	-	-	-	29,610	29,610
		Major Rehab:					
		Approp.	1,416,000	-240,250	-	-	2,859,750
		Cost	964,090	137,886	100,371	15,577	2,859,633
35K.	Partridge Brook, Westmoreland, NH	New Work:					
		Approp.	48,000	480,000	-	-501	679,499
		Cost	49,601	127,972	346,658	8,218	679,499

NEW ENGLAND DISTRICT

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
	(Contributed Funds)	New Work:					
		Contrib.	-	344,400	-	-54	344,346
		Cost	-	-	336,331	8,015	344,346
35L.	Salmon River, Haddam and East Haddam, CT	New Work:					
		Approp.	650,000	244,000	-	-	1,540,000
		Cost	355,364	523,368	103,908	7,567	1,537,403
	(Contributed Funds)	New Work:					
		Contrib.	12,102	249,500	-	-	956,602
		Cost	222,528	466,934	79,875	2,831	856,216
35M.	Surry Mountain Lake, NH	New Work:					
		Approp.	-	-	-	-	2,833,610 ¹¹
		Cost	-	-	-	-	2,833,610 ¹¹
		Maint:					
		Approp.	644,000	653,000	1,145,000	541,940	17,125,255
		Cost	603,862	674,383	1,113,875	577,098	17,097,386
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	67,000	67,000
		Cost	-	-	-	830	830
35N.	Townshend Lake, VT	New Work:					
		Approp.	-	-	-	-	8,540,545 ¹²
		Cost	-	-	-	-	8,540,545 ¹²
		Maint:					
		Approp.	695,000	865,000	892,000	731,360	20,816,861
		Cost	846,042	834,598	871,613	754,269	20,720,479
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	108,000	108,000
		Cost	-	-	-	13,303	13,303
35O.	Tully Lake, MA	New Work:					
		Approp.	-	-	-	-	1,666,752 ¹³
		Cost	-	-	-	-	1,666,752 ¹³
		Maint:					
		Approp.	516,000	709,000	916,000	518,920	15,005,639
		Cost	516,559	685,589	867,495	586,496	14,990,959
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	212,100	212,100
		Cost	-	-	-	13,175	13,175
	(Contributed Funds - Recreational)	New Work:					
		Contrib.	-	-	-	-	40,000
		Cost	-	-	-	-	40,000
35P.	Union Village Dam, VT	New Work:					
		Approp.	-	-	-	-	4,095,160 ¹⁴
		Cost	-	-	-	-	4,095,160 ¹⁴
		Maint:					
		Approp.	563,000	647,000	643,000	525,280	14,653,249
		Cost	537,175	628,437	554,899	630,588	14,617,133
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	127,750	127,750
		Cost	-	-	-	14,532	14,532
36.	Fox Point Barrier, RI	New Work:					
		Approp.	-	-	-	-	11,112,801
		Cost	-	-	-	-	11,112,801
		Maint:					
		Approp.	-	-	-	532,000	532,000
		Cost	-	-	-	137,138	137,138
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	3,761,200	3,761,200
		Cost	-	-	-	18,162	18,162

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
		Major Rehab:					
		Approp.	520,000	1,100,000	-	-170,000	3,255,000
		Cost	457,809	71,657	44,819	8,456	2,387,393
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	3,679,500 ¹⁵
		Cost	-	-	-	-	3,679,500 ¹⁵
37.	Holmes Bay (Cutler Road), Whiting, ME	New Work:					
		Approp.	26,100	668,000	-	-	944,100
		Cost	24,437	20,491	46,456	482,486	818,957
	(Contributed Funds)	New Work:					
		Contrib.	-	-	468,000	-	468,000
		Cost	-	-	-	164,963	164,963
38A.	Black Rock Lake, CT	New Work:					
		Approp.	-	-	-	-	8,182,300
		Cost	-	-	-	-	8,182,300
		Maint:					
		Approp.	537,000	484,000	535,000	378,280	10,648,272
		Cost	554,252	418,276	513,952	438,344	10,610,405
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	475,200	475,200
		Cost	-	-	-	98,822	98,822
38B.	Hancock Brook Lake, CT	New Work:					
		Approp.	-	-	-	-	4,178,911
		Cost	-	-	-	-	4,178,911
		Maint:					
		Approp.	480,000	340,000	359,000	307,720	5,928,586
		Cost	460,618	335,210	330,378	311,134	5,869,050
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	112,650	112,650
		Cost	-	-	-	16,634	16,634
38C.	Hop Brook Lake, CT	New Work:					
		Approp.	-	-	-	-	6,151,562 ¹⁶
		Cost	-	-	-	-	6,151,562 ¹⁶
		Maint:					
		Approp.	802,000	1,435,000	901,000	835,940	25,018,210
		Cost	846,980	1,320,342	959,792	842,661	24,903,421
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	345,850	345,850
		Cost	-	-	-	37,420	37,420
		Major Rehab:					
		Approp.	-	-	950,000	-	950,000
		Cost	-	-	176,213	139,215	315,428
		Major Rehab: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	4,564,000	4,564,000
		Cost	-	-	-	-	-
38D.	Northfield Brook Lake, CT	New Work:					
		Approp.	-	-	-	-	2,850,512 ¹⁷
		Cost	-	-	-	-	2,850,512 ¹⁷
		Maint:					
		Approp.	440,000	389,500	421,600	349,860	9,318,988
		Cost	420,953	389,999	357,457	390,451	9,247,603
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	144,450	144,450
		Cost	-	-	-	6,518	6,518
38E.	Thomaston Dam, CT	New Work:					
		Approp.	-	-	-	-	14,282,112
		Cost	-	-	-	-	14,282,112

NEW ENGLAND DISTRICT

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
		Maint:					
		Approp.	848,000	689,000	761,000	559,580	18,218,208
		Cost	857,639	676,042	693,408	597,737	18,142,346
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	253,100	253,100
		Cost	-	-	-	6,067	6,067
39A.	Blackwater Dam, NH	New Work:					
		Approp.	-	-	-	-	1,319,746 ¹⁸
		Cost	-	-	-	-	1,319,746 ¹⁸
		Maint:					
		Approp.	596,000	653,000	720,000	485,480	13,335,266
		Cost	643,339	596,330	709,979	528,363	13,310,870
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	118,850	118,850
		Cost	-	-	-	26,393	26,393
39B.	Edward MacDowell Lake, NH	New Work:					
		Approp.	-	-	-	-	2,014,253 ¹⁹
		Cost	-	-	-	-	2,014,253 ¹⁹
		Maint:					
		Approp.	492,000	566,500	618,600	632,460	13,544,042
		Cost	497,075	528,205	611,091	490,979	13,352,741
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	74,350	74,350
		Cost	-	-	-	3,583	3,583
39C.	Franklin Falls Dam, NH	New Work:					
		Approp.	-	-	-	-	7,950,487 ²⁰
		Cost	-	-	-	-	7,950,487 ²⁰
		Maint:					
		Approp.	785,000	721,000	693,000	533,500	20,486,830
		Cost	800,615	660,534	708,757	540,318	20,439,733
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	252,950	252,950
		Cost	-	-	-	54,293	54,293
39D.	Hopkinton-Everett Lakes, NH	New Work:					
		Approp.	-	-	-	-	21,452,440 ²¹
		Cost	-	-	-	-	21,452,440 ²¹
		Maint:					
		Approp.	1,199,000	1,535,000	1,190,700	982,940	32,559,146
		Cost	1,222,092	1,429,149	1,206,252	1,066,554	32,538,733
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	418,000	418,000
		Cost	-	-	-	128,117	128,117
40.	New Bedford, Fairhaven, and Acushnet, MA	New Work:					
		Approp.	-	-	-	-	11,510,088
		Cost	-	-	-	-	11,510,088
		Maint:					
		Approp.	330,000	996,000	656,000	764,560	13,314,659
		Cost	288,193	383,248	335,529	1,513,991	13,068,769
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	1,789,950	1,789,950
		Cost	-	-	-	244,208	244,208
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	6,513,763 ²²
		Cost	-	-	-	-	6,513,763 ²²
41.	Pleasant Point, Perry, ME	New Work:					
		Approp.	-	-	-	-	244,000
		Cost	1,135	-	-	-	238,714

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
42.	Stamford, CT	New Work:					
		Approp.	-	-	-	-	9,901,300
		Cost	-	-	-	-	9,900,639
		Maint:					
		Approp.	396,000	372,000	592,000	340,060	11,777,581
		Cost	290,443	463,020	350,844	504,478	11,666,441
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	503,000	503,000
		Cost	-	-	-	14,957	14,957
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	3,367,970 ²³
		Cost	-	-	-	-	3,367,453 ²³
	(Contributed Funds - Other)	New Work:					
		Contrib.	-	-	-	-	210,000
		Cost	-	-	-	-	209,969
43A.	Buffumville Lake, MA	New Work:					
		Approp.	-	-	-	-	2,998,603 ²⁴
		Cost	-	-	-	-	2,998,603 ²⁴
		Maint:					
		Approp.	525,000	573,500	590,600	478,440	13,582,538
		Cost	525,275	564,797	569,034	506,975	13,554,472
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	251,700	251,700
		Cost	-	-	-	29,651	29,651
43B.	East Brimfield Lake, MA	New Work:					
		Approp.	-	-	-	-	7,057,043 ²⁵
		Cost	-	-	-	-	7,057,043 ²⁵
		Maint:					
		Approp.	405,000	448,000	501,000	388,620	10,995,067
		Cost	417,808	443,285	481,624	420,325	11,985,175
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	648,200	648,200
		Cost	-	-	-	108,914	108,914
43C.	Hodges Village Dam, MA	New Work:					
		Approp.	-	-	-	-	4,461,268 ²⁶
		Cost	-	-	-	-	4,461,268 ²⁶
		Maint:					
		Approp.	524,000	541,000	584,000	457,660	16,260,272
		Cost	501,330	541,943	566,817	506,131	16,245,635
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	230,550	230,550
		Cost	-	-	-	20,422	20,422
		Major Rehab:					
		Approp.	-	-	-	-	18,416,000
		Cost	-	-	-	-	18,416,000
43D.	Mansfield Hollow Lake, CT	New Work:					
		Approp.	-	-	-	-	6,447,164 ²⁷
		Cost	-	-	-	-	6,447,164 ²⁷
		Maint:					
		Approp.	489,000	786,000	583,000	447,860	13,514,632
		Cost	528,704	601,209	774,304	477,647	13,503,859
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	671,400	671,400
		Cost	-	-	-	97,259	97,259
		Major Rehab:					
		Approp.	-	-	250,000	500,000	750,000
		Cost	-	-	142,879	488,545	631,424

NEW ENGLAND DISTRICT

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
43E.	West Thompson Lake, CT	New Work:					
		Approp.	-	-	-	-	7,001,220 ²⁸
		Cost	-	-	-	-	7,001,220 ²⁸
		Maint:					
		Approp.	641,000	691,500	632,400	536,460	15,713,626
		Cost	633,404	616,524	664,431	591,659	15,696,641
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	605,200	605,200
		Cost	-	-	-	74,186	74,186
43F.	Westville Lake, MA	New Work:					
		Approp.	-	-	-	-	5,684,683 ²⁹
		Cost	-	-	-	-	5,684,683 ²⁹
		Maint:					
		Approp.	635,000	573,000	790,000	656,780	13,454,755
		Cost	637,926	528,818	792,336	694,091	13,440,490
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	892,000	892,000
		Cost	-	-	-	144,900	144,900
		Major Rehab:					
		Approp.	-	-	-	753,000	753,000
		Cost	-	-	-	218,090	218,090
44.	Town Brook, Quincy and Braintree, MA	New Work:					
		Approp.	-	-	-	-	33,188,740
		Cost	-	-	-	-	33,187,328
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	4,129,785
		Cost	9,100	2,856	2,170	-	4,120,722
	(Contributed Funds - Other)	New Work:					
		Contrib.	-	-	-	-	9,411,889
		Cost	4,553	-	-	-	9,290,683
45.	Vermont Dams Remediation, VT	New Work:					
		Approp.	-	-	-	-	159,667
		Cost	9,177	-1,894	-	-	153,214
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	82,500
		Cost	2,130	1,989	-	-	82,500
46.	Woonsocket, RI	New Work:					
		Approp.	-	-	-	-	4,033,100
		Cost	-	-	-	-	4,033,100
		Maint:					
		Approp.	-	-	-	294,000	294,000
		Cost	-	-	-	49,098	49,098
		Maint: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	3,545,300	3,545,300
		Cost	-	-	-	17,852	17,852
	(Contributed Funds)	New Work:					
		Contrib.	-	-	-	-	224,476
		Cost	-	-	-	-	224,476
51.	Allin's Cove, Barrington, RI	New Work:					
		Approp.	520,000	20,000	31,000	5,000	1,040,000
		Cost	559,457	6,541	10,903	51,597	1,035,956
	(Contributed Funds)	New Work:					
		Contrib.	44,500	-	9,000	-	284,466
		Cost	234,002	16,801	6,852	8,298	275,831
52.	Broad Meadows Marsh, Quincy, MA	New Work:					
		Approp.	86,000	50,000	3,260,000	200,000	4,120,300
		Cost	74,151	60,007	94,772	173,944	926,109

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

See Section In Text	Project	Funding	FY06	FY07	FY08	FY09	Total Cost to Sep. 30, 2009
	(Contributed Funds)	New Work: Contrib.	-	-	-	1,300,000	1,300,000
		Cost	-	-	-	-	-
53.	Mill River, Stamford, CT	New Work: Approp.	151,000	158,000	4,020,000	-	4,935,000
		Cost	155,228	133,758	166,282	2,351,336	3,408,371
	(Contributed Funds)	New Work: Contrib.	-	-	2,420,000	-	2,420,000
		Cost	-	-	-	678,355	678,355
54.	Nashawannuck Pond, Easthampton, MA	New Work: Approp.	41,000	1,345,000	-	-	1,624,700
		Cost	40,767	60,977	114,060	124,302	578,502
	(Contributed Funds)	New Work: Contrib.	-	-	815,000	-	815,000
		Cost	-	-	6,528	85,780	92,308
55.	Ninigret and Cross Mills Ponds, Charlestown, RI	New Work: Approp.	742,000	650,000	-	10,000	2,921,000
		Cost	1,110,688	91,198	613,612	11,134	2,909,984
	(Contributed Funds)	New Work: Contrib.	450,573	-	-	-	1,529,000
		Cost	631,393	15,656	308,323	1,259	1,315,050
56.	Stewart's Creek, Barnstable, MA	New Work: Approp.	15,000	15,000	-	77,000	107,000
		Cost	8,020	14,308	2,152	46,448	46,448
	(Contributed Funds)	New Work: Contrib.	-	-	-	58,000	58,000
		Cost	-	-	-	14,810	14,810
57.	Ten Mile River, RI	New Work: Approp.	248,000	52,000	1,240,000	-	1,540,000
		Cost	90,240	182,333	147,654	140,973	561,200
		New Work: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	410,000	410,000
		Cost	-	-	-	-	-
	(Contributed Funds)	New Work: Contrib.	-	-	1,197,450	13	1,197,463
		Cost	-	-	-	-	-
58.	Town Pond (Boyd's Marsh), Portsmouth, RI	New Work: Approp.	1,200,000	2,021,000	50,000	-	4,141,000
		Cost	1,270,660	1,779,789	113,891	65,332	4,017,778
	(Contributed Funds)	New Work: Contrib.	391,399	547,560	-	-	1,237,459
		Cost	607,032	499,745	52,992	-	1,172,486
66.	Shpack Landfill, Norton and Attleboro, MA	New Work: Approp.	5,759,000	6,000,000	10,000,000	10,000,000	42,019,000
		Cost	7,419,106	2,527,060	8,493,995	11,124,083	36,912,972
		New Work: (American Recovery and Reinvestment Act)					
		Approp.	-	-	-	5,000,000	5,000,000
		Cost	-	-	-	1,500,000	1,500,000

NEW ENGLAND DISTRICT

TABLE 1-A (Continued) COST AND FINANCIAL STATEMENT

- ¹ Excludes \$ 6,138,157 from Public Works Funds and \$4,849,740 from Emergency Relief Funds.
- ² Includes \$389,929 Code 711 funds and \$511,089 Code 713 funds.
- ³ Excludes \$935,303 Emergency Relief Funds and \$1,030,806 Public Works Funds.
- ⁴ Includes \$18,310 Code 711 funds.
- ⁵ Includes \$504,062 Code 711 funds and \$67,066 for fish passage facility.
- ⁶ Includes \$618,469 Code 711 funds and \$32,000 Code 713 Funds.
- ⁷ Includes \$199,303 Code 711 funds.
- ⁸ Includes \$229,436 Code 711 funds.
- ⁹ Includes \$59,536 Code 711 funds.
- ¹⁰ Includes \$364,688 Code 711 funds.
- ¹¹ Includes \$470,077 Code 711 funds.
- ¹² Includes \$245,168 Code 711 funds and \$1,117,494 for fish passage facility.
- ¹³ Includes \$3,695 Code 711 funds and \$115,138 Code 713 funds.
- ¹⁴ Includes \$88,931 Code 711 funds.
- ¹⁵ Excludes \$245,000 expended for land condemnation.
- ¹⁶ Includes \$143,538 Code 711 funds.
- ¹⁷ Includes \$20,000 Code 711 funds.
- ¹⁸ Includes \$2,881 Code 711 funds.
- ¹⁹ Includes \$6,432 Code 711 funds.
- ²⁰ Includes \$4,671 Code 711 funds.
- ²¹ Includes \$179,727 Code 711 funds.
- ²² Excludes \$146,020 expended to date for land condemnation.
- ²³ Excludes \$199,410 expended to date for land condemnations.
- ²⁴ Includes \$71,943 Code 711 funds.
- ²⁵ Includes \$207,700 Code 711 funds.
- ²⁶ Includes \$6,255 Code 711 funds and \$40,353 Code 713 funds.
- ²⁷ Includes \$68,717 Code 711 funds.
- ²⁸ Includes \$315,420 Code 711 funds.
- ²⁹ Includes \$67,667 Code 711 funds.

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-B AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
July 14, 1960 as amended	AUNT LYDIA'S COVE, CHATHAM, MA (See Section 1 of Text) Entrance channel 100 feet wide by 900 feet long and 9.5 acre anchorage area, both 8 feet deep.	P.L. 86-645, Section 107, Authorized by the Chief of Engineers August 31, 1994.
July 11, 1870	BLOCK ISLAND HARBOR OF REFUGE, RI (See Section 2 of Text) Main breakwater.	Annual report 1868, p. 785 and S. Misc. Doc. 81, 40 th Cong., 2 nd sess.
August 2, 1882 August 5, 1886	Repairs to basin walls and cliff protection east of harbor. Breakwater enclosing inner harbor.	S. Ex. Doc.26, 47 th Cong., 1 st sess. S. Doc. 27, 48 th Cong., 2 nd sess.
June 3, 1896 July 25, 1912	Raising crest of main breakwater and making it sand tight. Rebuilding basin walls and present project dimensions of dredged area.	and Annual Report 1885, p. 610 H. Doc. 83, 54 th Cong., 1 st sess. H. Doc. 828, 60 th Cong., 1 st sess.
November 17, 1986	Deauthorizes two 15-foot anchorages in the outer harbor authorized by the River and Harbor Act of 1912. Inner Harbor.	Section 1002, P.L. 99-662
March 2, 1825 June 14, 1880	BOSTON HARBOR, MA (See Section 3 of Text) Preservation of islands and seawalls. Weir River (Nantucket Beach Channel) 9.5 ft. deep. 100 ft. wide to Steamboat Wharf at Nantasket.	Annual Report, 1881, p. 518
August 5, 1886	Fort Point Channel. ¹	H. Ex. Doc. 206,48 th Cong., 2 nd sess., Annual Report, 1885, p. 543
September 19, 1890	Weir River (Nantucket Beach Channel) 9.5 ft. deep. 150 ft. wide to Steamboat Wharf at Nantasket.	Annual Report, 1890, p. 503
July 25, 1892	Weir River (Nantucket Beach Channel) from mouth of Weir River to Steamboat Wharf at Nantasket Beach 12 ft. deep, 150 ft. wide. Channel 15 feet deep from Long Island to Nixes Mate Shoal (Nixes Mate to Nubble Channel).	Annual Report, 1893, p. 769
July 13, 1892 June 3, 1896	Channel 27 feet from Nantasket Roads to President Roads. Dredge Chelsea River Channel to 18 feet.	Annual Report, 1893, p. 766 H. Ex. Doc. No. 162,53 rd Cong., 3 rd sess., Annual Report, 1895, p. 648
March 3, 1899	For 30-foot channel from sea to President Roads through Broad Sound by less direct route than 35 and 40-foot channels.	H. Doc. 133, 55 th Cong., 2 nd sess. Annual Report, 1898, p. 886
June 13, 1902	For 35-foot channel from sea to Boston Naval Shipyard. Chelsea and Charles River Bridges. Elimination from project of removal of Finns Ledge at outer entrance.	H. Doc. 119, 56 th Cong., 2 nd sess. Annual Report, 1901, p. 1096 Authorized by Chief of Engineers March 11, 1913.
July 25, 1912 August 8, 1917 August 30, 1935 ³	Dredge Chelsea River channel 25 ft. Depth of 40 feet (45 feet in rock) in Broad Sound Channel. Present project dimensions of channel from President Roads to Commonwealth pier No. 1, East Boston and anchorage area north side of President Roads.	H. Doc. 272, 62 nd Cong., 2 nd sess. ² H. Doc. 931, 63 rd Cong., 2 nd sess. ² H. Doc. 244, 72 nd Cong., 1 st sess. ²
Do.	Present project dimensions of that part of approach channel to U.S. Navy dry-dock No.3 at South Boston between Main Ship Channel and U.S. harbor line.	Rivers and Harbors Committee Doc. 29, 74 th Cong., 1st sess. ²
August 26, 1937	Chelsea River, channel 30 feet deep.	Rivers and Harbors Committee Doc. 24, 75 th Cong., 1 st sess. ²
October 17, 1940 September 7, 1940	Reserved channel 30 feet deep. Abandons seaplane channel authorized in 1940 River and Harbor Act (H.Doc.262,76th Cong., 1st sess.)	H. Doc. 225, 76 th Cong., 1 st sess. ² Public Law 420,78 th Cong.
March 2, 1945	Extension of 40-foot channel.	H. Doc. 733, 79 th Cong., 2 nd sess.

NEW ENGLAND DISTRICT

TABLE 1-B (Continued) AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
July 24, 1946	Extension of President Roads anchorage.	H. Doc. 244, 80 th Cong., 1 st sess. ²
July 3, 1958	Reserved channel 35 feet deep, 430 feet wide, extending one	H. Doc. 349, 84 th Cong., 2 nd sess. ²
October 23, 1962	Chelsea River Channel and Maneuvering Basin 35 feet deep.	H. Doc. 350, 87 th Cong., 2 nd sess. ²
January 1, 1990	Deauthorizes 1945 Act.	Federal Register Volume 55, No. 194, October 5, 1990
November 28, 1990	Deepen Mystic River and Reserved Channels to 40 feet; Chelsea River Channel to 38 feet; widen and deepen Inner Confluence Area to 40 feet; mark Presidents Roads Channel and expand Presidents Roads Anchorage from 353 to 420 acres.	Section 101, Public Law 101-640
October 31, 1992	Deauthorizes portion of the 35-foot channel in Boston Inner Harbor lying easterly of the Charlestown waterfront authorized in 1902 River and Harbor Act.	Section 116(2), P.L. 102-580
October 12, 1996	Deauthorizes portion of the 35-foot Chelsea River Channel authorized in the 1962 Act.	Section 364(12), P.L. 104-303
October 12, 1996	Deauthorizes portion of the 40-foot Reserved Channel authorized in the 1990 Act.	Section 364(16), P.L. 104-303
BRIDGEPORT HARBOR, CT (See Section 4 of Text)		
July 4, 1836	Fayerweather Island seawall.	
March 3, 1899	Shore protection of Fayerweather Island.	Annual Report, 1899, page 1173
March 2, 1907	West breakwater and present project dimensions of east breakwater.	H. Docs. 275 and 521, 59 th Cong., 2 nd sess.
March 2, 1919	Present project depths of 18-and 12-foot anchorage basins.	H. Doc. 898, 63 rd Cong., 2 nd sess.
July 3, 1930	25-foot entrance channel, 25-foot anchorage and an 18-foot channel through Johnsons River, present project dimensions of channels through Poquonock River, Yellow Mill Pond, Black Rock Harbor and Cedar Creek.	H. Doc. 281, 71 st Cong., 2 nd sess.
August 26, 1937	25-foot channel through main harbor, and present Project location and extent of 18- and 12-foot anchorage basins.	H. Doc. 232, 75 th Cong., 1 st sess.
March 2, 1945	30-foot channel; elimination of 12-foot anchorage.	H. Doc. 819, 76 th Cong., 3 rd sess.
July 24, 1946	30-foot turning basin and 15- and 9-foot channels in Johnsons River	H. Doc. 680, 79 th Cong., 2 nd sess. ⁴
July 3, 1958	Present depth and extent of main channel, and turning Basin south and southeast of Cilco Terminal; Black Rock Harbor breakwater; Burr and Cedar Creek anchorage. Upper Johnsons River anchorage; lower Johnsons River anchorage.	H. Doc. 136, 85 th Cong.
November 2, 1979	Deauthorizes the removal of rock in Yellow Mill Pond authorized in the 1930 Act.	H. Doc. 157, 96 th Cong., 1 st sess.
November 17, 1986	Deauthorizes construction of two rubble-mound breakwaters at the entrance to Black Rock Harbor and dredging a 28-acre anchorage 6 feet deep in Burr and Cedar Creeks at the head of Black Rock Harbor authorized In the 1958 Act.	Sec, 1002, P. L. 99-662
October 12, 1996	Deauthorizes two-acre anchorage area at the head of the Johnsons River authorized in the 1958 Act, and portion of the Johnsons River navigation channel authorized in the 1946 Act.	Section 364 (2) (A) & (B), P.L. 104-303
August 17, 1999	Deauthorizes a 2.4-acre anchorage area, 9 feet deep , and an adjacent 0.6-acre anchorage area, 6 feet deep, located on the west side of the Johnsons River authorized in the 1958 Act.	Section 365 (a) (1), P.L. 106-53

TABLE 1-B (Continued) AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
September 3, 1954	BULLOCKS POINT COVE, RI (See Section 5 of Text) Provides for an 8-foot channel, 6-foot turning basin, 6-foot anchorage, and breakwater.	H. Doc. 242, 83 rd Cong., 2 nd sess.
January 21, 1927 (Section 2)	CAPE COD CANAL, MA (See Section 6 of Text) Purchase canal from Boston, Cape Cod & New York Canal Co., in accordance with contract dated July 29, 1921, executed by that company.	H. Doc. 139, 67 th Cong., 2 nd sess.
Included in Public Works Administration program, September 6, 1933	Construct three bridges and widen canal to 250 feet.	H. Doc. 795, 71 st Cong., 3 rd sess.
June 26, 1934 (Permanent Appropriations Repeal Act)	Operation and care of works of improvement provided for the funds from War Department appropriations for rivers and harbors.	Do.
Included in Public Works Administration program, April 29, 1935	Construct a mooring basin.	Do.
Included in Emergency Relief Program, May 28, 1935.	Dredging and bank protection.	Do.
August 30, 1935	Existing project for main canal adopted.	Rivers and Harbor Committee Doc. 15, 74 th Cong., 1 st sess.
March 2, 1945 July 3, 1958	Channel and turning basin 15-foot deep in Onset Bay. Extend East Boat Basin for an area of about 4.3 acres to a depth of eight feet.	H. Doc. 431, 77 th Cong., 1 st sess. H. Doc. 168, 85 th Cong., 1 st sess.
August 17, 1999	Authorizes Secretary to pay up to \$300,000 for alternate transportation during rehabilitation of the Railroad Bridge.	Section 536, P.L. 106-53
June 3, 1896 March 4, 1913 October 23, 1962	CARVERS HARBOR, VINALHAVEN, ME (See Section 7 of Text) Provides for 16-foot anchorage area. Provides for two 10-foot anchorage areas along south side of harbor. Provides for 10-foot anchorage area adjacent to main waterfront and 6-foot access channel.	H. Doc. 624, 62 nd Cong., 2 nd sess. S. Doc. 118, 87 th Cong., 2 nd sess.
August 17, 1999	Deauthorizes a portion of the 16-foot anchorage area authorized by the River and Harbor Act of 1896.	Section 365 (a) (6), P.L. 106-53
March 12, 1945	CHATHAM (STAGE) HARBOR, MA (See Section 8 of Text) Entrance Channel 10 feet deep, 150 feet wide from Chatham Roads into upper harbor.	H. Doc. 456, 77 th Cong., 1 st sess. Annual Report 1942
August 2, 1882	CLINTON HARBOR, CT (See Section 9 of Text) Maintenance of a stone dike closing a breach of sandy peninsula which separates river from outer harbor.	S. Ex. Doc. 84, 47 th Cong., 1 st sess.
March 2, 1945 August 17, 1999	8-foot channel and anchorage Deauthorizes the upstream portion of project authorized by the River and Harbor Act of 1945.	H. Doc. 240, 76 th Cong., 1 st sess. Section 365 (a) (2), P.L. 106-53
September 19, 1890	COCHECO RIVER, NH (See Section 10 of Text) Provides for a 3-mile long tidewater channel 7 feet deep and 60 to 70 feet wide.	H. Doc. 74, 51 st Cong. 1 st sess.
October 12, 1996	Deauthorizes portion of 1890 Act and directs maintenance dredging of the remaining project.	Section 365(18), P.L. 104-303

NEW ENGLAND DISTRICT

TABLE 1-B (Continued) AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
June 3, 1896 June 13, 1902	GREAT SALT POND, BLOCK ISLAND, RI (See Section 12 of Text) Channel and jetties. Extension of south jetty and dredging.	H. Doc. 57, 54 th Cong., 1 st sess. Specified in Act. Annual Report for 1900, p. 1276.
March 2, 1945 November 17, 1986	Channel and basin in inner harbor. Deauthorizes the north jetty at the entrance to Great Salt Pond authorized in the 1896 Act, and the 12-foot access channel and basin in the inner harbor authorized in the 1945 Act.	H. Doc. 330, 77 th Cong., 1 st sess. Sec. 1002, P.L. 99-662.
July 14, 1960 as amended	GREEN HARBOR, MA (See Section 13 of Text) Channel six feet deep, 100 feet wide from deep water to head of navigation; anchorage near town pier; sealing, rebuilding in part and extension of existing west jetty.	Section 107, P.L. 86-645, Authorized by the Chief of Engineers December 15, 1965
August 17, 1999	Deauthorizes portion of the 6-foot channel and turning basin, and re-designates portion of 6-foot channel as an anchorage area.	Section 365 (a)(11) & (d), P.L. 106-53
March 3, 1899	MERRIMACK RIVER, MA (See Section 14 of Text) Channel 7 feet deep and 150 feet wide extending from deep water in Newburyport Harbor to the railroad bridge in Haverhill, along with removal of a sand bar at the mouth of the river and rock removal in Merrimack.	River and Harbor Act of 1899
September 19, 1890 July 25, 1912 March 4, 1913 March 2, 1945 November 17, 1986 October 12, 1996 November 8, 2007	MYSTIC RIVER, CT (See Section 15 of Text) Channel from Fishers Island Sound to highway bridge. Restoration and maintenance of original project. Channel above highway bridge. Channel widening to Murphy Point, anchorage and turning basin. Deauthorizes uncompleted portion of 1945 Act. Deauthorizes small portion of 1913 Act. Deauthorizes small portion of 1890 Act.	Annual Report for 1890, p. 746 H. Doc. 858, 61 st Cong., 2 nd sess. H. Doc. 637, 77 th Cong., 1 st sess. H. Doc. 349, 77 th Cong., 1 st sess. Section 1002, P. L. 99-662 Section 364(4), P.L. 104-303 Section 3181, P.L. 110-114
October 23, 1962	NARRAGUAGUS RIVER, ME (See Section 16 of Text) Channel 11 feet deep and 150 feet wide from deep water to Wyman, thence 9 feet deep and 100 feet wide to Milbridge with widening opposite Milbridge for an anchorage, and thence 6 feet deep and 100 feet wide to proposed town landing with widening near landing for an anchorage.	H. Doc. 530, 87 th Cong., 2 nd sess.
March 2, 1907 March 3, 1909 July 25, 1912	NEW BEDFORD AND FAIRHAVEN HARBOR, MA (See Section 17 of Text) The 25-foot anchorage area north of Palmer Island Extension of the 25-foot channel along New Bedford wharf front. The 18-foot channel in Acushnet River to Belleville (project feature was abandoned by Congress in 1955).	H. Doc. 271, 59 th Cong., 2 nd sess. Specified in act. H. Doc. 442, 62 nd Cong., 2 nd sess.
July 3, 1930	The 30-foot channel, anchorage, and maneuvering area (channel limited to width of 350 feet).	H. Doc. 348, 71 st Cong., 2 nd sess.
August 30, 1935	Present project dimensions of the anchorage area north of Palmer Island and maintenance of the 25-foot anchorage. Elimination from the project of the prior authorization for enlarging and deepening the maneuvering area 30-feet deep east of the harbor channel.	Rivers and Harbors Committee Doc. 16, 74 th Cong., 1 st sess.
August 26, 1937	The 15-foot and 10-foot channels along Fairhaven wharf.	Rivers and Harbors Committee Doc. 25, 75 th Cong., 1 st sess.
November 17, 1986	Deauthorizes the 18-foot channel in Acushnet River to Bellville authorized in the 1912 Act.	Section 1002, P. L. 99-662
August 17, 1999	Deauthorizes portion of the 25-foot spur channel leading to the west of Fish Island authorized in the 1909 Act, and portion of the 30-foot maneuvering area authorized in the 1930 Act.	Section 365 (a) (10), P. L. 99-662

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-B (Continued) AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
June 14, 1880	NEWBURYPORT HARBOR, MA (See Section 18 of Text)	
June 25, 1910	Construction of rubble stone jetties.	Annual Report for 1910, p. 59
March 2, 1945	Dredging the bar at the entrance to harbor.	H. Doc. 703, 76 th Cong., 3 rd sess.
November 17, 1986	Channel from deep water to wharves and widened turning basin.	Section 1002, P. L. 99-662
October 31, 1992	Deauthorizes uncompleted portions of the 1945 Act.	Section 116(3), P.L. 102-580
	PATCHOGUE RIVER, CT (See Section 20 of Text)	
September 3, 1954	Channel 8 feet deep from Duck Island Roads to U.S. Route 1 Bridge, 600-foot jetty, and anchorage and maneuvering area.	H. Doc. 164, 83 rd Cong., 1 st sess.
July 14, 1960	Widen existing channel to 125 feet in Long Island Sound to confluence of the Patchogue and Menunketesuck Rivers.	Section 107, P.L. 86-645, Authorized by the Chief of Engineers April 12, 1983
	PROVIDENCE RIVER AND HARBOR, RI (See Section 23 of Text)	
August 26, 1937	Channel 35 feet deep from deep water in Narragansett Bay to Fox Point.	H. Doc. 173, 75 th Cong., 1 st sess.
October 27, 1965	Deepen 35-foot channel to 40 feet, and provide a 30-foot channel from the upper end of the existing project to India Point at the mouth of the Seekonk River. (The India Point channel was deauthorized in November 1986.)	S. Doc. 93, 88 th Cong., 2 nd sess.
November 17, 1986	Deauthorizes uncompleted portions of the 1965 Act consisting of the India Point channel.	Section 1002, P. L. 99-662
	SESUIT HARBOR, MA (See Section 24 of Text)	
July 14, 1960	Channel 6 feet deep and 100 feet wide.	Section 107, P.L. 86-645, Authorized by the Chief of Engineers February 6, 1980
	WARWICK COVE, RI (See Section 25 of Text)	
July 14, 1960	Entrance channel 6 feet deep and 150 feet wide into the through lower portion of cove, then 100 feet wide to head of navigation; and four anchorage areas 6 feet deep and totaling 13 acres.	Section 107, P.L. 86-645, Authorized by the Chief of Engineers May 21, 1965
	WESTPORT RIVER, MA (See Section 26 of Text)	
August 5, 1886	Provides for removal of obstructions in the east and west channels to a depth of 7 feet and construction of wooden jetties.	Annual Report, 1885, p.
September 19, 1890	Provides for the construction of a 150 foot-long jetty.	Annual Report, 1890, p.
June 20, 1938	Provides for an entrance channel 12 feet deep, 200 feet wide and 1,200 feet long; an inner channel 9 feet deep, 100 feet wide and 8,500 feet long; and a training dike.	
January 1, 1990	Deauthorizes 1938 Act.	Federal Register Volume 55, No. 194, October 5, 1990
July 14, 1960	Provides for an entrance channel 9 feet deep and 150 to 200 feet wide extending from deep water in the Atlantic Ocean up the Westport River 9,700 feet to Westport Harbor.	P.L. 86-645, Section 107, Authorized by the Chief of Engineers June 19, 2007
	WEYMOUTH-FORE AND TOWN RIVER, MA	
	(See Section 27 of Text)	
October 27, 1965	Combines Weymouth-Fore and Town Rivers into single project and modifies construction of 35-foot channel and anchorage.	H. Doc. 247, 88 th Cong., 2 nd sess.
October 12, 1996	Deauthorizes portions of the 15 and 35-foot channels near the southern limit of the project authorized in the 1965 Act.	Section 364 (17) (A) & (B), P.L. 104-303
	SEABROOK HARBOR, NH (See Section 29 of Text)	
October 12, 1996	Construct shoreline erosion control and demonstration project involving dredging of the Blackwater River and closure of breach.	Section 227(e) P.L. 104-303, Authorized by the Chief of Engineers May 10, 2004

NEW ENGLAND DISTRICT

TABLE 1-B (Continued) AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
June 30, 1948, as amended	BLACKWATER RIVER, SALISBURY, MA (See Section 33 of Text) Construct 2,765 feet of concrete floodwall and two pumping stations to control interior runoff.	Section 205, P.L. 80-858, Authorized by the Chief of Engineers August 20, 2008
July 24, 1946, as amended	PARTRIDGE BROOK, WESTMORELAND, NH (See Section 35K of Text) Construct 180 linear feet of stone slope protection along the east bank of the Connecticut River and 160 linear feet of steel sheeting along the south bank of Partridge Brook adjacent to municipal wastewater treatment lagoon.	Section 14, P.L. 79-526, Authorized by the Chief of Engineers May 9, 2007
June 30, 1948, as amended	SALMON RIVER, HADDAM AND EAST HADDAM, CT (See Section 35L of Text) Construct a pier-type ice control structure across the Salmon River about 200 feet upstream of Leesville Dam to retain ice breakup and reduce downstream flooding.	Section 205, P.L. 80-858, Authorized by the Chief of Engineers September 9, 2004
July 3, 1958	FOX POINT BARRIER, RI (See Section 36 of Text) Construction of concrete hurricane barrier across Providence River at Fox Point in the City of Providence.	H. Doc. 230, 85 th Cong., 1st Sess.
August 17, 1999	Directs Secretary to undertake repairs of the barrier as identified in Condition Survey and Technical Assessment dated April 1998, with Supplemental dated August 1998.	Section 352, P.L. 106-53
October 17, 2006	Transfers, no later than October 17, 2008, operation and maintenance responsibility to the Corps of Engineers.	Section 2866, National Defense Authorization Act for FY 2007, P.L. 109-364
July 24, 1946, as amended	HOLMES BAY (CUTLER ROAD), WHITING, ME (See Section 37 of Text) Construct 500 linear feet of stone slope protection along the shoreline of Holmes Bay adjacent to Cutler Road (Route 191).	Section 14, P.L. 79-526, Authorized by the Chief of Engineers August 6, 2007
July 24, 1946, as amended	PLEASANT POINT, PERRY, ME (See Section 41 of Text) Construct 800 linear feet of stone slope protection along the shoreline of Pleasant Point.	Section 14, P.L. 79-526, Authorized by the Chief of Engineers July 31, 1986
November 17, 1986	TOWN BROOK, QUINCY AND BRAINTREE, MA (See Section 44 of Text) Construct 12-foot diameter, 4,060-foot long, concrete lined tunnel in bedrock about 140 to 180 feet below ground; channel improvements downstream of the tunnel outlet; and reconstruction of Old Quincy Reservoir Dam located at the headwaters of Town Brook.	H. Doc. 39, 99 th Cong., 1 st sess.
December 11, 2000	VERMONT DAMS REMEDIATION, VT (See Section 45 of Text) Evaluate the structural integrity of ten priority dams in Vermont and carry out measures to modify, repair, restore or remove if the dam poses an imminent and substantial risk to public safety.	Section 543, P.L. 106-541
November 8, 2007	Identifies ten additional priority dams in Vermont and includes measures to restore, protect and preserve ecosystems affected by these dams.	Section 3156, P.L. 110-114
December 22, 1944	WOONSOCKET, RI (See Section 46 of Text) Construction of 8,300 feet of channel widening and deepening, 1,115 feet of earth dike, 316 feet of concrete floodwall, and pumping station; along with reconstruction of Woonsocket Falls Dam.	H. Doc. 624, 78 th Cong., 2nd Sess.
January 28, 2008	Transfers operation and maintenance responsibility of the project to the Corps of Engineers.	Section 2875, National Defense Authorization Act for FY 2008, P.L. 110-181

TABLE 1-B (Continued) AUTHORIZING LEGISLATION

Acts	Work Authorized	Documents
November 17, 1986	ALLIN'S COVE, BARRINGTON, RI (See Section 51 of Text) Restoration of 3.6 acres and protection of 0.7 acres of salt marsh by excavating material, realigning the inlet of the cove and constructing two sand spits.	Section 1135, P.L. 99-662, Authorized by the Chief of Engineers June 10, 2004
November 17, 1986	BROAD MEADOWS MARSH, QUINCY, MA (See Section 52 of Text) Restoration of 37 acres of salt marsh habitat and 12 acres of saltwater channels and pools by excavating and grading dredged material.	Section 1135, P.L. 99-662, Authorized by the Chief of Engineers August 3, 2004
October 12, 1996	MILL RIVER, STAMFORD, CT (See Section 53 of Text) Restoration of acres of open water and acres of upland habitat	Section 206, P. L. 104-303, Authorized by the Chief of Engineers September 20, 2004
October 12, 1996	NASHAWANNUCK POND, EASTHAMPTON, MA (See Section 54 of Text) Restoration of 8 acres of open water by removal of approximately 54,000 cubic yards of accumulated sediments.	Section 206, P. L. 104-303, Authorized by the Chief of Engineers August 29, 2007
October 12, 1996	NINIGRET AND CROSS MILLS PONDS, CHARLESTOWN, RI (See Section 55 of Text) Dredging 40 acres of tidal shoal area and planting eelgrass, dredging 3.5-acre sediment basin and construction of fish passage facilities at Ninigret Pond and Cross Mills Pond dams.	Section 206, P. L. 104-303, Authorized by the Chief of Engineers September 4, 2002
November 7, 2000	STEWART'S CREEK, BARNSTABLE, MA (See Section 56 of Text) Restoration of 35 acres of salt marsh habitat and 20 acres of coastal salt pond by excavating and grading dredged material along with construction of a larger culvert.	Section 106, P.L. 106-457, Approved by the Estuary Habitat Restoration Council on December 3, 2002
November 17, 1986	TEN MILE RIVER, RI (See Section 57 of Text) Construction of fish passage facilities at the three lowest dams along the Ten Mile River.	Section 1135, P.L. 99-662, Authorized by the Chief of Engineers December 1, 2005
November 17, 1986	TOWN POND (BOYD'S MARSH), PORTSMOUTH, RI (See Section 58 of Text) Restoration of 20 acres of salt marsh by excavating material to create channels and improve tidal flushing.	Section 1135, P.L. 99-662, Authorized by the Chief of Engineers May 17, 2002

¹ A portion has been abandoned pursuant to P.L. 624, December 31, 1970.

² Contains latest published maps. See also Annual Report, 1911, p. 1178 (seawalls and Nixes Mate Channel) and Annual Report, 1903, p. 770 (Fort Point Channel.)

³ Authorized in part by Public Works Administration, Sept. 6, 1933.

⁴ Contains latest maps.

NEW ENGLAND DISTRICT

TABLE 1-C OTHER AUTHORIZED NAVIGATION PROJECTS

Project	For Last Full Report See Annual Report for	Cost to September 30, 2009		
		Construction	Operation and Maintenance	Contributed Funds Expended (Construction)
Andrews River, MA	2002	219,042	1,118,423	187,500
Apponaug Cove, RI	1964	156,874	79,169	104,583 ⁷
Bagaduce River, ME ^{3,4}	1912	28,000	1,839	-
Bar Harbor, ME	1932	406,591	2,187	-
Bass Harbor, ME ⁶	1965	188,859	120,172	-
Bass Harbor Bar, ME	1920	4,076	20,382	-
Beals Harbor, ME	1959	184,880	212,077	-
Belfast Harbor, ME	2003	61,561	1,905,757	-
Bellamy River, NH ^{3,4}	1897	34,643	112,200	-
Beverly Harbor, MA	1951	246,048	54,727	100,000
Black Rock Harbor, CT	1988	-	1,763,393	-
Branford Harbor, CT	1990	9,537	1,986,907	-
Bucks Harbor, Machiasport, ME ⁶	1976	277,420	152,992	-
Bucksport Harbor, ME	1907	18,421	22,233	-
Bunker Harbor, ME ⁶	1969	95,372	33,406	-
Buttermilk Bay Channel, MA ⁶	1985	163,855	347,838	69,323
Camden Harbor, ME	2003	102,400	745,989	-
Canapitsit Channel, MA ⁴	1899	9,113	26,579	-
Cape Porpoise Harbor, ME	1977	175,037	377,364	20,000
Cathance River, ME ³	1884	21,000	-	-
Coasters Island Harbor, RI ⁴	1911	5,500	13,361	-
Cobscook Bay, ME ^{3,4}	1866	4,173	-	-
Cohasset Harbor, MA	2000	267,737	2,012,842 ³¹	43,500
Corea Harbor, Gouldsboro, ME ⁶	1984	797,954	146,669	-
Criehaven Harbor, ME	1997	40,776	517,617	-
Cross Rip Shoals Nantucket Sound, MA	1954	24,200	59,728	-
Cuttyhunk Harbor, MA	2000	27,168	1,827,247 ³²	11,643
Damariscotta River, ME ⁴	1906	5,000	905	-
Deer Island Thoroughfare, ME ⁴	1916	40,000	5,792	-
Dorchester Bay and Neponset River, MA	1968	94,584	524,724	-
Duck Island Harbor, CT	1953	482,166	426,964	-
Duxbury Harbor, MA	1997	421,297	3,110,740 ²⁷	35,000 ²⁶
Edgartown Harbor, MA	1978	65,614	130,080	10,000
Essex River, MA	1948	21,759	257,181 ⁸	-
Exeter River, NH ⁴	1913	62,454	250,032	-
Fall River Harbor, MA ¹	1984	6,164,757 ⁹	2,336,067	-
Falmouth Harbor, MA	1978	123,763	378,749	35,000
Fivemile River Harbor, CT	2000	35,490	1,312,121	-
Frenchboro Harbor, ME	1978	657,345	103,416	-
Georges River, ME	1978	25,788	331,414	-
Gloucester Harbor and Annisquam River, MA	2000	1,296,934	2,297,848	25,000
Greenwich Bay, RI	1893	2,000	61,619	-
Greenwich Harbor, CT	1969	198,758	317,272	100,000
Guilford Harbor, CT	1995	137,222	2,119,177	25,500
Hampton Harbor, NH	1996	200,000	2,535,307	193,761
Harraseeket River, ME ⁴	1896	30,963	41,769	-
Hay (West Harbor), Fisher's Island, NY	1931	8,401	82,862	-
Hendrick's Harbor, ME	1957	28,204	27,325	-
Hingham Harbor, MA	1954	28,316	208,420	-
Housatonic River, CT	1983	859,691	2,986,028	222,010
Hyannis Harbor, MA	2001	4,113,358 ²⁴	2,544,663 ³⁰	772,918

TABLE 1-C (Continued) OTHER AUTHORIZED NAVIGATION PROJECTS

Project	For Last Full Report See Annual Report for	Cost to September 30, 2009		
		Construction	Operation and Maintenance	Contributed Funds Expended (Construction)
Ipswich River, MA	1969	5,618	146,234	-
Island End River, Chelsea, MA ⁶	1983	311,850	15,518	192,336 ¹⁰
Isle Au Haut Thoroughfare, ME	1980	137,653	230,786	-
Isle of Shoals Harbor, ME and NH	1977	80,691	651,644	-
Jonesport Harbor, ME	1992	7,489,073	88,128	832,119
Josias River, ME ⁵	1995	621,186	496,902	79,668 ²²
Kennebec River, ME	2004	1,599,940	6,987,593	-
Kennebunk River, ME	2005	261,417	2,780,957	88,917
Kingston Harbor (North Plymouth), MA	1895	8,940	32,500	-
Lagoon Pond, Martha's Vineyard, MA ⁶	1976	99,098	57,786	80,990
Lamprey River, NH ⁴	1913	19,980	94,123	-
Little Harbor, NH	2003	133,227	2,179,236	-
Little Harbor, Woods Hole, MA ⁴	1906	18,000	40,473	-
Lubec Channel, ME	1956	380,322	103,789	-
Lynn Harbor, MA	2002	755,576	886,734	-
Machias River, ME	1972	32,000	301,367	-
Malden River, MA ¹⁹	1922	104,853	120,797	62,000
Matinicus Harbor, ME	1962	14,000 ¹¹	8,989	-
Medomak River, ME	1953	17,000	175,859	-
Menemsha Creek, MA	1981	56,926	804,359	12,500
Mianus River, CT	1985	132,435	1,229,612	46,500
Milford Harbor, CT ⁵	1989	90,506	1,590,802	11,380 ¹²
Moosabec Bar, ME	1930	11,400	25,327	-
Mystic River, MA	1986	3,222,777	2,102,078	-
Nantucket (Harbor of Refuge), MA	1989	502,661 ¹³	835,400	-
New Harbor, ME ⁵	1966	118,620	134,091	7,015 ¹⁴
New Haven Breakwater, CT	1950	1,242,246	40,273	-
New Haven Harbor, CT	2004	4,773,246 ²¹	21,540,558	-
New London Harbor, CT	1986	638,774	2,233,100	-
Newport Harbor, RI	1953	733,524	264,478	-
Niantic Bay and Harbor, CT ⁶	1972	66,464	215,003	65,139
Owl's Head Harbor, ME ^{3,5}	1968	124,158	72,924	4,383
Pawcatuck River, Little Narragansett Bay and Watch Hill Cove, RI and CT	1997	318,787	2,041,160	20,000
Pawtuxet Cove, RI	2008	295,356	1,732,946 ²⁰	295,356
Penobscot River, ME	2003	501,020	1,559,975	-
Pepperell Cove, ME	1969	171,351	59,856	-
Pig Island Gut, ME ⁶	1966	191,753	210,956	-
Pleasant River, ME	1892	3,500	217	-
Plymouth Harbor, MA	2005	2,127,218 ³⁷	2,150,276 ³⁸	541,611
Pollock Rip Shoals, Nantucket Sound, MA	1956	1,083,504	852,490	-
Portsmouth Harbor and Piscataqua River, NH & ME	2001	18,360,800	3,751,428	4,437,665
Potowomut River, RI	1882	5,000	37,450	-
Provincetown Harbor, MA ⁵	1997	3,889,577	1,059,666	797,847
Richmond Harbor, ME ⁴	1883	20,000	2,100	-
Richmond's Island Harbor, ME ⁴	1882	119,844	2,308	-
Rockland Harbor, ME	2003	1,948,462 ²⁵	1,712,578	-
Rockport Harbor, MA	1996	1,808,745	412,678	51,430
Rockport Harbor, ME ³	1989	32,000	325,766	-
Royal River, ME ⁵	1997	336,704	1,962,055 ²⁸	49,562 ²⁹
Rye Harbor, NH	1991	130,342	859,918	61,338 ¹⁶
Saco River, ME ⁵	1995	1,064,983	3,097,655	74,996
St. Croix River, ME	1950	179,550	64,685	19,892

NEW ENGLAND DISTRICT

TABLE 1-C (Continued) OTHER AUTHORIZED NAVIGATION PROJECTS

Project	For Last Full Report See Annual Report for	<u>Cost to September 30, 2009</u>		
		Construction	Operation and Maintenance	Contributed Funds Expended (Construction)
Sakonnet Harbor, RI	2001	764,651	481,404	21,928
Sakonnet River, RI	1909	38,427	51,478	-
Salem Harbor, MA	2008	1,693,202	3,574,843	-
Sandy Bay (Harbor of Refuge), Cape Ann, MA ¹⁷	1922	1,925,553	16,060	-
Sasanoa River, ME ^{3,4}	1915	35,000	624	-
Saugus River, MA ⁶	2004	3,879,853	125,300	289,725 ³³
Scarborough River, ME	2005	392,635	4,193,588	10,000
Scituate Harbor, MA	2003	379,851	5,640,529	69,976
Searsport Harbor, ME	1966	572,568 ¹⁵	192,570	-
Seekonk River, Providence, RI	2004	818,837	-	788,173 ³⁴
Seekonk River, RI	1954	672,214	1,167,373	67,792
South Bristol Harbor, ME	1971	89,593	81,723	2,567
Southport Harbor, CT	2005	59,213 ¹⁸	1,553,335	18,285
Southwest Harbor, ME	1962	180,042	90,085	7,501
Stamford Harbor, CT	1980	892,824	2,000,447	169,636
Stockton Harbor, ME ^{3,4}	1915	33,000	95,776	-
Stonington Harbor, CT	1959	377,328	168,673	-
Stonington Harbor, ME ⁶	1985	898,500	45,258	-
Stony Creek, Branford, CT ⁶	1995	112,487	877,197	85,176
Sullivan Falls Harbor, ME	1914	19,871	-	-
Taunton River, MA	1948	442,895	152,217	-
Thames River, CT	1967	1,471,919	2,104,140	-
Union River, ME	2003	146,855	3,293,555	-
Vineyard Haven, MA	1943	27,186	74,706	-
Wareham Harbor, MA	1896	95,997	146,591	-
Warren River, RI	1890	5,000	1,300	-
Wellfleet Harbor, MA	1995	157,634	2,019,513	32,000
Wells Harbor, ME	2004	360,973	4,770,405 ³⁵	212,000 ³⁶
Westcott Cove, CT	1978	55,960	362,248	21,000
Westport Harbor and Saugatuck River, CT	1972	19,308	695,944	-
Weymouth Back River, MA	1944	48,740	27,353	20,000
Wickford Harbor, RI ⁵	1973	233,410	258,850	49,094 ²³
Wilson Point Harbor, CT ⁴	1895	54,177	21,000	-
Winnepesaukee Lake, NH	1952	7,500	29,870	-
Winter Harbor, ME ⁶	1976	162,937	45,438	-
Winthrop Harbor, MA	1895	8,992	79,915	-
Wood Island Harbor and the Pool at Biddeford, ME ⁵	1995	733,272	678,195	43,660
Woods Hole Channel, MA	1940	230,000	74,714	-
York Harbor, ME	1997	239,654	1,157,248	32,161

TABLE 1-C (Continued) OTHER AUTHORIZED NAVIGATION PROJECTS

Projects are complete unless otherwise noted.

- ¹ Complete except for inactive portion.
 - ² Inactive.
 - ³ Abandonment recommended in H. Doc. 467, 69th Congress, 1st session.
 - ⁴ No commerce reported.
 - ⁵ Portion of project authorized by Chief of Engineers (Public Law 86-645, Sec. 107).
 - ⁶ Authorized by the Chief of Engineers (Public Law 86-645, Sec. 107).
 - ⁷ Construction of a public landing by local interests has not been completed.
 - ⁸ Excludes \$5,000 Contributed Funds.
 - ⁹ Excludes \$37,200 Contributed Funds, Other.
 - ¹⁰ Excludes \$582,188 Contributed Funds, Other.
 - ¹¹ Excludes \$114,327 expended for rehabilitation; breakwater repaired in 1962.
 - ¹² Excludes \$173,425 Contributed Funds, Other.
 - ¹³ Excludes \$211,649 expended for minor rehabilitation; jetty repaired in 1963.
 - ¹⁴ Public landing at Black Cove has not been constructed.
 - ¹⁵ Costs to local interests for berth improvements are estimated to be \$60,000.
 - ¹⁶ Excludes \$81,548 Contributed Funds, Other.
 - ¹⁷ Abandonment recommended in H. Doc. 411, 64th Congress, 1st session, and in River and Harbor Committee Doc. 3, 65th Congress, 1st session.
 - ¹⁸ Excludes \$37,714 Emergency Relief Funds.
 - ¹⁹ Under State maintenance.
 - ²⁰ Excludes \$108,054 Contributed Funds expended for cost sharing construction of an aquatic confined disposal cell in the Providence River for placement of maintenance material.
 - ²¹ Includes \$290,877 National Industrial Recovery Funds and \$59,207 Public Works Funds.
 - ²² Excludes \$17,495 non-project cost for removal of mooring chains, of which the project sponsor still owes \$12,198.
 - ²³ Excludes \$10,000 Contributed Funds.
 - ²⁴ Excludes \$129,757 expended for minor rehabilitation work.
 - ²⁵ Excludes about \$225,000 expended by local interest in terminal and transfer facilities.
 - ²⁶ Excludes \$65,000 consisting of \$13,000 for public wharf and \$52,000 for additional construction.
 - ²⁷ Excludes \$571,401 Contributed Funds.
 - ²⁸ Excludes \$20,000 Contributed Funds, Other.
 - ²⁹ Excludes \$18,000 Contributed Funds, Other.
 - ³⁰ Excludes \$476,782 Contributed Funds, Other.
 - ³¹ Excludes \$83,476 Contributed Funds, Other.
 - ³² Excludes \$50,000 Contributed Funds.
 - ³³ Excludes \$96,730 expended by the Town of Saugus for divers to assist in the location and removal of channel obstructions and \$132,559 contributed funds other.
 - ³⁴ Excludes \$104,550 for LERRD and \$5,000 credit for the value of scrape metal, and includes \$87,886 expended by the City of Providence for asbestos removal.
 - ³⁵ Excludes \$417,757 Contributed Funds, Other for dredging municipal berthing areas.
 - ³⁶ Excludes \$5,000 Contributed Funds, Other.
 - ³⁷ Excludes \$894,475 expended for major rehabilitation.
 - ³⁸ Excludes \$400 Contributed Funds.
-

NEW ENGLAND DISTRICT

TABLE 1-D OTHER AUTHORIZED BEACH EROSION CONTROL PROJECTS

Project	For Last Full Report See Annual Report For	Cost to Sep. 30, 2009 Construction	Amount Expended by Local Interest
Burial Hill Beach, Westport, CT	1958	5,810	11,612
Calf Pasture Beach Park, Norwalk, CT	1964	56,386	120,179
Clark Point Beach, New Bedford, MA ⁵	1982	228,081	228,080
Cliff Walk, Newport, RI ¹	1995	1,155,491	955,237
Compo Beach, Westport, CT	1962	84,544	169,089
Cove Island, Stamford, CT	1961	47,131	94,262
Cummings Park, Stamford, CT	1963	26,886	53,771
Guilford Point Beach (Jacobs Beach), Guilford, CT	1961	15,620	31,241
Gulf Beach, Milford, CT	1958	21,303	42,606
Hammonasset Beach, Madison, CT	1956	163,183	326,366
Hampton Beach, Hampton, NH	1966	260,868	385,641
Jennings Beach, Fairfield, CT	1956	14,401	28,802
Lighthouse Point Park (Area 9), CT	1961	3,930	7,859
Middle Beach, CT	1958	8,810	17,620
Misquamicut Beach, Westerly, RI ²	1963	14,512	29,024
North Scituate Beach, Scituate, MA	1969	106,552	106,552
Oak Bluffs Town Beach, Martha's Vineyard, MA ⁵	1976	273,334	198,583
Oakland Beach, Warwick, RI ⁴	1982	559,200	181,175
Plum Island, MA ⁵	1977	118,882	104,875
Point Beach, Milford, CT	2006	2,454,787	1,277,095
Prospect Beach, West Haven, CT ⁴	1995	1,870,407	1,089,351
Quincy Shore Beach, Quincy, MA	1962	621,464	1,242,880
Revere Beach, MA	1994	3,889,016	2,197,312
Roosevelt Campobello International Park, Lubec, ME	1993	233,260	-
Sand Hill Cove Beach, RI	1959	40,143	82,000
Sandy Point Outfall, West Haven, CT ⁵	1996	889,634	457,495
Sasco Hill Beach, Fairfield, CT	1961	23,759	47,518
Sea Bluff Beach, West Haven, CT ⁵	1995	677,170	237,628
Seaside Park, CT	1958	150,000	329,921
Sherwood Island State Park, Westport, CT ⁴	1983	1,186,830	889,330
Short Beach, CT ³	1956	-	-
Silver Beach to Cedar Beach, CT	1964	62,560	270,695
Southeast Lighthouse, Block Island, RI	1995	1,648,249	970,000
Southport Beach, CT	1960	17,631	35,263
Town Beach, Plymouth, MA	1964	5,490	10,981
Wallis Sands State Beach, Rye, NH	1966	65,131	435,942
Wessagusset Beach, Weymouth, MA	1971	180,944	200,208
Winthrop Beach, MA	1960	176,567	353,134
Woodmont Beach, Milford, CT ⁴	2001	2,043,765	1,089,515 ⁶

Projects are completed unless otherwise noted.

¹ Complete except inactive portion.

² Additional Federal participation will be required based on Public Law 87-874, Sec. 103.

³ Project completed at no cost to Federal Government by using fill from Federal navigation improvement at Housatonic River. (See page 88 of the 1956 Annual Report.)

⁴ Portion authorized by Chief of Engineers (Public Law 87-874, Sec. 103.)

⁵ Authorized by Chief of Engineers (Public Law 87-874, Sec. 103.)

⁶ Excludes \$118,215 expended for work beyond scope of project.

TABLE 1-E OTHER AUTHORIZED FLOOD CONTROL PROJECTS

Project	For Last Full Report See Annual Report for	Cost to September 30, 2009	
		Construction	Contributed Funds
Alford, Green River, MA ³	1977	41,419	-
Allendale Dam, North Providence, RI ²⁶	2001	109,500	-
Alley Bay, Beals, ME ³	1979	190,500	-
Amesbury, Powwow River, MA ³	1978	132,113	-
Ansonia - Derby, CT	1977	18,266,040	- ⁸
Aroostook River, Fort Fairfield, ME ²	2002	4,849,991	941,580
Bagaduce River, ME ³	1985	129,500	-
Beaver Brook, Keene, NH ²	1989	2,591,000	-
Blackstone River, Millbury, MA ³	1986	249,999	4,576
Bluffs Community Center, Swansea, MA ³	1995	189,131	54,447
Bound Brook, Scituate, MA ⁴	1974	47,300	-
Canton, MA ²	1964	156,568	92,981
Charles River Dam, MA	1981	41,170,921	5,554,088 ⁹
Charlestown, NH ³	1976	113,330	-
Cherryfield, ME ²	1963	191,095	-
Chicopee, MA	1954	1,433,600	385
Chicopee Falls, MA	1978	2,183,912	411,292 ¹⁰
Clear River, Burrillville, RI ³	1987	168,000	-
Cochecho River, Farmington, NH ²	1963	183,100	-
Connecticut River, Middletown, CT ³	1996	262,046	69,121 ²³
Connecticut River, North Stratford, NH ³	1982	180,000	-
Connecticut River, W. Stewartstown, NH ³	1976	54,703	-
Danbury, CT	1978	13,143,000	- ¹¹
Derby, CT	1977	7,582,642	- ¹²
East Branch Dam, CT	1973	1,959,836	-
East Hartford, CT	1951	2,135,447	7,637
Farmington River, Simsbury, CT ³	1996	500,000	257,720 ²²
Faulkners Island, CT	2003	3,168,000	-
Fitchburg, MA (See No. Nashua River)	-	-	-
Folly Brook, Wethersfield, CT ²	1979	220,284	-
Fort Kent, ME ²	1979	1,997,820	-
Gardner, MA ²	1970	495,691	15,000
Gulf Street, Milford, CT ³	1991	365,000	21,000
Hall Meadow Brook Dam, CT	1970	2,572,357	-
Hartford, CT	1960	6,929,100	2,781,100
Hartford, White River, VT ²	1973	332,236	-
Haverhill, MA	1940	1,743,485	120,000
Hayward Creek, Braintree-Quincy, MA ²	1979	2,325,470	-
Holmes Bay, Whiting, ME ³	1980	207,390	-
Holyoke, MA	1953	3,418,000	24,447
Hoosic River, Syndicate Road, Williamstown, MA ³	2004	318,525	137,796 ²⁷
Housatonic River, Covered Bridge, Sheffield, MA ³	1988	250,000	180,000
Housatonic River, Lee, MA ³	1976	37,852	-
Housatonic River, Pittsfield, MA ²	1985	739,003	-
Housatonic River, Salisbury, CT ³	1982	102,800	-
Housatonic River, Sheffield, MA ³	1981	202,608	-
Huntington, MA ³	1960	3,900	-
Island Avenue, Quincy, MA ³	1983	172,000	-
Islesboro (The Narrows), ME ³	1985	165,500	-
Johnson Bay, Lubec, ME ³	1985	163,082	-
Keene, NH ⁴	1955	44,100	-
Lancaster, Israel River, NH ²	1997	595,878	-
Little River, Belfast, ME ³	1990	166,682	43,000
Lowell, MA	1945	1,284,974	-

NEW ENGLAND DISTRICT

TABLE 1-E (Continued) OTHER AUTHORIZED FLOOD CONTROL PROJECTS

Project	For Last Full Report See Annual Report for	<u>Cost to September 30, 2009</u>	
		Construction	Contributed Funds
Lower Woonsocket, RI	1977	6,600,681	1,266,638 ¹⁴
Machias River, Machias, ME ³	1987	152,000	-
Machias Bay, Machiasport, ME ³	1995	133,473	32,733 ¹⁵
Mad River Lake, CT	1973	4,773,020	-
Mad River, Waterbury (Woodtick Area), CT ²	1998	1,177,905	270,183 ¹³
Marginal Way, Ogunquit, ME ³	1987	243,000	-
Merriconeag Sound, Harpswell, ME ³	1980	107,682	-
Mill Brook, Brownsville, VT ³	1988	110,000	-
Narraguagus River, Milbridge, ME ³	1995	132,967	24,893 ¹⁶
Nashua, NH	1950	270,000 ⁶	327
New London Hurricane Barrier, CT	1992	8,504,919 ⁷	2,015,709 ²¹
Nonewaug River, Woodbury, CT ³	1985	222,500	-
Northampton, MA	1950	960,000	-
North Canaan, Blackberry River, CT ⁴	1977	73,865	-
North Nashua River, Fitchburg, MA	1981	4,605,000	-
North Nashua River, Lancaster, MA ³	1979	81,671	-
North Nashua River, Lancaster (Route 70), MA ³	2003	253,751	115,097
North Nashua River, Leominster, MA ³	1997	152,756	50,919
North Nashua River, Leominster (Sewer Line), MA ³	1997	221,455	73,818
Norwalk, CT ²	1952	52,150	-
Norwich, CT	1960	1,209,000	-
Park River, Hartford, CT	1986	60,176,919	- ¹⁷
Pawcatuck, CT	1966	644,311	214,106
Pawtuxet River, Warwick, RI ²	1986	3,174,260	-
Penobscot River, Old Town, ME ²	1986	178,045	-
Perley Brook, Fort Kent, ME ³	1994	70,990	20,554 ¹⁸
Point Shirley, Winthrop, MA ³	1995	500,000	182,419
Port 5 Facility, Bridgeport, CT ³	1986	227,500	-
Prestile Stream, Blaine, ME ³	1980	73,674	-
Quonset Point, Davisville, RI	2006	2,221,150	1,109,496
Riverdale, West Springfield, MA ⁵	1996	1,905,261	221,614 ²⁴
Roughans Point, Revere, MA	2008	7,726,967	3,644,558 ²⁸
Saint John River Basin, ME	2004	511,822	275,596
Salmon River, Colchester, CT ³	1983	247,100	-
Sand Cove, Gouldsboro, ME ³	1984	127,500	-
Saugus River & Tributaries, MA ¹	1997	5,525,000	-
Saxtons River, Rockingham, VT ³	1985	140,500	-
Sudbury River, Saxonville, MA	1980	4,218,700	- ¹⁹
Sebago Lake, Standish, ME ³	1998	500,000	346,009
Sebasticook River, Hartland, ME ²	1985	1,857,475	-
Shelburne, Androscoggin River, NH ³	1977	37,657	-
Smelt Brook, Weymouth-Braintree, MA ²	1978	1,803,738	-
South River, Conway, MA ³	1987	133,500	-
Springdale, MA	1952	700,000	-
Springfield, MA	1950	932,000	5,350
Squantz Pond, New Fairfield, CT ³	1983	116,296	-
Stony Brook, Wilton, NH ⁴	1973	19,500	-
Sucker Brook Dam, CT	1976	2,227,792	58,800
Three Rivers, MA	1970	1,577,189	- ²⁰
Torrington, East Branch, CT ²	1963	389,237	-
Torrington, West Branch, CT ²	1963	228,237	-
Town River Bay, Quincy, MA ³	1993	55,228	18,409
Ware, MA ²	1963	400,000	-
Waterbury-Watertown, CT ²	1963	265,300	-

TABLE 1-E (Continued) OTHER AUTHORIZED FLOOD CONTROL PROJECTS

Project	For Last Full Report See Annual Report for	Cost to September 30, 2009	
		Construction	Contributed Funds
Weston, VT ⁴	1957	13,000	-
West Branch, Westfield River, Huntington, MA ³	1983	119,433	-
West River, New Haven, CT ²	1996	3,883,293	748,840 ²⁵
West Springfield, MA ⁵	1992	2,043,728	14,343
West Warren, MA ²	1964	389,200	41,000
Winsted, CT	1954	245,500	-
Worcester Diversion, MA	1978	5,086,896	70,161

Projects are complete unless otherwise noted.

¹ Inactive.

² Authorized by Chief of Engineers (Public Law 80-858, Sec. 205).

³ Authorized by Chief of Engineers (Public Law 79-526, Sec. 14)

⁴ Authorized by Chief of Engineers (Public Law 83-780, Sec. 208)

⁵ Portion Authorized by Chief of Engineers (Public Law 80-858, Sec. 205).

⁶ Excludes \$147,366 Flood Control and Coastal Emergency funds expended.

⁷ Excludes \$852,127 non-project cost per 1976 WRDA.

⁸ Excludes \$727,460 Contributed Funds, Other.

⁹ Excludes \$1,674,567 Contributed Funds, Other.

¹⁰ Excludes \$12,000 expended for land condemnations and \$25,184 Contributed Funds, Other for relocations.

¹¹ Excludes \$1,146,828 Contributed Funds, Other.

¹² Excludes \$406,653 Contributed Funds, Other.

¹³ Excludes \$122,452 for lands.

¹⁴ Excludes \$488,920 Contributed Funds, Other.

¹⁵ Excludes \$11,758 for lands.

¹⁶ Excludes \$6,120 for lands.

¹⁷ Excludes \$259,408 Contributed Funds, Other.

¹⁸ Excludes \$3,109 for lands.

¹⁹ Excludes \$8,503 Contributed Funds, Other.

²⁰ Excludes \$565,168 Contributed Funds, Other.

²¹ Excludes \$1,629,256 for lands and \$303,251 Contributed Funds, Other.

²² Excludes \$10,195 for lands.

²³ Excludes \$24,134 Contributed Funds, Other.

²⁴ Excludes \$109,140 for land and \$46,929 Contributed Funds, Other.

²⁵ Excludes \$554,638 for lands and \$71,650 Contributed Funds, Other.

²⁶ Design only, project constructed under EPA Superfund Program.

²⁷ Excludes \$12,179 for lands.

²⁸ Excludes \$516,117 for lands.

NEW ENGLAND DISTRICT

TABLE 1-F OTHER AUTHORIZED MULTI-PURPOSE PROJECTS INCLUDING POWER

Project	For Last Full Report See Annual Report for	Cost to September 30, 2009	
		Construction	Contributed Funds
Passamaquoddy Tidal Power Project, ME ¹	1935	6,384,394	-

¹ Work discontinued in 1937. Facilities transferred to War Assets Administration.

TABLE 1-G OTHER AUTHORIZED ENVIRONMENTAL PROJECTS

Project	For Last Full Report See Annual Report for	Cost to September 30, 2009	
		Construction	Contributed Funds
Galilee Salt Marsh, RI ¹	2000	1,274,979	424,993 ³
Lebanon, NH	2008	4,836,163	5,074,525
Lonsdale Drive-In, Lincoln, RI ²	2007	1,646,546	381,159 ⁴
Nashua, NH ⁷	2008	147,000	-
Naugatuck River, Torrington, CT ¹	2001	96,327	32,109
Presumpscot River (Smelt Hill Dam), Falmouth, ME ²	2004	653,239 ⁵	- ⁶
Sagamore Marsh, Cape Cod Canal, MA ¹	2008	1,856,206	617,902

¹ Authorized by Chief of Engineers (Public Law 99-662, Sec. 1135).

² Authorized by Chief of Engineers (Public Law 104-303, Sec. 206).

³ Excludes \$836,381 Contributed Funds, Other.

⁴ Excludes \$505,443 for lands and \$33,776 for asbestos abatement and local betterment.

⁵ Excludes \$12,759 for historical costs not included in total project costs.

⁶ Excludes \$366,184 for lands partially offset by a Federal reimbursement of \$14,440.

⁷ Work discontinued in 2006 because of uncertainty of future appropriations.

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-H DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report for	Date Deauthorized	Funds Expended	
			Federal	Contributed Funds
Alternative for Sugar Hill Reservoir	-	Aug 1977	-	-
Andover Lake, CT	-	Aug 1977	-	-
Apponaug Cove, RI (portion of 1960 Act)	1964	Aug 1999	-	-
Bagaduce River, ME (uncompleted portion)	-	Oct 1978	-	-
Baker Brook, MA	1972	Nov 1979	94,000	-
Bar Harbor, ME (uncompleted portion of 1888 & 1890 Acts)	1932	Nov 1986	-	-
Bass Harbor, ME (portions of Section 107 project)	1965	Aug 1999	-	-
Beards Brook Reservoir, NH	1949	Aug 1977	78,000	-
Beaver Brook Lake, NH	1973	Apr 1978	378,300	-
Bennington Reservoir, NH	1949	Aug 1977	205,000	-
Big River Reservoir, RI (portion of 1986 Act)	1987	Nov 1990	-	-
Black Rock Harbor, CT (uncompleted portion of 1958 Act)	1988	Nov 1986	-	-
Block Island Harbor of Refuge, RI (uncompleted portion of 1912 Act)	2009	Nov 1986	-	-
Boothbay Harbor, ME (Portion of 1912 Act)	1953	Oct 1992	-	-
Boothbay Harbor, ME	1953	Aug 1999	18,000	-
Boston Harbor, MA (1945 Act)	2009	Jan 1990	-	-
Boston Harbor, MA (portion of 1902 Act)	2009	Oct 1992	-	-
Boston Harbor, MA (portion of Chelsea River 1962 Act)	2009	Oct 1996	-	-
Boston Harbor, MA (portion of Reserved Channel 1990 Act)	2009	Oct 1996	-	-
Brant Rock Beach, Marshfield, MA	1961	Nov 1979	-	-
Branford Harbor, CT (portion of 1902 of Act)	1990	Oct 1990	-	-
Bridgeport Harbor, CT (portions of 1958 Act)	2009	Nov 1986	-	-
Bridgeport Harbor, CT (uncompleted portion of 1930 Act)	2009	Nov 1979	-	-
Bridgeport Harbor, CT (portion of 1946 Act)	2009	Oct 1996	-	-
Bridgeport Harbor, CT (portion of 1958 Act)	2009	Oct 1996	-	-
Bridgeport Harbor, CT (portion of 1958 Act)	2009	Aug 1999	-	-
Bridgeport Harbor, CT (portion of 1930 Act)	2009	Nov 2007	-	-
Bristol Harbor, RI	1987	Apr 2002	316,288	-
Brockway Lake, VT	1946	Aug 1977	-	-
Bucksport Harbor, ME (portion of 1902 Act)	1907	Aug 1999	-	-
Cambridgeport Lake, VT	-	Aug 1977	-	-
Carvers Harbor, Vinalhaven, ME (portion of 1896 Act)	2009	Aug 1999	-	-
Chicopee, MA (uncompleted portion)	1954	Aug 1977	-	-
Claremont Lake, NH	1968	Dec 1970	242,700	-
Clinton Harbor, CT (portion of 1945 Act)	2009	Aug 1999	-	-
Clyde, RI	1948	Apr 1951	8,800	-
Cochecho River, NH (portion of 1890 Act)	2009	Oct 1996	-	-
Cohasset Harbor, MA (portion of 1945 Act)	2000	Oct 1996	-	-
Cohasset Harbor, MA (portion of Section 107 project)	2000	Oct 1996	-	-
Connecticut River (above Hartford), CT	1932	Jan 1990	132,146	-
Connecticut River below Hartford, CT (uncompleted portion)	2009	Oct 1978	-	-
Connecticut River below Hartford, CT (1950 Act)	2009	Nov 1986	-	-
Cotuit Harbor, MA	1962	Oct 1978	8,541	-
Dickey - Lincoln School Lakes, ME (portion of 1965 Act)	1984	Nov 1986	26,285,298	-
Dorchester Bay and Neponset River, MA (uncompleted portion)	1968	Jan 1990	-	-
East Boothbay Harbor, ME (portion of 1910 Act)	1953	Oct 1996	-	-
East Boothbay Harbor, ME	1953	Aug 1999	6,500	-
Eastport Harbor, ME	1984	Nov 1983	638,675	141,530
Edgartown Harbor, MA (uncompleted portion of 1965 Act)	1978	Nov 1986	-	-
Fall River Harbor, MA (uncompleted portion of 1930 Act)	1984	Nov 1986	-	-
Falmouth Harbor, MA (portion of 1948 Act)	1978	Oct 1996	-	-

NEW ENGLAND DISTRICT

TABLE 1-H (Continued)

DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report for	Date Deauthorized	Funds Expended	
			Federal	Contributed Funds
Falmouth Harbor, MA (portion of 1948 Act)	1978	Aug 1999	-	-
Falmouth Harbor, MA (portion of 1948 Act)	1978	Nov 2007	-	-
Fivemile River Harbor, CT (uncompleted portion)	2000	Oct 1978	-	-
Gaysville Lake, VT	1970	Oct 1976	206,600	-
Gorton's Pond, Warwick, RI	-	Nov 1991	-	-
Great Salt Pond, Block Island, RI (uncompleted portion of 1945 Act)	2009	Nov 1986	-	-
Greenwich Harbor, CT (portion of 1919 Act)	-	Nov 1990	-	-
Greenwich Point Beach, CT	1969	Oct 1978	-	-
Green Harbor, MA (portion of Sec 107 project)	2009	Aug 1999	-	-
Guilford Harbor, CT (portion of 1945 Act)	1995	Oct 1996	-	-
Housatonic River, CT (uncompleted portion of 1888 Act)	1983	Nov 1979	-	-
Honey Hill Lake, NH	1949	Aug 1977	92,000	-
Ipswich River, MA (uncompleted portion of 1968 Act)	1969	Nov 1986	-	-
Island End River, Chelsea, MA (portion of 1960 Act)	1983	Nov 2007	-	-
Kennebec River, ME (uncompleted portion of 1902 Act)	2004	Nov 1986	-	-
Kennebunk River, ME (portion of 1962 Act)	2005	Oct 1996	-	-
Ludlow Lake, VT	-	Aug 1977	-	-
Lynn Harbor, MA (uncompleted portions of 1954 & 1935 Acts)	2002	Nov 1986	-	-
Lynn-Nahant Beach, MA	1986	Apr 1999	50,000	-
Manchester Harbor, MA	1949	Nov 1979	23,986	-
Marblehead Harbor, MA	1968	Oct 1978	43,711	-
Mattapoissett Harbor, MA	1950	Oct 1978	-	-
Merrimack River, Lowell to Lawrence, MA	-	Nov 1991	-	-
Mianus River, CT (portion of 1945 Act)	1985	Nov 1986	-	-
Milford Harbor, CT (uncompleted portion of 1902 & 1937 Acts)	1989	Nov 1986	-	-
Monoosnoc Brook, MA	1967	Nov 1986	-	-
Monoosnoc Lake, MA	1967	Nov 1986	-	-
Mountain Brook Dam, NH	1949	Aug 1977	57,000	-
Mystic, CT	1968	Aug 1972	67,700	-
Mystic River, CT (uncompleted portion of 1913 Act)	2009	Nov 1986	-	-
Mystic River, CT (portion of 1913 Act)	2009	Oct 1996	-	-
Mystic River, CT (portion of 1890 Act)	2009	Nov 2007	-	-
Mystic River, MA (portion of 1950 Act)	1986	Oct 1996	-	-
Nantasket Beach, MA	1971	Jan 1990	-	-
Nantucket Harbor of Refuge, MA (uncompleted portion of 1945 Act)	1989	Nov 1986	-	-
Nantucket Harbor of Refuge, MA (uncompleted portion of 1880 Act)	1989	Jan 1990	-	-
Napatree Beach, RI	-	Nov 1979	-	-
Narragansett Pier, RI	1966	Nov 1970	115,590	-
Narragansett Town Beach, RI	-	Nov 2007	27,398	-
Neponset River, Milton Town Landing to Port Norfolk, MA	-	Nov 1991	-	-
New Bedford and Fairhaven Harbor, MA (uncompleted portion of 1912 Act)	2009	Nov 1986	-	-
New Bedford and Fairhaven Harbor, MA (portion of 1909 & 1930 Acts)	2009	Aug 1999	-	-
Newburyport Harbor, MA (uncompleted portion of 1945 Act)	2009	Nov 1986	-	-
Newburyport Harbor, MA (portion of 1910 Act)	2009	Oct 1992	-	-
Newport Harbor, RI (portion of 1907 Act)	1953	Nov 1999	-	-
New Haven Harbor, CT (uncompleted portion of 1946 & 1910 Acts)	2004	Nov 1986	-	-
New Haven Harbor, CT (1986 Act)	2004	Apr 2002	-	-
Nookagee Lake, MA	1976	Nov 1986	563,677	-

REPORT OF THE SECRETARY OF THE ARMY ON CIVIL WORKS ACTIVITIES FOR FY 2009

TABLE 1-H (Continued) DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report for	Date Deauthorized	Funds Expended	
			Federal	Contributed Funds
North Andover and Lawrence, MA	1949	Aug 1977	20,000	-
North Hampton Beach, North Hampton, NH	1963	Nov 1981	-	-
Northeast Harbor, ME	1954	Jan 2009	138,942	-
Norwalk Harbor, CT (portion of 1919 Act)	2009	Oct 1996	-	-
Norwalk Harbor, CT (portion of 1919 Act)	2009	Nov 2008	-	-
Norwalk-Wilton, CT	1973	Nov 1979	-	-
Patchogue River, CT (portion of 1954 Act)	2009	Oct 1996	-	-
Pawcatuck River, Little Narragansett Bay, RI & CT (uncompleted portions of 1896 Act)	1997	Nov 1986	-	-
Pawcatuck River, Little Narragansett Bay, RI and CT (1960 Act)	1997	Nov 1979	-	-
Pawtucket, RI	1949	Nov 1977	-	-
Pepperell Cove, ME (uncompleted portion)	1969	Nov 1981	-	-
Phillips Lake, MA	1982	May 1997	300,000	-
Pleasant Bay, MA	1971	Nov 1986	-	-
Point Judith, RI	1968	Nov 1977	198,477	-
Pontiac Diversion, RI	1948	Apr 1951	24,200	-
Providence River and Harbor, RI (uncompleted portion)	2009	Nov 1986	-	-
Provincetown Beach (Herring Cove), MA	1961	Oct 1978	-	-
Provincetown Harbor, MA (uncompleted portion)	1997	Oct 1978	-	-
Quonset Point-Davisville, RI	-	Nov 2007	-	-
Rockland Harbor, ME (uncompleted portion of 1956 Act)	2003	Nov 1986	-	-
Rockland Harbor, ME (uncompleted portion of 1896 Act)	2003	Nov 2007	-	-
Rockport Harbor, ME (portion of 1888 Act)	2003	Nov 2007	-	-
Saco River, ME (uncompleted portion)	1995	Oct 1979	-	-
Sakonnet Harbor, RI (uncompleted portion)	2001	Jun 1982	176,000	-
Salem Harbor, MA (inactive portion of 1905 Act)	2008	Jul 1995	-	-
Salem Harbor, MA (uncompleted portion of 1945 Act)	2008	Nov 1986	-	-
Sandy Bay, Cape Ann, MA (uncompleted portion)	1922	Oct 1978	-	-
Searsport Harbor, ME (portion of 1962 Act)	1966	Aug 1999	-	-
Silver Beach to Cedar Beach, CT (uncompleted portion of 1954 Act)	1964	Nov 1986	-	-
South Coventry Lake, CT	1951	Aug 1977	96,000	-
Southport Harbor, CT (portion of 1935 Act)	2005	Oct 1996	-	-
South Tunbridge Lake, VT	-	Aug 1977	-	-
Stamford Harbor, CT (2 projects uncompleted portions)	1980	Oct 1978	-	-
Stamford Harbor, CT (inactive portion)	1980	Jan 1990	-	-
Stonington Harbor, CT (uncompleted portion of 1950 Act)	1959	Nov 1986	-	-
Stonington Harbor, ME (1960 Act)	1985	Nov 1979	2,543	-
Stony Creek, CT (portion of 1960 Act)	1995	Oct 1996	-	-
Stratford, CT	1973	Mar 1977	934,500	-
Sugar Hill Reservoir, NH	1946	Dec 1944	-	-
Taunton River, MA (inactive portion)	1948	Jan 1990	-	-
Tenants Harbor, ME	1920	Jan 2009	18,750	-
Thames River, CT (uncompleted portion of 1945 Act)	1967	Nov 1986	-	-
The Island Lake, VT	-	Aug 1977	-	-
Thumperton Beach, Eastham, MA	1961	Nov 1979	-	-
Town Beach, Plymouth, MA (inactive portion)	1964	Jan 1990	-	-
Town Neck Beach, Sandwich, MA (portion of 1960 Act)	1961	Nov 1986	-	-
Trumbull Lake, CT	1983	May 1997	1,498,800	-
Victory Lake, VT	1967	Aug 1977	168,400	-
Wareham Harbor, MA (inactive portion)	1896	Jan 1990	-	-
Wareham-Marion, MA	1965	Aug 1977	81,715	-
Wells Harbor, ME (portion of 1960 Act)	2004	Aug 1999	-	-
West Brookfield Reservoir, MA	1965	Aug 1977	67,000	-

NEW ENGLAND DISTRICT

TABLE 1-H (Continued) DEAUTHORIZED PROJECTS

Project	For Last Full Report See Annual Report for	Date Deauthorized	Funds Expended	
			Federal	Contributed Funds
West Canaan Lake, NH	1948	Aug 1977	92,000	-
Westerly, RI	1966	Nov 1986	-	-
Westfield, MA	1967	Sep 1969	507,200	-
Westport, CT	1965	Feb 1970	29,634	-
Westport Harbor and Saugatuck River, CT (uncompleted portion of 1892 & 1954 Acts)	1972	Nov 1979	-	-
Westport River, MA (1938 Act)	2009	Jan 1990	-	-
Weymouth-Fore and Town River, MA (portion of 1965 Act)	2009	Oct 1996	-	-
Whitmanville Lake, MA	1979	Jul 1995	605,023	-

TABLE 1-I NAVIGATION ACTIVITIES PURSUANT TO SECTION 107, PUBLIC LAW 86-645 (PREAUTHORIZATION)

Study Identification	Fiscal Year Costs	Contributed Funds Expended
Bass Harbor, Tremont, ME	23,385	-
Bass Harbor, Tremont, ME (American Recovery and Reinvestment Act)	43,154	-
Blackwater River, Hampton Harbor, NH	10,234	1,327
Bucks Harbor, Machiasport, ME	10,891	14,289
Bucks Harbor, Machiasport, ME (American Recovery and Reinvestment Act)	47,731	-
Coordination	5,618	-
Charlestown Breachway & Ninigret Pond, Charlestown, RI	5,679	-
East Boat Basin, Sandwich, MA	42,445	47,171
Oaks Bluff Harbor, Martha's Vineyard, MA	18,157	-
Round Pond Harbor, Bristol, ME	-	-
Woods Hole Great Harbor, Falmouth, MA	2,071	-

TABLE 1-J MITIGATION OF FEDERAL NAVIGATION PROJECTS PURSUANT TO SECTION 111, PUBLIC LAW 90-483 (PREAUTHORIZATION)

Study Identification	Fiscal Year Costs	Contributed Funds Expended
Camp Ellis, Saco, ME	125,446	-
Coordination	2,853	-

**TABLE 1-K BEACH EROSION ACTIVITIES PURSUANT TO SECTION 103,
PUBLIC LAW 87-874 (PREAUTHORIZATION)**

Study Identification	Fiscal Year Costs	Contributed Funds Expended
Coastal Areas, Marshfield, MA	-	-
Coordination	6,966	-
Nantasket Beach, Hull, MA	3,667	55,383

**TABLE 1-L FLOOD CONTROL ACTIVITIES PURSUANT TO SECTION 205
PUBLIC LAW 80-858 (PREAUTHORIZATION)**

Study Identification	Fiscal Year Costs	Contributed Funds Expend
Aberjona River, Winchester, MA	995	-
Coordination	16,012	-
Jewett Brook, Laconia, NH	-	-
North River, Peabody, MA	63,450	25,751
Salisbury River, Brockton, MA	6,432	-
Saugatuck River, Westport, CT	-	-

**TABLE 1-M EMERGENCY BANK PROTECTION ACTIVITIES PURSUANT
TO SECTION 14, PUBLIC LAW 79-526 (PREAUTHORIZATION)**

Study Identification	Fiscal Year Costs	Contributed Funds Expended
Aroostook River, Mapleton, ME	18,999	-
Coordination	5,886	-
Quoddy Narrows, South Lubec Road, Lubec, ME	3,440	-
Quoddy Narrows, South Lubec Road, Lubec, ME (American Recovery and Reinvestment Act)	3,051	-
Westfield River, Agawam, MA	5,759	-
Westfield River, Old Route 9, Cummington, MA	4,885	-

**TABLE 1-N ENVIRONMENTAL IMPROVEMENT ACTIVITIES PURSUANT
TO SECTION 1135, PUBLIC LAW 99-662 (PREAUTHORIZATION)**

Study Identification	Fiscal Year Costs	Contributed Funds Expended
Coordination	8,362	-
Half-Moon Cove, Perry, ME	4,194	-
NMLC, Buzzards Bay, MA	-	-
North Nashua River, Fitchburg, MA	27,734	-

NEW ENGLAND DISTRICT

TABLE 1-O AQUATIC ECOSYSTEM RESTORATION ACTIVITIES PURSUANT TO SECTION 206, PUBLIC LAW 99-662 (PREAUTHORIZATION)

Study Identification	Fiscal Year Costs	Contributed Funds Expended
Assabet River, MA	-	-
Bass River Salt Marsh Restoration, Yarmouth, MA	-	-
Bird Island Restoration, Marion, MA	111,112	-
Brush Neck Cove, Warwick, RI	57,499	-
Coordination	9,197	-
Lower Blackstone River, RI	-	-
Manhan Dam, Easthampton, MA	-	-
Milford Pond, Milford, MA	222,690	-
Mill Pond, Littleton, MA	35,749	-
Mill Pond Restoration, Nashua, NH	-	-
Narrows River, Narragansett, RI	26,369	-
Neponset River, Boston, MA	61,260	-
Osgood Pond Restoration, Milford, NH	14,921	-
Pleasant River Salt Marsh Restoration, Addison, ME	-	-
Reedy Meadow Marsh Restoration, Saugus, MA	-	-
Run Pond Coastal Ecosystem Restoration, MA	10,117	-
Treat's Pond, Cohasset, MA	13,971	-
Winnapaug Pond, Westerly, RI	1,748	-
Wiswall Dam, Durham, NH	-	-

TABLE 1-P BENEFICIAL USE OF DREDGED MATERIAL ACTIVITIES PURSUANT TO SECTION 204, PUBLIC LAW 102-580 (PREAUTHORIZATION)

Study Identification	Fiscal Year Costs	Contributed Funds Expended
Cape Cod Canal, Sandwich, MA	32,965	-
Chatham Stage Harbor, Chatham, MA	64,442	-
Coordination	5,839	-
Newburyport Harbor, MA	108,538	-

**TABLE 1-Q BLACKSTONE RIVER BASIN, MA AND RI
(See Section 32 of Text)
RESERVOIR**

Name	Nearest City	Miles Above Mouth of Blackstone River	Height (feet)	Type	Reservoir Capacity (acre-feet)	<u>Estimated Federal Cost</u>		
						Construction	Lands and Damages ¹	Total
West Hill ²	Worcester, MA	25.8	51	Earth fill	12,400	\$ 1,366,922	\$ 940,000	\$ 2,306,902

¹ Includes highway, railroad, and utility relocations.

² See individual report for details.

LOCAL PROTECTION PROJECTS

Location	Miles Above Mouth of Connecticut River	Type of Structure	<u>Estimated Cost</u>		
			Construction	Lands and Damages ¹	Total
Worcester, MA	48	Diversion tunnel and channel	\$ 4,923,500	\$ 1,179,000 ²	\$ 6,102,500
Woonsocket, RI	15	Channel improvement	3,733,100	1,069,000 ³	4,802,100
Lower Woonsocket, RI	13	Flood wall, conduits and channel improvement	8,356,239	435,000	8,791,239
Blackstone River, Millbury, MA	32	Slope protection	256,619	-	256,619 ⁵
Clear River, Burrillville, RI	23	Retaining wall	168,000	-	168,000
Pawtuxet River, Warwick, RI	-	Land acquisition	4,125,000	-	4,125,000 ⁴

¹ Includes highway, railroad, and utility relocations.

² \$158,000 Federal; \$1,021,000 non-Federal.

³ \$300,000 Federal; \$769,000 non-Federal.

⁴ \$3,300,000 Federal; \$825,000 non-Federal.

⁵ \$250,000 Federal; \$6,619 non-Federal.

NEW ENGLAND DISTRICT

**TABLE 1-R CONNECTICUT RIVER BASIN, VT, NH, MA AND CT
(See Section 35 of Text)
DAMS AND RESERVOIRS**

Name	Nearest City	Miles Above Mouth of Connecticut River	Height (feet)	Type	Reservoir Capacity (acre-feet)	<u>Estimated Federal Cost</u>		
						Construction	Lands and Damages ¹	Total
Vermont:								
Union Village ²	White River Jct.	228.4	170	Earth fill	38,000	\$ 3,186,860	\$ 908,300	\$ 4,095,160
North Hartland ²	White River Jct.	211.7	185	Earth fill	71,400	6,349,225	963,000	7,312,225
North Springfield ²	Springfield	191.3	120	Earth fill	50,600	4,781,526	2,050,000	6,831,526
Ball Mountain ²	Brattleboro	178.2	265	Rock and earth fill	54,600	10,757,842	350,000	11,107,842
Townshend ²	Brattleboro	168.3	133	Earth fill	33,200	6,662,545	1,878,000	8,540,545
New Hampshire:								
Surry Mountain ²	Keene	174.4	86	Earth fill	32,500	2,448,610	385,000	2,833,610
Otter Brook ²	Keene	171.2	133	Earth fill	18,300	2,982,048	1,378,400	4,360,448
Massachusetts:								
Birch Hill ²	Gardner	153.3	56	Earth fill	49,900	1,740,679	3,075,000	4,815,679
Tully ²	Athol	148.7	62	Earth fill	22,000	1,298,752	368,000	1,666,752
Barre Falls ²	Worcester	130.2	62	Rock and earth fill	24,000	1,928,819	39,000	1,967,819
Knightville ²	Northampton	102.8	160	Earth fill	49,000	2,594,440	821,200	3,415,640
Littleville ²	Northampton	102.0	150	Earth fill	32,400	5,863,412	1,150,000	7,013,412
Conant Brook ²	Springfield	122.0	85	Rock and earth fill	3,740	1,935,530	1,015,000	2,950,530
Connecticut:								
Colebrook River ²	Winsted	116.0	223	Rock and earth fill	98,500	8,341,971	5,922,000	14,263,971
Mad River	Winsted	120.0	178	Earth fill	9,700	4,773,020	2,210,000 ⁴	6,983,020
Sucker Brook	Winsted	118.5	68	Earth fill	1,480	2,227,792	180,000 ³	2,407,792

¹ Includes highway, railroad, and utility relocations.

² For details, see individual report.

³ Non-Federal cost.

⁴ Non-Federal \$670,000; Federal \$1,540,000.

LOCAL PROTECTION PROJECTS

Location	Miles Above Mouth of Connecticut River	Type of Structure	<u>Estimated Cost</u>		
			Construction	Lands and Damages ¹	Total
Beaver Brook, Keene, NH	170.4	Channel improvement	\$ 2,591,000	-	\$ 2,591,000
Charlestown, NH	181	Riverbank protection	113,330	-	113,330
Chicopee, MA	80	Wall and levee	1,434,000	\$ 250,000	1,684,000
Chicopee Falls, MA	83	Wall and levee	2,600,000	70,000	2,670,000

**TABLE 1-R CONNECTICUT RIVER BASIN, VT, NH, MA AND CT
(Continued)
(See Section 35 of Text)
DAMS AND RESERVOIRS**

LOCAL PROTECTION PROJECTS					
Location	Miles Above Mouth of Connecticut River	Type of Structure	Construction	Estimated Cost	
				Lands and Damages ¹	Total
Connecticut River, Middletown, CT	31	Stream bank protection	\$ 331,167 ⁶	-	\$ 331,167
East Hartford, CT	52	Wall and levee	2,143,084	271,000	2,414,084
Farmington River, Simsbury, CT	60	Stream bank protection	757,720	10,195	767,915
Folly Brook, Wethersfield, CT	50	Channel improvement	220,284	-	220,284
Gardner, MA	163	Dam and levee	510,691	35,000	545,691
Gulf Street, Milford, CT	-	Slope protection	386,000	-	386,000
Hartford, CT	52	Wall and levee	9,710,200 ⁴	1,150,000	10,860,200
Hartford, White River, VT	216	Channel improvement	332,236	-	332,236
Holyoke, MA	85	Wall and levee	3,442,447	150,000	3,592,447
Huntington, MA	100	Riverbank protection	3,900	-	3,900
Israel R., Lancaster, NH	314	Gabion overflow weir	551,606	-	551,606
Keene, NH	167	Channel improvement	44,146	-	44,146
Mill Brook, Brownsville, VT	200	Stream bank stabilization	110,000	-	110,000
Northampton, MA	94	Wall and levee	960,000 ⁵	150,000	1,110,000
North Stratford, NH	345	Slope protection	180,000	-	180,000
Park River, CT	51	Conduit	58,876,919	1,300,000	60,176,919
Riverdale, MA	80	Wall and levee	2,126,875 ⁷	109,140	2,236,015
Partridge Brook, Westmoreland, NH	160	Slope protection	983,845	-	983,845
Salmon R., Haddam & E. Haddam, CT	18	Ice Control Structure	2,242,003 ⁸	20,000	2,262,003
Salmon R., Colchester, CT	38	Slope protection	247,100	-	247,100
South River, Conway, MA	107	Slope protection	133,500	-	133,500
Springdale, MA	84	Wall and levee	700,000	57,000	757,000
Springfield, MA	76	Wall and levee	937,350 ²	272,000	1,209,350
Three Rivers, MA	98	Wall and levee	1,577,189	700,000	2,277,189
Ware, MA	110	Channel improvement	400,000	85,000	485,000
Weston, VT	195	Channel improvement	13,079	2,000	15,079
West Springfield, MA	76	Wall and levee	2,043,452 ³	30,000	2,073,452
West Warren, MA	111	Wall and levee	430,176	64,000	494,176
Winsted, CT	115	Channel improvement	245,500	30,000	275,500

¹ To be borne by local interests. Also includes local interest's portion of relocation.

² Includes \$355,000 Public Works Administration funds.

³ Includes \$245,000 Public Works Administration funds.

⁴ Includes \$835,000 Public Works Administration funds.

⁵ Includes \$280,000 Public Works Administration funds.

⁶ Excludes \$24,134 Contributed Funds, Other.

⁷ Excludes \$46,929 Contributed Funds, Other.

⁸ Excludes \$154,116 Contributed Funds, Other.

NEW ENGLAND DISTRICT

TABLE 1-S **HOUSATONIC RIVER BASIN, CT AND MA**
(See Section 38 of Text)
DAMS AND RESERVOIRS

Name	Nearest City	Miles Above Mouth of Naugatuck River	Height (feet)	Type	Reservoir Capacity (acre-feet)	Estimated Federal Cost		
						Construction	Lands and Damages ¹	Total
Hall Meadow	Torrington, CT	41.0	73	Rock and earth fill	8,620	\$ 2,572,357	\$ 1,290,000 ³	\$ 3,862,357
East Branch	Torrington, CT	43.7	92	Earth fill	4,350	1,959,836	1,290,000 ³	3,249,836
Thomaston ²	Torrington, CT	30.5	142	Rock and earth fill	42,000	6,382,112	7,900,000	14,282,112
Northfield Brook ²	Torrington, CT	30.6	118	Earth fill	2,432	1,875,512	975,000	2,850,512
Black Rock ²	Waterbury, CT	29.0	154	Earth fill	8,700	5,223,700	2,958,600	8,182,300
Hancock Brook ²	Waterbury, CT	25.0	57	Earth fill	4,030	1,593,911	2,585,000	4,178,911
Hop Brook ²	Waterbury, CT	15.9	97	Earth fill	6,970	2,701,562	3,450,000	6,151,562

¹ Includes highway, railroad, and utility relocations.

² For details of projects, see individual reports.

³ Includes costs of lands borne by local interests.

LOCAL PROTECTION PROJECTS

Location	Miles Above Mouth of Housatonic River	Type of Structure	Estimated Cost		
			Construction	Lands and Damages ¹	Total
Alford, Green River, MA	111.0	Earth dike and stone slope protection	\$ 41,419	-	\$ 41,419
Ansonia-Derby, CT	13.0	Wall, levee, channel improve- ment and pumping station	18,266,040	1,178,000	19,444,040
Covered Bridge, Sheffield, MA	96.0	Stone slope protection	430,000	-	430,000
Danbury, CT	56.0	Walls, channel improvement and bridge replacement	13,143,000	1,862,000	15,005,000
Derby, CT	12.0	Walls, levees and pumping Station	7,582,642	647,000	8,229,642
Hoosic River, Williamstown, MA	155.0	Stone slope protection	456,322	12,179	468,501
Mad River, Waterbury (Woodtick Area), CT	35.0	Channel improvements	1,448,087	122,452	1,570,539
North Canaan, Blackberry River, CT	83.0	Snagging and clearing project	73,865	-	73,865
Pittsfield, MA	133.0	Stone arch culvert	739,003	85,000	824,003
Salisbury, CT	76.0	Gabionade with slope protection	102,800	-	102,800
Sheffield, MA	96.0	Stone slope protection	202,608	-	202,608
Squantz Pond, New Fairfield, CT	43.0	Timber Bulkhead	116,296	-	116,296
Torrington, East Branch, CT	51.0	Dike and channel improvement	389,237	-	389,237
Torrington, West Branch, CT	52.0	Walls, dikes and channel	228,237	-	228,237
Waterbury- Watertown, CT	32.0	Wall, dike and channel	263,300	-	263,300

¹ To be borne by local interests and includes relocations.

**TABLE 1-T MERRIMACK RIVER BASIN, NH, AND MA
(See Section 39 of Text)
RESERVOIRS**

Name	Nearest City	Miles Above Mouth of Merrimack River	(feet)	Height Type	Reservoir Capacity (acre-feet)	Estimated Federal Cost		
						Construction	Lands and Damages ¹	Total
Franklin Falls ²	Franklin, NH	118.2	140	Earth fill	154,000	\$ 6,190,487	\$ 1,760,000	\$ 7,950,487
Blackwater ²	Concord, NH	118.8	75	Earth fill	46,000	766,746	553,000	1,319,746
Hopkinton- Everett ²	Concord, NH	87.3	115	Earth fill	157,300	12,715,440	8,737,000	21,452,440
Edward MacDowell ²	Keene, NH	161.3	67	Earth fill	12,800	1,708,253	306,000	2,014,253

¹ Includes highway, railroad, and utility relocations.

² For details, see individual report.

LOCAL PROTECTION PROJECTS

Location	Miles Above Mouth of Merrimack River	Type of Structure	Estimated Cost		
			Construction	Lands and Damages ¹	Total
Amesbury, Powwow and Merrimack Rivers, MA	3.0	Wall and revetment	\$ 132,113	\$ -	\$ 132,113
Haverhill, MA	21.0	Floodwall, conduit and pumping station	1,863,485	-	1,863,485
Lowell, MA	39.0	Wall and levee	490,600 ²	90,000	580,600
Nashua, NH	55.0	Wall and levee	270,000	3,000	273,000 ³
North Nashua River, Lancaster, MA	90.0	Stone slope protection	81,671	-	81,671
North Nashua River, Lancaster (Route 70), MA	90.0	Stone slope protection	368,848	-	368,848
North Nashua River, Leominster, MA	94.0	Stone slope protection	203,675	-	203,675
North Nashua River, Leominster (Sewer Line), MA	94.0	Stone slope protection	295,273	-	295,273
North Nashua River, MA	100.5	Channel improvement	3,235,000 ⁴	-	3,235,000
Saxonville, MA	69.0	Wall, levee, channel	4,218,700	530,000	4,748,700

¹ To be borne by local interests.

² Excludes \$794,374 Public Works Administration Funds.

³ Excludes \$15,000 expended from Contributed Funds.

⁴ Excludes \$1,370,000 Public Works Administration Funds expended on Fitchburg, MA.

NEW ENGLAND DISTRICT

**TABLE 1-U THAMES RIVER BASIN, CT, RI AND MA
(See Section 43 of Text)
RESERVOIRS**

Name	Nearest City	Miles Above Mouth of Thames River	Height (feet)	Type	Reservoir Capacity (acre-feet)	Estimated Federal Cost		
						Construction	Lands and Damages ¹	Total
Hodges Village ²	Webster, MA	74.5	55	Earth fill	13,000	\$ 1,317,268	\$ 3,144,000	\$ 4,461,268
Buffumville ²	Webster, MA	74.4	66	Earth fill	12,700	2,157,603	841,000	2,998,603
East Brimfield ²	Southbridge, MA	82.8	55	Earth fill	30,000	1,337,043	5,720,000	7,057,043
Westville ²	Southbridge, MA	75.2	80	Earth fill	11,000	2,284,683	3,400,000	5,684,683
West Thompson ²	Putman, CT	59.3	70	Earth fill	25,600	5,036,220	1,965,000	7,001,220
Mansfield Hollow ²	Willimantic, CT	40.0	70	Earth fill	52,000	4,107,164	2,340,000	6,447,164

¹ Includes highway, railroad, and utility relocations.

² For details, see individual report.

LOCAL PROTECTION PROJECTS

Location	Miles Above Mouth of Thames River	Type of Structure	Estimated Cost		
			Construction	Lands and Damages ¹	Total
Norwich, CT	15.0	Channel improvements	\$ 1,209,000	\$ 72,000	\$ 1,281,000
West River, New Haven, CT	-	Channel improvements	4,619,543 ²	554,638	5,174,181

¹ Borne by local interests.

² Excludes \$12,590 for revisions to flood insurance rate map and \$71,650 Contributed funds not required.

TABLE 1-V RECONNAISSANCE AND CONDITION SURVEYS

Project	Date Survey Conducted	Project	Date Survey Conducted
MASSACHUSETTS		Mianus Harbor	Jul-Aug 2009
Andrews River,	Feb/Apr-Jun/Aug 2009	Milford Harbor	Nov 08/Jan-May 2009
Annisquam River	Oct-Dec 08/Jan-Jun/Aug 2009	Mystic River	Feb/Sep 2009
Aunt Lydia's Cove	Oct-Dec 08/Feb/Aug 2009	New Haven Harbor	Oct/Dec 08/Apr 2009
Beverly Harbor	Feb 2009	North Cove	Jun-Jul 2009
Boston Harbor	Oct-Dec 08/Jan-May/Sep 2009	Norwalk Harbor	Jan-Feb/Aug 2009
Buttermilk Bay	Sep 2009	Patchogue River	Dec 08/Jan-Apr/Jul 2009
Cape Cod Canal	Oct-Nov 08/Apr-May/Sep 2009	Stamford Harbor	Oct 08/Feb-Mar 2009
Chatham (Stage) Harbor	Oct-Nov 08/May-Jun/Sep 2009	Stony Creek	Apr/Jul 2009
Cross Rip Shoals Nantucket Sound	Feb 2009	Thames River	Feb-Apr/Sep 2009
Dorchester Bay & Neponset River	Dec 08/Feb/May-Jun/Sep 2009	Wilson Point Harbor	Jul 2009
Duxbury Harbor	Apr/Jul 2009	MAINE	
Edgartown Harbor	Jan-Feb/Apr/Aug-Sep 2009	Bagaduce River	Nov 2008
Essex River	Sep 2009	Bass Harbor	Jun-Sep 2009
Falmouth Harbor	Nov-Dec 08/Apr 2009	Bucks Harbor	Jun-Jul/Sep 2009
Green Harbor	Dec 08/Feb 2009	Cape Porpoise Harbor	Sep 2009
Hyannis Harbor	Oct-Dec 08/Feb-Apr 2009	Corea Harbor	Aug-Sep 2009
Ipswich Harbor	Jan-May/Sep 2009	Georges River	Apr 2009
Island End	Jun 2009	Kennebec River	Nov-Dec 08/Jul/Aug-Sep 2009
Kingston Harbor	Sep 2009	Kennebunk River	Sep 2009
Lagoon Pond	Jan-Feb 2009	Narraguagus River	Apr 2009
Little Harbor Woods Hole	Aug-Sep 2009	Northeast Harbor	Dec 2008
Lynn Harbor	Feb 2009	Owls Head Harbor	Nov 2008
Malden River	Jun 2009	Penobscot River	Oct/Dec 08/Feb/Aug-Sep 2009
Menemsha Creek (Martha's Vineyard)	Jan-Apr 2009	Pepperell Cove	Jan/Aug 2009
Mystic River	Apr-May/Aug-Sep 2009	Portland Harbor	Oct/Dec 2008
New Bedford & Fairhaven Harbor	Jan-Feb/Apr/Aug-Sep 2009	Royal Harbor	Dec 08/Jan/May 2009
Oak Bluffs (Martha's Vineyard)	Jan-Feb 2009	Saco River	Dec 08/Jan/Apr-Jun 2009
Plymouth Harbor	Mar-Apr 2009	Scarborough River	Apr 2009
Rockport Harbor	Jul 2009	Stonington Harbor	Dec 2008
Salisbury River	Feb/Aug 2009	Union River	Oct-Dec 08/Sep 2009
Scituate Harbor	Aug-Sep 2009	Wells Harbor	Apr 2009
Sesuit Harbor	Oct-Nov 08/Jan/May-Jun/Aug-Sep 2009	NEW HAMPSHIRE	
Vineyard Haven	Nov 08/Jan/Apr-Jun 2009	Bellamy River	Apr 2009
Wareham Harbor	Feb-May 2009	Cocheco River	Dec 08/Jan/Apr 2009
Westport River	Jun-Aug 2009	Exeter River	Nov 08/Jan/Apr/Jul-Sep 2009
Weymouth Fore River & Town River	Mar-Jun/Sep 2009	Hampton Harbor	Jul-Sep 2009
Woods Hole Channel	Nov-Dec 08/Sep 2009	Little Harbor	Oct 08/Feb 2009
CONNECTICUT		Portsmouth Harbor and Piscataqua River	Oct 07/Jan/Apr/Jul-Sep 2008
Branford Harbor	May 2009	Rye Harbor	Feb 2009
Bridgeport Harbor	Nov-Dec 08/Jan-Mar/May-Jul 2009	Sagamore Creek	Apr/Aug 2009
Clinton Harbor	Jan/Apr 2009		
Connecticut River Below Hartford	Jan/Jul-Aug 2009		
Eightmile River	Dec 08/Jan-Feb/Aug 2009		
Greenwich Harbor	Oct-Nov 08/Jul 2009		
Guilford Harbor	Feb 2009		
Housatonic River	Feb 2009		

TABLE 1-V (Continued) RECONNAISSANCE AND CONDITION SURVEYS

Project	Date Survey Conducted	Project	Date Survey Conducted
RHODE ISLAND			
Block Island Harbor of Refuge	Nov-Dec 08/Jan-Mar/Jul-Aug 2009		
Bullocks Point Cove	Mar-Jun/Aug 2009		
Greenwich Bay	Jul 2009		
Great Salt Pond, Block Island	Nov-Dec 08/Mar/Jul-Aug 2009		
Little Narragansett Bay	Nov 08/Feb 2009		
Newport Harbor	Apr-May/Jul-Sep 2009		
Pawtuxet Cove	Jun/Aug 2009		
Point Judith Harbor of Refuge	Feb/Sep 2009		
Providence River & Harbor	Jun/Aug 2009		
Sakonnet River	Dec 2008		
Warwick Cove	Nov 08/Apr-Sep 2009		

TABLE 1-V (Continued) RECONNAISSANCE AND CONDITION SURVEYS

Dredged Material Management Program

Major activities for FY 2009 were (1) monitoring surveys in association with a capping demonstration project at the Massachusetts Bay disposal site; (2) performing surveys at the Rhode Island Sound, Central Long Island Sound and historic Brenton Reef disposal sites; (3) finalizing two site monitoring reports and distributing to the public and regional resource agencies; (4) maintenance, replacement, and repositioning of disposal site buoys; and (5) conducting a day-long public symposium with about 100 attendees. Total costs for the FY using regular funds were \$943,278. American Recovery and Reinvestment Act funds of \$1,018 were used to award a contract in September 2009 to conduct additional sediment sampling and testing. Work had not begun under this contract by FY end.

Innovative Treatment of Dredged Material from Long Island Sound

The purpose of this project is to conduct a demonstration effort of various innovative treatment processes for dredged material to determine if treated material will meet non-restricted uses as a beneficial material. A portion of the maintenance material that needs to be periodically removed from the channels and anchorages of Federal navigation projects is unsuitable for ocean disposal. Upland placement and construction of confined aquatic disposal cells are two of the methods used for disposal of unsuitable material, both of which are extremely costly. In addition, there will be limited availability of these methods in the future when current sites reach capacity. Innovative treatment may be possible so that the “treated dredged material” may be re-used in a beneficial manner, which would reduce disposal/placement costs. In FY 2009, costs of \$12,537 were incurred to continue work on Phase 1 Demonstration efforts. Dredge Material that had undergone innovative treatment was sampled and tested and found to have reduced chemical levels for most parameters. However, arsenic levels were still high enough that the material could only be used in a restrictive manner. A blending demonstration was developed and performed. Sampling and analysis results of the blending operation resulted in lower arsenic levels but caused an increase in PAH levels. Additional blending and testing of small batches was performed to identify a “recipe” utilizing sand, compost and dredged material that would correct the problems. Preliminary testing has proved successful. Work is underway to develop a scope of work for blending of the remaining material. Brookhaven National Laboratory have been assisting (under contract) on providing data and documentation.

Long Island Sound Regional Dredged Material Management Plan (DMMP)

A US Environmental Protection Agency (EPA) final rule making in June 2005, designated open-water disposal sites in central and western Long Island Sound. During FY 2009, costs of \$513,008 were incurred to continue preparation of a DMMP for Long Island Sound. Efforts included completion of the dredging needs survey and inventory of upland and beneficial use sites as well as possible de-watering sites. Work was initiated on environmental data updates, economic analysis, cultural site inventories and identification of Federal and State programs for beneficial use and possible site restrictions.