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Emergency Operations: Reservoirs

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The Baltimore District regulates 16 multipurpose reservoirs in the State of Maryland, Commonwealth of Pennsylvania and the State of New York.

- Almond Lake
- Alvin R. Bush Dam
- Arkport Dam
- Aylesworth Creek Lake
- Cowanesque Lake
- Curwensville Lake
- East Sidney Lake
- Foster Joseph Sayers Dam
- George B. Stevenson Dam
- Indian Rock Dam
- Jennings Randolph Lake
- Raystown Lake
- Savage River Dam
- Stillwater Lake
- Tioga-Hammond Lakes
- Whitney Point Lake

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Almond Lake, New York

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Background: Almond Lake is located near Hornell, New York, on Canacadea Creek, a tributary of the Canisteo River, which flows into the Chemung River, which in turn, flows into the Susquehanna. The dam forming the lake is an earthfill structure 1,260 feet long rising 90 feet above the streambed with a gated outlet conduit in the left abutment, and a concrete spillway in a natural saddle beyond the left abutment. The reservoir has a storage capacity of 14,800 acre-feet (4.8 billion gallons) at spillway crest and has an area of 490 acres when filled to that level. The project controls a drainage area of 56 square miles or 36 percent of the watershed of the Canisteo River upstream from Hornell. An additional portion of the watershed is controlled by Arkport Dam. The project forms part of the protection for Hornell, Canisteo, and Addison and reduces flood heights at other localities on the Canisteo and Chemung rivers.

Type of Project: Flood Damage Reduction, Recreation

Highest Pools of Record:

Date	Elevation	Capacity Used
23 June 1972	1,298.58 feet	93.8%



Current reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$131,247,000.

Recreation: Steuben County Department of Public Works in cooperation with the U.S. Army Corps of Engineers, maintains a lakeside recreation facility, Kanakadea Park, which includes boating, fishing, camping and picnicking. Park information can be found on Stueben County's [web site](#). Facilities are opened to the public Memorial Day to Labor Day.

Cost: The Federal cost of the project was \$5,760,211 and was completed in June 1949.

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Arkport Dam, New York

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Background: Arkport Dam is located near Hornell, New York, on the Canisteo River, a tributary of the Chemung River, which flows into the Susquehanna River. The dam is an earthfill structure, 1,200 feet long, rising 113 feet above the streambed, with a concrete spillway and an ungated outlet in the right abutment. This project is normally a dry dam; however, water is impounded after heavy rains. The reservoir created by the dam has a storage capacity of 7,900 acre-feet (2.6 billion gallons) at spillway crest and has an area of 190 acres when filled to that level. The project controls a drainage area of 31 square miles, 20 percent of the watershed of the Canisteo River upstream from Hornell. An additional portion of the watershed is controlled by Almond Lake. The project forms part of the protection for Hornell, Canisteo, and Addison, and reduces flood heights at other localities on the Canisteo and Chemung Rivers.

Type of Project: Flood Damage Reduction

Highest Pools of Record:

Date	Elevation	Capacity Used
23 June 1972	1,304.04 feet	100.0%



Current reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$47,129,000.

Cost: The Federal cost of the project was \$1,910,000 and was completed in March 1940.

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Aylesworth Creek Lake, Pennsylvania

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Background: Aylesworth Creek Lake is located in Archbald Borough, Pennsylvania, on Aylesworth Creek approximately one mile above its confluence with the Lackawanna River, and controls a drainage area of 6.2 square miles. The project was operationally complete in October 1970. The reservoir extends about 4,600 feet upstream and inundates 87 acres at spillway crest with an elevation of 1,150 feet above mean sea level. Flood control storage is 1,700 acre-feet, equivalent to 5.1 inches of runoff from the drainage area. The earth and rockfill dam has a maximum height above the streambed of 90 feet and a top length of 1,270 feet. An 80-foot-wide spillway, having a discharge capacity of 10,000 cubic feet per second, was cut in the south bank. The outlet conduit is uncontrolled and consists of a 490-foot-long, 36-inch-diameter vitrified clay pipe encased in reinforced concrete. An auxiliary dike was required on the north bank of Aylesworth Creek to prevent flow from the lake into the Mayfield Creek drainage basin during high lake elevations. The dike is 410 feet long and has a maximum height of 28 feet.



Type of Project: Flood Damage Reduction, Recreation

Highest Pools of Record:

Date	Elevation	Capacity Used
28 June 2006	1,141.70 feet	63.8%

Current reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$9,050,000.

Recreation: The Lackawanna County Department of Parks and Recreation is charged with the responsibility for the operation and maintenance of the recreational facilities known as Aylesworth Creek Park. Recreational activities include swimming, picnicking, and hiking. Park information can be found on Lackawanna County's [web site](#). Recreation attendance in FY 2006 was 52,074 visitor hours.

Cost: The Federal cost of the project was \$2,268,200 and was completed in August 1970.

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Background: Cowanesque Lake is located in Tioga County, Pennsylvania on the Cowanesque River approximately 2 miles upstream of the confluence with the Tioga River at Lawrenceville, Pennsylvania. The embankment is of earth and rockfill, 3,100 feet in length, rising 151 feet above the streambed, with a 400-foot long spillway in the right abutment. The outlet works consist of an excavated approach channel, a combined intake and gate structure, a 15-foot diameter horseshoe tunnel, and a concrete outlet structure with a stilling basin. A conservation lake is maintained at elevation 1080 NGVD having a surface area of 1090 acres, and a length of 4.2 miles.

Type of Project: Flood Damage Reduction, Water Quality, Recreation, Water Supply

Highest Pools of Record:

Date	Elevation	Capacity Used
2 April 1993	1,114.44 feet	92.0%



Current reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$223,050,000.

Water Supply Storage: Seventy-nine percent of the conservation storage space is allocated for water supply storage. The Susquehanna River Basin Commission (SRBC) makes annual payments for this storage based on initial construction costs, annual operation and maintenance (O&M) costs, and interest charges.

Recreation: The Corps operates and maintains three major recreation areas on Cowanesque Lake. The South Shore Day Use Area provides boat launching, picnicking, swimming, comfort stations, and concession facilities. The Lawrence Area Day Use provides picnic facilities and comfort stations. The Tompkins Campground provides 86 traditional sites, 16 hike-in sites, a 24 site group camp, a boat launch and a beach. Detailed information of the facilities can be found [here](#).

Cost: The cost of the original project construction (100% Federal), which was completed in July 1980, was \$106,030,000. Cost of the project modifications to provide water supply storage was \$54,314,000, of which the Federal share was \$1,110,000.

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East Sidney Lake, New York

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Background: East Sidney Lake is located on Ouleout Creek, about 5 miles above the confluence of the creek with the Susquehanna River near Unadilla, New York. The dam is a combined earthfill and concrete gravity type structure; 2,010 feet long, rising 146 feet from firm rock and 130 feet above the streambed, with a spillway and five gate-controlled outlets in the concrete section. The reservoir has a storage capacity of 33,550 acre-feet at spillway crest and has an area of 1,100 acres when filled to that level. The project controls a drainage area of 102 square miles, 5 percent of the watershed of the Susquehanna River upstream from Binghamton, New York, exclusive of the separately controlled Chenango River. The project forms part of the protection for Binghamton, and it reduces flood heights throughout the Susquehanna River basin.

Type of Project: Flood Damage Reduction, Recreation

Highest Pools of Record:

Date	Elevation	Capacity Used
30 June 2006	1,204.35 feet	100%



Current reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$224,937,000.

Recreation: Public facilities at the project are provided by the Town of Sidney in cooperation with the U.S. Army Corps of Engineers. The facilities are centered around the summer lake with 210 acres and 6 miles of shoreline. A bathing beach, picnic and camping areas and boat launching/docking facilities are available. Recreation attendance in 2006 was 28,237 visitor hours. The park was closed most of the summer due to damages incurred during the June 2006 Flood event.

Cost: The Federal cost of the project was \$6,049,504 and was completed in June 1950.

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Background: Stillwater Lake is located in Susquehanna County on the Lackawanna River four miles north and upstream from Forest City, Pennsylvania. The project was operationally complete in September 1960. The dam is an earthfill structure, 1,700 feet long and rises 75 feet above the streambed, with a spillway and gate controlled outlet. The reservoir has a storage capacity of 11,600 acre feet at spillway crest, and controls a drainage area of 36.8 square miles. The project reduces flood heights on the Lackawanna River, downstream of the dam and on the Susquehanna River, downstream from its confluence with the Lackawanna River. Additionally, the Pennsylvania-American Water Company (PAWC) utilizes Stillwater as a source of water supply for the Forest City Water Purification Plant on infrequent occasions. The intake facility is located immediately downstream of the reservoir on the Lackawanna River.

Type of Project: Flood Damage Reduction, Recreation

Highest Pools of Record:



Date	Elevation	Capacity Used
2 April 1993	1,617.85 feet	88.9%

Current reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$148,127,000

Recreation: The Pennsylvania Fish and Boat Commission has constructed a boat ramp, which permits boating with electric motors or no motors only. Fishing is now permitted from shore and in permitted boats.

Cost: The Federal cost of Stillwater Lake was \$5,725,700 and was completed in December 1960.

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Background: The Tioga-Hammond Lakes project consists primarily of two separate dams, one on Tioga River, and one on Crooked Creek. Both dams are located approximately two miles upstream of the confluence of the two streams. The lakes are joined by a gated connecting channel in a saddle of the ridge separating the two streams. An uncontrolled spillway in Hammond Dam serves both reservoirs. A gated outlet conduit is provided in the left abutment of Tioga Dam for the control of flows for both reservoirs. Tioga Dam is of earth and rockfill construction, 2,738 feet in length, and has a maximum height of 140 feet above the streambed. Hammond Dam is of earth and rockfill construction, 6,000 feet in length and has a maximum height of 122 feet above the streambed. Tioga Dam controls 280 square miles of drainage area in the Tioga River basin, while Hammond Dam controls 122 square miles of drainage area in the Crooked Creek basin. An additional feature of the project is the Mansfield local flood protection project which consists of channel improvements, levees, and pumping stations which provide protection to the borough of Mansfield during high water events.



Type of Project: Flood Damage Reduction, Recreation, Water Quality

Highest Hammonds Pools of Record:

Date	Elevation	Capacity Used
3 Aprl 1993	1,123.21 feet	75.9%

Highest Tioga Pools of Record:

Date	Elevation	Capacity Used
3 April 1993	1,123.21 feet	75.9%

Current Hammond reservoir conditions can be found [here](#).

Current Tioga reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$366,667,000.

Recreation: The Corps operates and maintains the Ives Run and Lambs Creek Recreation areas, as well as two overlooks. Recreation facilities include boat launches, picnic areas, hiking trails, a beach and a 185-site campground. See the **District's web page** for additional information. Recreation attendance for 2006 was 1,396,427 visitor hours.

Cost: The cost of the project was \$185,700,000 and was completed in March 1980.

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Whitney Point Lake, New York

Background: Whitney Point Lake is located near Whitney Point, New York, on the Otselic River, a tributary of the Tioughnioga River, which discharges into the Chenango River, which, in turn, discharges in the Susquehanna River at Binghamton, New York. The dam is an earthfill structure, 4,900 feet long, rising 95 feet above the streambed, with a concrete spillway and a gated outlet in the left abutment. The reservoir has a storage capacity of 86,440 acre-feet (28.2 billion gallons) at spillway crest and will extend about 12 miles upstream when filled to that level. The project controls a drainage area of 255 square miles, the entire watershed of the Otselic River, and 16 percent of the Chenango River watershed upstream from Binghamton. The project forms part of the protection for Binghamton and reduces flood heights on the lower Chenango River and throughout the Susquehanna River Valley downstream from Binghamton.

Type of Project: Flood Damage Reduction, Recreation

Highest Pools of Record:

Date	Elevation	Capacity Used
Unknown	Unknown	Unknown



Current reservoir conditions can be found [here](#).

Flood Damages Prevented: Flood damages prevented through FY 2010 are estimated at \$601,571,000.

Recreation: The Broome County Department of Parks and Recreation operates and maintains Dorchester Park. Facilities include a beach, boat launch, boat rentals, picnic areas and campground. Visit the [Broome County Department of Parks and Recreation web site](#) for more park details. New York Department of Environmental Conservation manages fish and wildlife on other project lands, including Upper Lisle. Recreation attendance in 2006 was 233,474 visitor hours.

Cost: The Federal cost of the project was \$5,421,539.

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