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# Berlin Lake

Berlin Center, OH



## Project Features

- Authorization: Flood Control Act of 28 June 1938 (P.L. 75-761).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- Dam was completed in March 1943 and serves a drainage area of 249 square miles.
- The dam is a partially controlled concrete gravity type dam with a center spillway flanked by rolled earth filled abutments.
- The dam is 96 ft. tall and 5,750 ft. long. With the maximum width at the base of 73 feet.
- The outlet works on the dam are three sluice gates and four controlled section tainter gates.
- There are 7 recreation areas at the project which include 135 picnic sites, 339 camping sites, 5 boat ramps and 7 playgrounds. Berlin Lake provides 3 trails for public use, offering a combined 7.8 miles of hiking opportunities.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 722 thousand visitors annually. This visitation results in \$32 million in visitor spending, \$23 million in sales, 271 jobs resulting in \$7.7 million in labor income to the local economy. This represents a sizable component of the economy in the local community.
- The project has prevented over \$5.2 billion in flood damages since its completion in 1943.
- Berlin Lake provides downstream communities with a clean and dependable water supply and has helped to alleviate pollution problems throughout the Mahoning River Valley. Additionally, Deer Creek Dam, which was built by the city of Alliance, OH, under agreement with the Dept. of the Army, provides a reservoir for domestic water supply to their community of approximately 22,000 residents.
- The Ohio Department of Natural Resources manages over 6,800 acres of project lands for public hunting and wildlife management purposes.
- Berlin Lake is one of the very few lakes in the area in which natural reproduction of the walleye fish population occurs. Fishermen also enjoy fishing for largemouth and smallmouth bass, muskie, crappie and bluegill.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$1,271	\$1,018	\$2,289	\$1,368	\$644	\$2,012	\$2,563	\$616	\$3,179
Recreation	\$664		\$664	\$705	\$600	\$1,305	\$713		\$713
Environmental Stewardship	\$138		\$138	\$32	\$37	\$69	\$81	\$96	\$177
Water Supply	\$8		\$8	\$8		\$8	\$8		\$8
<b>Total</b>	<b>\$2,081</b>	<b>\$1,018</b>	<b>\$3,099</b>	<b>\$2,113</b>	<b>\$1,281</b>	<b>\$3,394</b>	<b>\$3,365</b>	<b>\$712</b>	<b>\$4,077</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$40	\$25	Maintenance for Flood Risk Management
		\$15	Resolution of Encroachments
Recreation	\$1,825	\$50	ADA accessible restrooms and shower houses
		\$175	Hazardous tree removal
		\$600	Replace Mill Run Campground Sewage Ejector Stations - Package 2 of 3
		\$600	Replace Mill Run Campground Sewage Ejector Stations - Package 3 of 3
		\$200	Renovate dam day use area
		\$200	Sewer Line Repair

**Additional Information**

- Fee Lands: 6,941 acres
- Flowage Easement Lands: 1,117 acres

**Congressional Interests**

Senator - Sherrod Brown, D-OH  
 Senator - Robert Portman, R-OH  
 Representative - Tim Ryan, D-OH-13  
 Representative - Bill Johnson, R-OH-6



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# Conemaugh River Lake

Saltsburg, PA



## Project Features

- Authorization: Flood Control Acts of 1936 (P.L. 74-738) and 1938 (P.L. 75-761)
- Primary project purposes are flood damage reduction, fish and wildlife enhancement, recreation, and low water augmentation.
- Dam was completed in 1952 and serves a drainage area of 1,35 square miles.
- The dam is a concrete gravity type dam with a gated spillway comprising fourteen spillway crest gates and thirteen low level gated conduits extending through the dam.
- The dam is 137 ft. tall and 1,265 ft. long. With the maximum width at the base of 128 feet. The outlet works on the dam contain 13-5.67' X 10' sluice gates and 14-30' X 30' crest gates.
- There are 5 recreation areas at the project which include an information center, 17 picnic sites, 2 boat ramps and 3 playgrounds. There are also 12 trails offering a combined 20 trail miles.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 212 thousand visitors annually. This visitation results in \$4.4 million in visitor spending, \$2.8 million in sales, 46 jobs resulting in \$1.2 million in labor income to the local economy. This represents a sizable component of the economy in the local community.
- The project has prevented over \$7.4 billion in flood damages since 1952.
- Located at the tailwaters of the dam is a canoe launch utilized by those taking paddling trips downriver to Saltsburg and beyond.
- Adjacent to the Dam Recreation Area, runs the historical West Penn Trail and the Tunnel View Historic Site. The riverside trail includes a walk along the Main Line Canal that once connected Philadelphia to Pittsburgh (1834-1854).
- Up river from the dam, 6,756 acres of reservoir land is leased to the Pennsylvania Game Commission for use as public hunting ground.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$926	\$646	\$1,572	\$1,418	\$309	\$1,727	\$1,219	\$186	\$1,405
Recreation	\$20		\$20	\$82		\$82	\$87		\$87
Environmental Stewardship	\$112		\$112	\$42	\$36	\$78	\$124	\$58	\$182
<b>Total</b>	<b>\$1,058</b>	<b>\$646</b>	<b>\$1,704</b>	<b>\$1,542</b>	<b>\$345</b>	<b>\$1,887</b>	<b>\$1,430</b>	<b>\$244</b>	<b>\$1,674</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$66	\$50	Remove lead paint/recoat handrails and supports on dam bridge-Conemaugh
		\$16	Resolution of Encroachments
Recreation	\$175	\$155	Replace Water System with Public Water Supply
		\$20	Maintenance of Recreation Features

**Additional Information**

- Fee Lands: 7,635 acres
- Flowage Easement Lands: 519 acres

**Congressional Interests**

Senator: Bob Casey, Jr., D-PA,  
 Senator: Pat Toomey, R-PA  
 Representative: John Joyce, R-PA-13  
 Representative: Glenn Thompson, R-PA-15



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# Crooked Creek Lake

Ford City, PA



## Project Features

- Authorization: Flood Control Acts of 22 June 1936 (P.L. 74-738) and amended in 1938 (P.L. 75-761).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- Dam was completed in May 1951 and serves a drainage area of 277 square miles.
- The dam is a rolled earth fill, impervious core with an uncontrolled saddle spillway with concrete floor and sides.
- The dam is 143 ft. tall and 1,480 ft. long.
- The outlet works on the dam is a 15'-6" in diameter and 1,320' long. Discharge is through three vertical lift gates, and two gate valves.
- There are 7 recreation areas at the project which include 6 picnic sites, 45 camping sites, 1 boat ramp and 5 playgrounds. There are also 8 trails, with a combination of 148.5 miles of trail available for public use.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 203 thousand visitors annually. This visitation results in \$4.5 million in visitor spending, \$2.9 million in sales, 47 jobs resulting in \$1.3 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$2.4 billion in flood damages since its completion in 1940.
- The Outdoor Discovery Center at Crooked Creek Lake is operated by the Armstrong County for Community Learning. This facility is utilized by groups interested in the environment and also a place for groups to hold meetings.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$1,064	\$1,340	\$2,404	\$1,121	\$1,894	\$3,015	\$1,178	\$3,499	\$4,677
Recreation	\$385		\$385	\$408		\$408	\$377		\$377
Environmental Stewardship	\$166		\$166	\$115	\$31	\$146	\$43	\$29	\$72
<b>Total</b>	<b>\$1,615</b>	<b>\$1,340</b>	<b>\$2,955</b>	<b>\$1,644</b>	<b>\$1,925</b>	<b>\$3,569</b>	<b>\$1,598</b>	<b>\$3,528</b>	<b>\$5,126</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Recreation	\$407	\$120	Pave/Resurface Tunnelville Road
		\$30	Paving Independence Parking Area
		\$237	Replace Guide Railing and Posts throughout Main Day Use Areas
		\$20	Install Electrical Hook-ups in Campground

**Additional Information**

- Fee Lands: 2,561 acres
- Flowage Easement Lands: 100 acres

**Congressional Interests**

Senator Bob Casey, Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Glenn Thompson, R-PA-15



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# East Branch Clarion River Lake

Wilcox, PA



## Project Features

- Authorization: Flood Control Acts of 1938 (P.L. 75-761) and 1944 (P.L. 78-534).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in March 1952 and serves a drainage area of 72.4 square miles.
- The dam is a rolled earth fill, impervious core type dam with an uncontrolled, concrete side channel spillway, with ogee weir and dispersal bucket spillway.
- The dam is 184 ft. tall and 1,725 ft. long. With the maximum width at the base of 1,115 feet.
- The outlet works on the dam are two service gates and one sluice gate.
- There are 7 recreation areas at the project which include 41 camping sites, 1 picnic site, 1 boat ramp and 1 playground. There are also 3 trails offering a combined 1.5 miles of hiking trail.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 98 thousand visitors annually. This visitation results in \$2.5 million in visitor spending, \$1.6 million in sales, 25 jobs resulting in \$550 thousand in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$440 million in flood damages since its completion in 1952.
- East Branch Lake is surrounded by Elk State Park, Elk State Forest and PA State Game Lands to further enhance the idyllic setting of your visits.
- Natural and recreational resources at this project provide social, economic and environmental benefits. Project personnel conduct recreational programs that help strengthen family ties and friendships; provide opportunities for children to develop personal skills, social values, and self esteem; and increase water safety.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$878	\$4,883	\$5,761	\$1,002	\$1,488	\$2,490	\$1,113	\$302	\$1,415
Recreation	\$101	\$16	\$117	\$157		\$157	\$223		\$223
Environmental Stewardship	\$14		\$14	\$20	\$16	\$36	\$33	\$21	\$54
Water Supply			\$0			\$0			\$0
<b>Total</b>	<b>\$993</b>	<b>\$4,899</b>	<b>\$5,892</b>	<b>\$1,179</b>	<b>\$1,504</b>	<b>\$2,683</b>	<b>\$1,369</b>	<b>\$323</b>	<b>\$1,692</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Recreation	\$220	\$100	Replace Culvert
		\$100	Replace Guard Rail to Boat Launch
		\$20	Replace Playground Equipment

**Additional Information**

- Fee Lands: 287 acres
- Flowage Easement Lands: 2,357 acres

**Congressional Interests**

Senator Bob Casey, Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Glenn Thompson, R-PA-15



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# Kinzua Dam and Allegheny Reservoir

Warren, PA



## Project Features

- Authorization: Flood Control Acts of 1936 and 1938 (P.L. 75-761) and 1944 (P.L. 78-534).
- Primary project purposes are flood damage reduction, hydroelectric power, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1965 and serves a drainage area of 2,180 square miles.
- The dam is a concrete and earth embankment type dam with two hydroelectric penstocks which are operated by First Energy Corporation.
- The dam consists of a 179 ft. tall and 778.5 ft. long concrete section and 1,098.5 ft. long earth embankment. With the total maximum width at the base of 1,245 feet. The outlet works on the dam has eight sluices and two hydroelectric penstocks.
- There are 6 recreation areas at the project which include 70 camping sites, 10 picnic sites, 3 boat ramps and 2 playgrounds. There are also 4 trails offering a combined 3 miles of hiking trails.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 123 thousand visitors annually. This visitation results in \$3.1 million in visitor spending, \$2 million in sales, 29 jobs resulting in over \$730 thousand in labor income to the local economy, all within 30 miles of the project.
- The project has prevented over \$3.5 billion in flood damages since its completion in 1965.
- Kinzua Dam and Allegheny Reservoir is located in Warren and McKean Counties in PA, and Cattaraugus County and the Seneca Nation of Indians in NY.
- Totally surrounded by forest, Kinzua Dam and Allegheny Reservoir is at the heart of one of the largest and most popular outdoor recreation complexes in NE United States. Natural and recreational resources at this project provide social, economic and environmental benefits.
- Another benefit provided by Kinzua is hydroelectric power generation. Seneca Power Station, operated by First Energy Corp. provides 400,000 kilowatts/hour at peak. This services approximately 266,400 homes per year at full capacity.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$934	\$395	\$1,329	\$1,099	\$234	\$1,333	\$1,540	\$927	\$2,467
Recreation	\$158	\$9	\$167	\$184		\$184	\$220		\$220
Environmental Stewardship	\$55		\$55	\$40	\$51	\$91	\$50	\$31	\$81
<b>Total</b>	<b>\$1,147</b>	<b>\$404</b>	<b>\$1,551</b>	<b>\$1,323</b>	<b>\$285</b>	<b>\$1,608</b>	<b>\$1,810</b>	<b>\$958</b>	<b>\$2,768</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$366	\$341	In Depth Trunnion Anchorage Evaluation - Kinzua
		\$25	Maintenance for Flood Risk Management
Recreation	\$273	\$100	Construct New Access Road to Boat Ramp - Kinzua
		\$54	Construct New ADA-Accessible Parking Lot near Wildlife Viewing Area
		\$50	Maintenance of Recreation Features
		\$69	Rehab Fishing Platform

**Additional Information**

- Fee Lands: 4,836 acres
- Flowage Easement Lands: 10,310 acres

**Congressional Interests**

Senator Bob Casey, Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Senator Chuck Schumer, D-NY  
 Senator Kirsten Gillibrand, D-NY  
 Representative Tom Reed II, R-NY-23  
 Representative Glenn Thompson, R-PA-15



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# Loyalhanna Lake

Saltsburg, PA



## Project Features

- Authorization: Flood Control Acts of 1938 (P.L. 75-761) and 1944 (P.L. 78-534).
- Primary project purposes are flood damage reduction, hydroelectric power, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1951 and serves a drainage area of 290 square miles.
- The dam is a concrete gravity type with gate controlled center spillway and adjoining earth embankment on left bank.
- The dam is 114 ft. tall and total 960 ft. long. With the total maximum width at the base of 88 feet.
- The outlet works on the dam are four controlled sluices, one valve controlled sluice and five crest gates.
- There are 5 recreation areas at the project which include 45 camping sites, 4 picnic sites, 1 boat ramp and 2 playgrounds. There are also 2 trails offering a combined .8 miles of hiking trails.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 310 thousand visitors annually. This visitation results in \$6.4 million in visitor spending, \$4 million in sales, 66 jobs resulting in \$1.8 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$2.7 billion in flood damages since its completion in 1951.
- An important link in a system of flood control projects, Loyalhanna provides flood protection for the lower Loyalhanna Creek and Kiskiminetas River valleys and the lower Allegheny and upper Ohio Rivers.
- A unique feature at Loyalhanna is the opportunity to venture along the Black Willow Water Trail. This trail is a self-guided boating trail with designated stations marking many natural and man-made features.
- PA Game Commission leases 3,200 acres of project lands for wildlife management purposes and public hunting. Hunters will discover that the lake's surrounding area holds a variety of game, such as deer, rabbit and squirrel and many types of game birds. Several parking lots have also been developed to provide access to hunting areas.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$1,171	\$281	\$1,452	\$1,365	\$4,461	\$5,826	\$1,520	\$232	\$1,752
Recreation	\$25		\$25	\$174	\$7	\$181	\$163		\$163
Environmental Stewardship	\$53		\$53	\$88	\$35	\$123	\$75	\$32	\$107
<b>Total</b>	<b>\$1,249</b>	<b>\$281</b>	<b>\$1,530</b>	<b>\$1,627</b>	<b>\$4,503</b>	<b>\$6,130</b>	<b>\$1,758</b>	<b>\$264</b>	<b>\$2,022</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Recreation	\$165	\$30	Maintenance of Recreation Features
		\$95	Pave Bush Recreation Area Interior Roadways
		\$40	Repair Bush Recreation Area Boat Ramp - Loyalhanna

**Additional Information**

- Fee Lands: 3,634 acres
- Flowage Easement Lands: 87 acres

**Congressional Interests**

Senator Bob Casey, Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Guy Reschenthaler, R-PA-14



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# Mahoning Creek Lake

New Bethlehem, PA



## Project Features

- Authorization: Flood Control Acts of 1936 and 1938 (P.L. 75-761) and 1944 (P.L. 78-534).
- Primary project purposes are flood damage reduction, hydroelectric power, recreation, fish and wildlife enhancement, and low water augmentation.
- The concrete gravity dam with gate controlled center spillway was completed in 1941 and serves a drainage area of 340 square miles.
- The dam is 162 ft. tall and 926 ft. long concrete section and 1,098.5 ft. long. With the total maximum width at the base of 154 feet.
- The outlet works on the dam are one ball valve conduit, three sluice gates and one ring jet valve.
- There are 5 recreation areas at the project which include 53 outgranted camping sites, 4 picnic sites, 2 boat ramps and 4 playgrounds. There are also 7 trails offering a combined 3 miles of hiking trails.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 53 thousand visitors annually. This visitation results in \$1.4 million in visitor spending, \$860 thousand in sales, 14 jobs resulting in over \$347 thousand in labor income to the local economy, all within 30 miles of the project.
- The project has prevented over \$2.8 billion in flood damages since its completion in 1941.
- Mahoning Creek Lake serves as a key link in a system of flood control for the Allegheny and Upper Ohio Rivers.
- Armstrong County leases 28 acres from the Corps to operate the Milton Loop Campground.
- The PA Fish and Boat Commission leases the main body of the lake and its adjoining lands including the Milton Loop Boat Launch and Sportsman's Area.
- The PA Game Commission leases 1,280 acres of lake lands in Indianan County for wildlife management and public hunting.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$954	\$462	\$1,416	\$1,036	\$253	\$1,289	\$1,140	\$378	\$1,518
Recreation	\$20	\$5	\$25	\$79		\$79	\$76		\$76
Environmental Stewardship	\$11	\$5	\$16	\$37	\$30	\$67	\$70	\$27	\$97
<b>Total</b>	<b>\$985</b>	<b>\$472</b>	<b>\$1,457</b>	<b>\$1,152</b>	<b>\$283</b>	<b>\$1,435</b>	<b>\$1,286</b>	<b>\$405</b>	<b>\$1,691</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$9,025	\$25	Maintenance for Flood Risk Management
		\$9,000	Replace Service Bridge & Civil Site Development (Design-Build) - Mahoning
Recreation	\$235	\$10	Maintenance of Recreation Features
		\$225	Repave Roadways

**Additional Information**

- Fee Lands: 2,499 acres
- Flowage Easement Lands: 84 acres

**Congressional Interests**

Senator Bob Casey, Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Glenn Thompson, R-PA-15



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# Michael J. Kirwan Dam & Reservoir

Wayland, OH



## Project Features

- Authorization: Flood Control Act of 1958 (P.L. 85-500).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1965 and serves a drainage area of 80.5 square miles.
- This is a rolled earth filled embankment dam with a 83 ft. tall and 9,900 ft. long concrete section and a total maximum base width of 800 feet.
- The outlet works on the dam consist of three gates and three barrel conduits.
- There are 8 recreation areas at the project which include 198 outgranted camping sites, a group area with 80 camping sites, 2 group picnic areas with 7 picnic shelters and 10 individual picnic sites, 5 boat ramps and 2 playgrounds. There are also 7 trails offering a combined 3 miles of public hiking trails.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 330 thousand visitors annually. This visitation results in \$13.7 million in visitor spending, \$10 million in sales, 123 jobs resulting in over \$3.4 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$1.8 billion in flood damages since its completion in 1965.
- MJ Kirwan Reservoir provides flood damage reduction for the Mahoning River Valley and the Beaver and upper Ohio Rivers.
- The Ohio Department of Natural Resources leases USACE property for their West Branch State Park. Visitors to the park will find numerous, facilities available for fishing, hiking, picnicking, camping, boating. There are also several miles of mountain biking trails, snow mobile trails and cross-country skiing. There is also a horse camp with horse trails, these are available by permit only.
- West Branch State Park operates a 700-foot beach that provides a view of MJ Kirwan Dam.
- There is a commercial marina with 315 boat slips, boat rentals and gas pumps.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$970	\$372	\$1,342	\$1,012	\$359	\$1,371	\$1,278	\$259	\$1,537
Recreation	\$67	\$7	\$74	\$77		\$77	\$68		\$68
Environmental Stewardship	\$46	\$5	\$51	\$23	\$47	\$70	\$88	\$51	\$139
<b>Total</b>	<b>\$1,083</b>	<b>\$384</b>	<b>\$1,467</b>	<b>\$1,112</b>	<b>\$406</b>	<b>\$1,518</b>	<b>\$1,434</b>	<b>\$310</b>	<b>\$1,744</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$40	\$20	Create plan of wet area and slide locations - Michael J Kirwan
		\$20	Investigate Downstream Embankment - Michael J Kirwan
Recreation	\$220	\$15	Maintenance of Recreation Features
		\$50	Resurface Parking Lot at Kestrel Way
		\$15	Rehab Information Center
		\$90	Replace Guardrails on Kestrel Way Road
		\$50	Resurface Parking Lot at Information Center

**Additional Information**

- Fee Lands: 6,269 acres
- Flowage Easement Lands: 33 acres

**Congressional Interests**

Senator Sherrod Brown, D-OH  
 Senator Rob Portman, R-OH  
 Representative Tim Ryan, D-OH-13  
 Representative Anthony Gonzalez, R-OH-16



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# Mosquito Creek Lake

Cortland, OH



## Project Features

- Authorization: Flood Control Act of 1938 (P.L. 75-761).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1944 and serves a drainage area of 97 square miles.
- This is a rolled earth filled embankment dam. that is 47 ft. tall and 5,650 ft. long. With the total maximum width at the base of 430 feet.
- The outlet works on the dam consists of two conduits, four sluice gates and two gate valves.
- There are 8 recreation areas at the project which include 234 outgranted camping sites, one group camping area, one group picnic area, 10 individual picnic sites, 11 boat ramps, 14 courtesy docks and 4 playgrounds. There are 46 miles of hiking opportunities on 7 trails.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages over 846 thousand visitors annually. This visitation results in \$34 million in visitor spending, \$19.4 million in sales, 294 jobs resulting in \$8 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$1.2 billion in flood damages since its completion in 1965.
- A unique feature to Mosquito Creek Lake is its use of a natural spillway. If the lake rises to 904.18 feet above sea level, the flow will reverse direction. The excess water will travel through the Grand River tributary and proceed north into Lake Erie.
- The Ohio Department of Natural Resources leases USACE property for their Mosquito State Park and Wildlife Area. Visitors to the park will find numerous facilities available for fishing, hiking, picnicking, camping, and boating.
- The lake provides fishing, boating, swimming, and hiking in the summer and in the winter there is cross-country skiing, ice fishing, snowmobiling and winter hiking.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$914	\$657	\$1,571	\$881	\$334	\$1,215	\$1,260	\$241	\$1,501
Recreation	\$123	\$26	\$149	\$153	\$5	\$158	\$123		\$123
Environmental Stewardship	\$119	\$10	\$129	\$61	\$20	\$81	\$289	\$48	\$337
Water Supply	\$8		\$8	\$8		\$8	\$8		\$8
<b>Total</b>	<b>\$1,164</b>	<b>\$693</b>	<b>\$1,857</b>	<b>\$1,103</b>	<b>\$359</b>	<b>\$1,462</b>	<b>\$1,680</b>	<b>\$289</b>	<b>\$1,969</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$3,125	\$75	Clear Vegetation and Establish Drainage Channels
		\$3,050	Extend Rip Rap on dam face - Mosquito Creek Lake (IRRM work package)
Recreation	\$50	\$40	Tailwater Dam Site Restroom Roof Rehabilitation
		\$10	Replace Courtesy Dock at Route 305 Boat Launch Ramp

**Additional Information**

- Fee Lands: 11,191 acres
- Flowage Easement Lands: 306 acres
- Project Boundary Line Marked: 49 miles

**Congressional Interests**

Senator Sherrod Brown, D-OH  
 Senator Rob Portman R-OH  
 Representative Tim Ryan, D-OH-13  
 Representative David Joyce, R-OH-14



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# Shenango River Lake

Hermitage, PA



## Project Features

- Authorization: Flood Control Act of 1938 (P.L. 75-761).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1965 and serves a drainage area of 589 square miles in both OH and PA.
- This is a concrete gravity type dam. The dam is 67.7 ft. tall and 720 ft. long. With the total maximum width at the base of 66 feet. The outlet works on the dam are seven sluice gates.
- There are 9 recreation areas at the project and 1 campground with 330 camping sites. There are 35 individual picnic sites, ten of them are group picnic shelters, two of these are outgranted. 11 boat ramps; there is an outgranted marina with 195 wet slips with four courtesy docks. There are a total of nine playgrounds with one of them being outgranted. There are also five trails offering a combined 16 miles of public hiking opportunities.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 591 thousand visitors annually. This visitation results in \$17.3million in visitor spending, \$11 million in sales, 172 jobs resulting in \$4.3 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$448 million in flood damages since its completion in 1965.
- Visitors enjoy exploring the remnants of the Erie Extension Canal. Portions of the canal's towpath are maintained for hiking and are part of the Shenango Trail. Shenango also has an ATV trail.
- Shenango also has an 18-hole Disc Golf course that many enthusiasts enjoy.
- The Ohio Department of Wildlife manages 4,800 acres of land for wildlife management. PA game Commission manages 3,150 acres of lake and land for wildlife purposes, including a waterfowl propagation area.
- The lake provides fishing, boating, swimming, and hiking in the summer and in the winter there is cross-country skiing, ice fishing, snowmobiling and winter hiking.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$1,269	\$711	\$1,980	\$1,341	\$454	\$1,795	\$1,659	\$442	\$2,101
Recreation	\$942	\$10	\$952	\$972		\$972	\$864		\$864
Environmental Stewardship	\$149		\$149	\$47	\$54	\$101	\$111	\$96	\$207
<b>Total</b>	<b>\$2,360</b>	<b>\$721</b>	<b>\$3,081</b>	<b>\$2,360</b>	<b>\$508</b>	<b>\$2,868</b>	<b>\$2,634</b>	<b>\$538</b>	<b>\$3,172</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$25	\$25	Maintenance for Flood Risk Management
Recreation	\$487	\$30	Install Electrical Pedestals at 34 Campsites in the New Duck Loop
		\$270	Rehab Interior Piping in Elevated Water Tank in the Shenango Recreation Area
		\$50	Repair Sewage Treatment System at Chestnut Run Swim Beach
		\$12	Replace Electrical Control Panel Shenango Recreation Area WW Treatment Plant
		\$125	Repair and Stabilize Campground Shoreline

**Additional Information**

- Fee Lands: 14,420 acres
- Flowage Easement Lands: 508 acres

**Congressional Interests**

Senator Bob Casey, Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Mike Kelly, R-PA-16



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# Stonewall Jackson Lake

Weston, WV



## Project Features

- Authorization: Flood Control Act of 1966 (P.L. 89-789).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1990 and serves a drainage area of 101.8 square miles.
- This is a concrete gravity type dam with and uncontrolled center spillway. The dam is 95 ft. tall and 620 ft. long. With the total maximum width at the base of 113 feet. The outlet works on the dam are three flood control sluice gates and two water quality control structures.
- Cor facilities include an administration building with a visitor center and public restrooms, on outdoor plaza and walkways for viewing the dam, fishing access to the tailwater area, a hiking trail, and visitor parking areas.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 100 thousand visitors annually. This visitation results in \$3.2 million in visitor spending, \$1.8 million in sales, 30 jobs resulting in over \$787 thousand in labor income to the local economy, all within 30 miles of the project.
- The project has prevented over \$563 million in flood damages since its completion in 1990.
- Stonewall Jackson lake provides an ideal setting for pleasure and relaxation. Boating, fishing, hunting, hiking and camping are just a few of the many recreation opportunities available.
- WV DNR operates the Stonewall Jackson State Park Resort with 191 rooms, 11 cabins and a campground with 45 sites.
- The lake provides fishing, boating, swimming, and hiking in the summer and in the winter there is cross-country skiing, ice fishing, and winter hiking.
- Stonewall State Park Resort also includes a Arnold Palmer signature 18-hole championship golf course available to the public.

U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$968	\$232	\$1,200	\$1,115	\$234	\$1,349	\$1,204	\$332	\$1,536
Recreation	\$13		\$13	\$77		\$77	\$75		\$75
Environmental Stewardship	\$278	\$6	\$284	\$22	\$39	\$61	\$86	\$36	\$122
Water Supply	\$8		\$8	\$8		\$8	\$8		\$8
<b>Total</b>	<b>\$1,267</b>	<b>\$238</b>	<b>\$1,505</b>	<b>\$1,222</b>	<b>\$273</b>	<b>\$1,495</b>	<b>\$1,373</b>	<b>\$368</b>	<b>\$1,741</b>

**Additional Information**

- Fee Lands: 20,451 acres
- Flowage Easement Lands: 707 acres

**Congressional Interests**

Senator Joe Manchin III, D-WV  
 Senator Shelley Moore Capito, R-WV  
 Representative Alex Mooney, R-WV-2



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# Tionesta Lake

Tionesta, PA



## Project Features

- Authorization: Flood Control Acts of 1936 (P.L. 74-738) and 1938 (P.L. 75-761).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1940 and serves a drainage area of 478 square miles.
- This is a compact earth-filled and rock-fill type dam. The dam is 154 ft. tall and 1050 ft. long. With the total maximum width at the base of 1080 feet. The outlet works on the dam are three vertical lift gates, two gate valves and a concrete lined tunnel.
- There are nine recreation areas at Tionesta, one is operated by the PA Fish & Boat Commission and the other by the Borough of Tionesta. Corps facilities include an administration building with a visitor center and public restrooms, walkways for viewing the dam, fishing and boating access areas, a hiking trail, and visitor parking areas. Tionesta operates three campgrounds with a total of 197 sites, including a group camp site. One of the camping areas is boat in only.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 176 thousand visitors annually. This visitation results in \$3.3 million in visitor spending, \$2.2 million in sales, 34 jobs resulting in \$802 thousand in labor income to the local economy, all within 30 miles of the project.
- The project has prevented over \$2.8 billion in flood damages since its completion in 1940.
- Tionesta Lake provides an ideal setting for pleasure and relaxation. Boating, fishing, hunting, hiking and camping are just a few of the many recreation opportunities available.
- PA Fish and Boat Commission operates the Nebraska Access Area with a boat ramp and PA Game Commission operates State Game Lands at Tionesta. The Allegheny National Forest also surrounds Tionesta Lake and Tionesta Creek.
- The lake provides fishing, boating, swimming, and hiking in the summer and in the winter there is cross-country skiing, ice fishing, and winter hiking.
- Tionesta's flood control capabilities were dramatically demonstrated during the 1972 Tropical Storm Agnes when more than \$62 million in damages were prevented by the dam alone.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$1,497	\$643	\$2,140	\$1,460	\$4,831	\$6,291	\$1,550	\$3,338	\$4,888
Recreation	\$484		\$484	\$620		\$620	\$577		\$577
Environmental Stewardship	\$75		\$75	\$51	\$33	\$84	\$86	\$80	\$166
<b>Total</b>	<b>\$2,056</b>	<b>\$643</b>	<b>\$2,699</b>	<b>\$2,131</b>	<b>\$4,864</b>	<b>\$6,995</b>	<b>\$2,213</b>	<b>\$3,418</b>	<b>\$5,631</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$110	\$25	Install Fencing Around Potable Water Wells
		\$85	Replace Dam Access Road Guide Rail
Recreation	\$423	\$40	Construct Multipurpose Pavilion at Damsite
		\$35	Maintenance of Recreation Features
		\$25	Playground Unit at Tionesta Recreation Area Campground
		\$323	Rehab interior Piping and Repaint Elevated Water Tank

**Additional Information**

- Fee Lands: 3,144 acres
- Flowage Easement Lands: 13 acres
- Project Boundary Line Marked: 35 miles

**Congressional Interests**

- Senator Bob Casey, Jr., D-PA
- Senator Pat Toomey, R- PA
- Representative Glenn Thompson, R-PA-15



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# Tygart Lake

Grafton, WV



## Project Features

- Authorization: Rivers and Harbors Act of 1935 (P.L. 74-409).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1938 and serves a drainage area of 1,184 square miles.
- This type of dam is a concrete gravity with an uncontrolled spillway. The dam is 230 ft. tall and 1921 ft. long. With the total maximum width at the base of 207 feet. The outlet works on the dam are eight controlled sluice gates and two ring jet valve controlled sluices.
- Today use area at Tygart Dam features an overlook of the dam, a visitor center, picnic sites with grills and a reserveable pavilion. Park Rangers provide weekly dam tours during the summer and scheduled group tours year round.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 288 thousand visitors annually. This visitation results in \$12.4 million in visitor spending, \$6.5 million in sales, 103 jobs resulting in over \$2.7 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$5.5 billion in flood damages since its completion in 1938.
- Tygart Lake provides an ideal setting for pleasure and relaxation. Boating, fishing, hunting, hiking and camping are just a few of the many recreation opportunities available.
- The Corps leases areas of Tygart Lake to the West Virginia Division of Natural Resources as part of Tygart Lake State Park and Pleasant Creek Wildlife Management Area. Those seeking overnight accommodations have a choice between lodge or cabin facilities available at Tygart Lake State Park. For those desiring a more rustic experience campgrounds are available at both the State Park and the Pleasant Creek Wildlife Management Area.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$1,191	\$418	\$1,609	\$1,444	\$394	\$1,838	\$1,316	\$213	\$1,529
Recreation	\$10		\$10	\$80		\$80	\$67		\$67
Environmental Stewardship	\$60	\$6	\$66	\$28	\$27	\$55	\$86	\$33	\$119
Water Supply	\$8		\$8	\$8		\$8	\$8		\$8
<b>Total</b>	<b>\$1,269</b>	<b>\$424</b>	<b>\$1,693</b>	<b>\$1,560</b>	<b>\$421</b>	<b>\$1,981</b>	<b>\$1,477</b>	<b>\$246</b>	<b>\$1,723</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$25	\$25	Maintenance for Flood Risk Management
Recreation	\$161	\$120	Rehab Overlook Area
		\$41	Maintenance of Recreation Features

**Additional Information**

- Fee Lands: 2,701 acres
- Flowage Easement Lands: 1,034 acres

**Congressional Interests**

- Senator: Joe Manchin III, D-WV
- Senator: Shelley Moore Capito, R-WV
- Representative David McKinley, R-WV-01



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# Union City Dam

Waterford, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1962 (P.L. 87-4).
- Primary project purposes are flood damage reduction, recreation, fish and wildlife enhancement.
- The dam was completed in 1971 and serves a drainage area of 222 square miles.
- This dam is a rolled earth embankment type with an uncontrolled side-channel spillway at the right abutment of the dam. The dam is 88 ft. tall and 1430 ft. long. With the total maximum width at the base of 560 feet. The outlet works on the dam is an uncontrolled concrete conduit at the base of the dam.
- Today use area at Union City Dam features picnic sites with grills, access to walk and/or drive across the dam, and fishing below the dam.
- The dam functions as an uncontrolled detention structure that automatically stores and releases water during periods of peak flow. The conduit permits normal flows of French Creek to pass through unimpeded.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 21 thousand visitors annually. This visitation results in \$354 thousand in visitor spending, \$210 thousand in sales, 4 jobs resulting in over \$87 thousand in labor income to the local economy, all within 30 miles of the project.
- The project has prevented over \$235 million in flood damages since its completion in 1971.
- Union City Dam provides visitors with the chance to enjoy a number outdoor recreational opportunities. The different types of habitat and ecosystems that can be found at the reservoir provide hikers, bird watchers and naturalists with a variety of flora and fauna to discover and enjoy.
- Fisherman are drawn to the project to test their skills against northern pike, walleye and muskie. There is also an abundance of smallmouth bass and panfish in the creek and trout in the many feeder streams.
- Hunting is also a popular activity at Union City Dam. Deer, turkey, small game, and waterfowl are plentiful and provide hunters with exciting opportunities and experiences.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$474	\$116	\$590	\$396	\$97	\$493	\$433	\$78	\$511
Recreation	\$17		\$17	\$40		\$40	\$34		\$34
Environmental Stewardship	\$5		\$5	\$5	\$8	\$13	\$155	\$25	\$180
<b>Total</b>	<b>\$496</b>	<b>\$116</b>	<b>\$612</b>	<b>\$441</b>	<b>\$105</b>	<b>\$546</b>	<b>\$622</b>	<b>\$103</b>	<b>\$725</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Recreation	\$10	\$10	Maintenance of Recreation Features

**Additional Information**

- Fee Lands: 161 acres
- Flowage Easement Lands: 2,410 acres

**Congressional Interests**

Senator Bob Casey, Jr. D-PA  
 Senator Pat Toomey, R-PA  
 Representative Mike Kelly R-PA-16



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# Woodcock Creek Lake

Saegertown, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1962 (P.L. 87-4).
- Primary project purposes are flood damage reduction, recreation.
- The dam was completed in 1973 and serves a drainage area of 45.7 square miles.
- This dam is a rolled earth embankment type with an impervious core and an uncontrolled saddle type with sidehill spillway. The dam is 90 ft. tall and 4650 ft. long. The outlet works on the dam is an arched concrete conduit. The discharge is regulated with two slide gates and two multi-level outlets for water quality control.
- There are 7 recreation areas at Woodcock Creek Lake. The combination of these recreation areas and sites are managed by both the Corps and Crawford County. There are 6 hiking trails with 7 miles of trails. The walk across the top of the dam and the parking lot equals one mile, this makes this walk convenient and popular among walkers and runners. There are 16 picnic sites, an interpretive center, and a disc golf course.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 243 thousand visitors annually. This visitation results in \$4.4 million in visitor spending, \$2.9 million in sales, 46 jobs resulting in \$1.1 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$74 million in flood damages since its completion in 1973.
- Woodcock Creek Lake provides visitors with the chance to enjoy a number outdoor recreational opportunities. The different types of habitat and ecosystems that can be found at the reservoir provide hikers, bird watchers and naturalists with a variety of flora and fauna to discover and enjoy.
- Many exceptional facilities are provided by the US Army Corps of Engineers, Crawford County and the Crawford County Conservation District. A spacious campground, developed swim beach, picnic areas, and a six lane boat launch are located in the Colonel Crawford Park Area.
- Hunting and fishing are popular activities at Woodcock Creek Lake. PA Game Commission leases adjoining state game lands that are open to the public for hunting.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$740	\$321	\$1,061	\$756	\$165	\$921	\$755	\$190	\$945
Recreation	\$60		\$60	\$282		\$282	\$200		\$200
Environmental Stewardship	\$36		\$36	\$15	\$16	\$31	\$55	\$41	\$96
<b>Total</b>	<b>\$836</b>	<b>\$321</b>	<b>\$1,157</b>	<b>\$1,053</b>	<b>\$181</b>	<b>\$1,234</b>	<b>\$1,010</b>	<b>\$231</b>	<b>\$1,241</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Recreation	\$335	\$25	Rehab Bridge at Bossard Run Creek Nature Trail
		\$50	Maintenance of Recreation Features
		\$180	Replace Water System Holding Tank at Overlook
		\$70	Repave Parking Lot and Driveway for Fishing Access
		\$10	Replace Sewage Lift Station

**Additional Information**

- Fee Lands: 1,732 acres
- Flowage Easement Lands: 1 acre

**Congressional Interests**

Senator Bob Casey, Jr., D-PA  
 Senator: Pat Toomey, R-PA  
 Representative Mike Kelly, R-PA-16



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# Youghiogheny River Lake

Confluence, PA



## Project Features

- Authorization: Flood Control Act of 1938 (P.L. 75-761).
- Primary project purposes are flood damage reduction, hydropower, recreation, fish and wildlife enhancement, and low water augmentation.
- The dam was completed in 1943 and serves a drainage area of 434 square miles.
- This dam is a rolled earth embankment type with an impervious core and an uncontrolled side channel spillway. The dam is 184 ft. tall and 1,610 ft. long. The outlet works on the dam are three vertical lift gates and a concrete lined tunnel.
- There are 7 recreation areas at Youghiogheny River Lake. The combination of these recreation areas and sites are managed by both the Corps, the PA Fish and Boat Commission and private entities. There are 19 picnic sites around the lake. There are also 4 group picnic areas with 35 picnic sites and one picnic shelter. There are 13 boat ramps operated by the Corps and other agencies and private owners. There is also a privately operated marina with 316 wet slips.

## Consequences of Not Maintaining the Project

- Failure to adequately fund the flood risk management mission at this facility would result in the project's inability to adequately execute the flood risk management mission as authorized by congress. The consequences could range in severity depending upon the condition of the project, but would ultimately lead to a failure of the structure and a subsequent life safety concern for those in the affected downstream areas.
- Closure of recreational facilities will result in degradation of facilities, negative public reaction and potential Congressional inquiries.



## Regional Importance

- The project averages 640 thousand visitors annually. This visitation results in \$31.3 million in visitor spending, \$16.5 million in sales, 262 jobs resulting in \$6.8 million in labor income to the local economy, all within 30 miles of the project. This represents a sizable component of the economy in the local community.
- The project has prevented over \$2.5 billion in flood damages since its completion in 1943.
- Youghiogheny River Lake provides visitors with the chance to enjoy a number outdoor recreational opportunities. Boaters enjoy the 16 mile long lake with its various channels. For those who prefer the non-motorized boating there is plenty to offer. The outflow area to approximately 20 miles downstream is one of the more popular rafting and canoeing rivers in the eastern US. This stretch of river below the dam is renowned for its whitewater and is often the scene of national kayaking competitions.
- Whitewater activities that depend on project operations, recreational fishing, and boating at the project are specifically authorized project purposes.

**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Flood Risk Management	\$1,663	\$512	\$2,175	\$1,936	\$510	\$2,446	\$1,652	\$449	\$2,101
Recreation	\$417		\$417	\$492	\$50	\$542	\$495		\$495
Environmental Stewardship	\$223	\$5	\$228	\$282	\$51	\$333	\$169	\$96	\$265
Water Supply	\$8		\$8	\$8		\$8	\$8		\$8
<b>Total</b>	<b>\$2,311</b>	<b>\$517</b>	<b>\$2,828</b>	<b>\$2,718</b>	<b>\$611</b>	<b>\$3,329</b>	<b>\$2,324</b>	<b>\$545</b>	<b>\$2,869</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Flood Risk Management	\$940	\$30	Re-drill horizontal drains in spillway - Youghiogheny
		\$770	Re-establish or replace rock fill on the embankment - Youghiogheny
		\$40	Remove Talus and Stored Material from Spillway - Youghiogheny
		\$100	Repair Deteriorated Spillway Concrete - Youghiogheny
Recreation	\$450	\$100	Outflow Campground Electrical System Replacement
		\$150	Repave Road at Outflow Campground
		\$200	Repave Parking Lot and Boat Launch Ramp at Somefield North
Environmental Stewardship	\$20	\$20	Youghiogheny Bottom Land Habitat Treatment

**Additional Information**

- Fee Lands: 3,914 acres
- Flowage Easement Lands: 1 acre

**Congressional Interests**

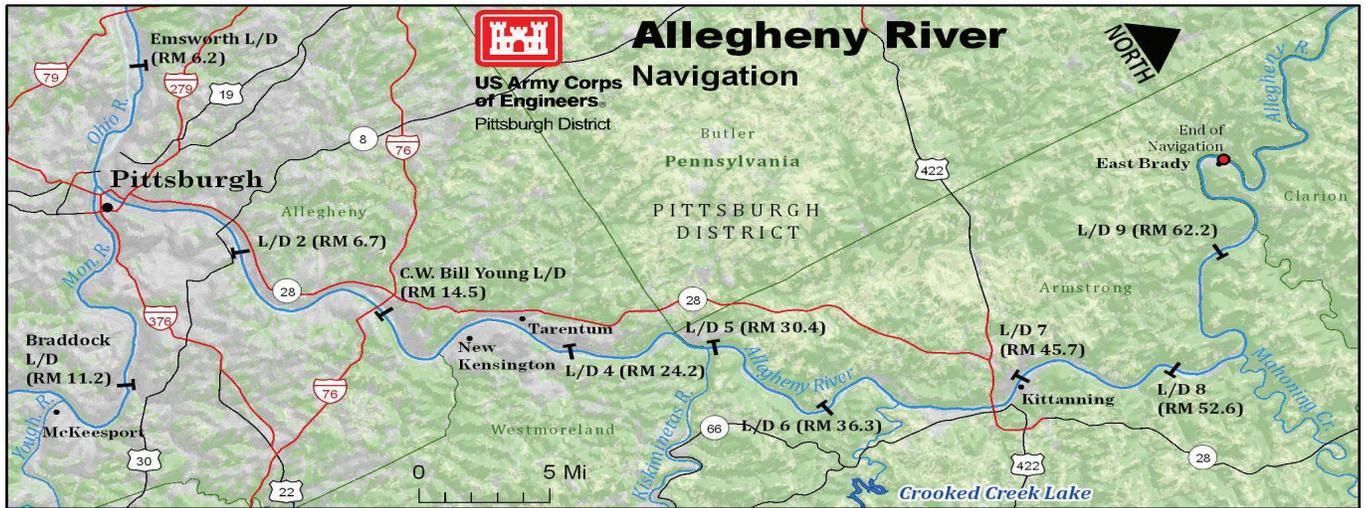
Senator Bob Casey, Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative John Joyce, R-PA-13  
 Representative Guy Reschenthaler, R-PA-14  
 Senator Benjamin Cardin, D-MD  
 Senator Chris Van Hollen, Jr. D-MD  
 Representative David Trone, D-MD-06



US Army Corps of Engineers®

# Allegheny River Locks and Dams

Pittsburgh District



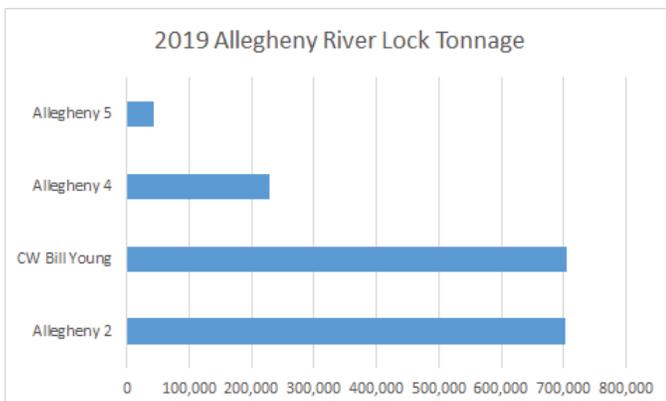
Map Date: September 2017 USACE Pittsburgh Geospatial

## Basin Characteristics

- The Allegheny River system today consists of the navigable portion of the Allegheny River which extends approximately 70 miles from the Point in Pittsburgh, PA to East Brady, PA. There are 9 locks and dams on this section of river.
- The current status on the Allegheny: Lock 2 and Lock 3 are operated 24 hours and Lock 4 16 hours a day/365 days a year and are classified as high-use locks. Lock 5 is operated 8 hours a day/365 days a year. At Locks 6, 7, 8 and 9, commercial lockages are by appointment only.

## Regional Importance

- Navigation structures on the Allegheny are necessary to make inland waterways viable for year-round navigation that allows for the transportation of an average of 2,374,000 tons/year, and provides a consistent source of water for communities in the region.
- Navigation has contributed greatly to the economic and industrial development of the region in the northern tier of PA. These locks and dams provide access to one of the largest specialty steel companies in the country and provide for four hydropower facilities.
- Because one barge can transport as much cargo as 15 rail cars and 60 tractor-trailers, waterway transportation benefits the environment. It reduces fuel consumption and emissions, and makes roads safer by keeping more trucks off the highway.
- Every year the locks provide passage for over 2 million tons of goods including grain, steel, chemicals, petroleum, and even products for our nation's defense.
- The Allegheny River is also a great resource to recreation in the area, a total of 10,000 recreational crafts locked though each year in the system.



**U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)**

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Navigation	\$4,812	\$3,051	\$7,863	\$5,049	\$2,498	\$7,547	\$4,892	\$3,352	\$8,244
<b>Total</b>	<b>\$4,812</b>	<b>\$3,051</b>	<b>\$7,863</b>	<b>\$5,049</b>	<b>\$2,498</b>	<b>\$7,547</b>	<b>\$4,892</b>	<b>\$3,352</b>	<b>\$8,244</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$14,992	\$448	Repair Interlocks - Allegheny River Lock 6
		\$112	Repair Interlocks - Allegheny River Lock and Dam 2
		\$8,109	Repair Land Chamber Wall Concrete - CW Bill Young Lock
		\$1,088	Repair Upper Guidewall Walkway - Allegheny River Lock 2
		\$615	Replace Control System - Allegheny River Lock 5
		\$472	Replace Mooring Facility for Workboat - CW Bill Young Lock
		\$330	Fixed Crest Dam Sign Installation - Allegheny River
		\$250	Facility Physical/Cyber Security Maintenance and Replacement for Navigation
		\$170	Fabricate and Install Waterway Safety Signs - Allegheny Lock 2
		\$500	Replace Security System - Allegheny Lock 2
		\$500	Replace Security System - Allegheny Lock 5
		\$500	Replace Security System - Allegheny Lock 6
		\$500	Replace Security System - Allegheny Lock 7
		\$500	Replace Security System - Allegheny Lock 8
		\$500	Replace Security System - Allegheny Lock 9
\$398	CW Bill Young Lock and Dam Interlocks Plans and Specifications		



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# Allegheny 2 Lock and Dam

Allegheny River, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1935.
- Construction of Allegheny 2 Lock and Dam began in 1932, and was completed in 1934. It was opened for navigation on 10 October 1934.
- Primary project purpose is navigation.
- The project has a non-navigable, 1,393-foot long fixed-crest dam and a single 360ft x 56ft lock chamber which provides an 11-foot vertical lift.
- Lock is staffed 24 hours a day, 7 days a week.
- The project has one day use recreation area.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- In 2019, over 700 thousand tons of cargo, over 600 commercial vessels, and over 1900 recreational vessels locked through the project. (This facility was under construction part of this year)
- Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, farm products, manufactured machinery, and other commodities.
- The principal commodity at Lock 2 is coal, which is transported into the C.W. Bill Young pool for power generation.
- The transportation savings associated with this facility is approximately \$16M a year.
- Singles up and down lock time is approximately 52 minutes.

### Additional Information

- 2019 lock tonnage (in thousands) 703
- National Rank: 140
- Current Miter Gate In Service Date:  
Main: 1962 Auxiliary: 1962
- Projected Year Lock Miter Gates Reach  
"F" Condition: 2036
- Projected Miter Gate Replacement:  
Downstream: 2040 Upstream: 2040
- Fee Lands: 5.9 acres
- Flowage Easement Lands: 0 acres

### Congressional Interests

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Conor Lamb, D-PA-17  
Representative Michael Doyle Jr., D-PA-18



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# C. W. Bill Young Lock and Dam

Allegheny River, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1935.
- Construction of C. W. Bill Young Lock and Dam began in 1932, and was completed in 1934. It was opened for Navigation on 10 October 1934.
- Primary project purpose is navigation.
- The project has a non-navigable, 1,435.75-foot long fixed-crest, and a single 360ft x 56ft lock chamber, which provides an 11-foot vertical lift.
- Lock is staffed 24 hours a day, 7 days a week.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- In calendar year 2019, the volume of cargo transported exceeded 700 thousand tons
- In 2019, there were 696 commercial vessels and 1,351 recreational vessels locked through Lock and Dam 3 on the Allegheny.
- Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, farm products, manufactured machinery, and other commodities.
- The principal commodity at C.W. Bill Young is coal, which is transported upstream for power generation.
- Construction and supply companies utilize this facility to move raw materials throughout the region.
- The transportation savings associated with this facility is approximately \$16M a year.
- Singles up and down lock time is approximately 56 minutes.

### **Additional Information**

- 2019 lock tonnage (in thousands) 704
- National Rank: 140
- Current Miter Gate In Service Date: 1991
- Projected Year Lock Miter Gates Reach "F" Condition: 2028
- Projected Miter Gate Replacement:  
Downstream: 2034 Upstream: 2034
- Fee Lands: 5.4 acres
- Flowage Easement Lands: 16 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Conor Lamb, D-PA-17  
Representative Michael Doyle, Jr. D-PA-18



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# Allegheny 4 Lock and Dam

Allegheny River, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1912.
- Construction of Allegheny 4 Lock and Dam began in 1920, and was completed in 1927. Operations began on 6 September 1927.
- Primary project purpose is navigation.
- The project has a non-navigable, 876-foot long fixed-crest and a single 360ft x 56ft lock chamber which provides an 11-foot vertical lift.
- Lock is staffed 10 hours a day, 7 days a week.



## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

## Regional Importance

- In calendar year 2019, the volume of cargo transported exceeded 229 thousand tons
- In 2019, there were 329 commercial vessels and 904 recreation vessels locked through Lock and Dam 4 on the Allegheny River.
- Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, farm products, manufactured machinery, and other commodities.
- The principal commodity at Lock 4 includes crude materials such as stone, sand, gravel, and cement.
- Construction and supply companies use this facility to move raw materials throughout the region.
- The transportation savings associated with this facility is approximately \$5M a year.
- Singles up and down lock time is approximately 40 minutes.

### **Additional Information**

- 2019 lock tonnage (in thousands) 229
- National Rank: 152
- Current Miter Gate In Service Date: 1996
- Projected Year Lock Miter Gates Reach "F" Condition: 2052
- Projected Miter Gate Replacement:  
Downstream: 2059 Upstream: 2059
- Fee Lands: 10.5 acres
- Flowage Easement Lands: 5.3 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Conor Lamb, D-PA-17  
Representative Guy Reschenthaler, R-PA-14



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# Allegheny 5 Lock and Dam

Allegheny River, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1912.
- Construction of Allegheny 5 Lock and Dam began in 1920, and was completed in 1927. It became operational on 20 October 1927.
- Primary project purpose is navigation.
- The project has a non-navigable, 632-foot long fixed-crest dam and a single 360ft. x 56ft. lock chamber which provides an 11.8-foot vertical lift.
- Sithe Energies operates a hydropower facility on the abutment that has two turbines rated at 4.75 MW each. The combined discharge capacity of both units is approximately 12,000 cfs.
- Lock is staffed 16 hours a day, 7 days a week.



## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, loss of electrical energy produced by hydropower plants at the dams, and lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

## Regional Importance

- In calendar year 2019, the volume of cargo transported exceeded 43 thousand tons.
- In 2019, there were 91 commercial vessels and 467 recreation vessels locked through Lock and Dam 5 on the Allegheny River.
- Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, farm products, manufactured machinery, and other commodities.
- The principal commodity at Lock 5 is crude material such as stone, sand, gravel, and cement.
- Construction and supply companies use this facility to move raw materials throughout the region.
- The transportation savings associated with this facility is approximately \$1.5M a year.
- Singles up and down lock time is approximately 37 minutes.
- The facility has a 9.5MW hydropower facility.

### **Additional Information**

- 2019 lock tonnage (in thousands) 43
- National Rank: 158
- Current Miter Gate In Service Date: 2000
- Projected Year Lock Miter Gates Reach "F" Condition: 2055
- Projected Miter Gate Replacement:  
Downstream: 2063 Upstream: 2063
- Fee Lands: 6.3 acres
- Flowage Easement Lands: 0 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Glenn Thompson, R-PA-15



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# Allegheny 6 Lock and Dam

Allegheny River, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1912.
- Construction of Allegheny 6 Lock and Dam began in 1927, and was completed in 1928. It became operational on 10 October 1928.
- Primary project purpose is navigation.
- The project has a non-navigable, 992-foot long fixed-crest dam, and a single 360ft. x 56ft. lock chamber, which provides a 12.2-foot vertical lift.
- Sithe Energies operates a hydropower facility on the abutment that has two turbines rated at 4.75 MW each. The combined discharge capacity of both units is approximately 12,000 cfs.
- The lock is an IMTS level 6 facility offering commercial lockages by appointment only.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, loss of electrical energy produced by hydropower plants at the dams, and lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- In 2019, 13 thousand tons of cargo were locked through. Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, farm products, manufactured machinery, and other commodities.
- In 2019, there were 23 commercial vessels and 228 recreation vessels locked through Lock and Dam 6 on the Allegheny River.
- The principal commodity at Lock 6 is crude materials such as stone, sand, gravel, and cement.
- Construction and supply companies use this facility to move raw materials throughout the region.
- Singles up and down lock time is approximately 36 minutes.
- The facility has a 9.5MW hydropower facility.

### **Additional Information**

- 2019 lock tonnage (Thousands) 13
- National Rank: 160
- Current Miter Gate In Service Date: 1992
- Projected Year Lock Miter Gates Reach "F" Condition: 2052
- Projected Miter Gate Replacement:  
Downstream: 2064 Upstream: 2064
- Fee Lands: 7.2 acres
- Flowage Easement Lands: 41.9 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Glenn Thompson, R-PA-15



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# Allegheny 7 Lock and Dam

Allegheny River, PA

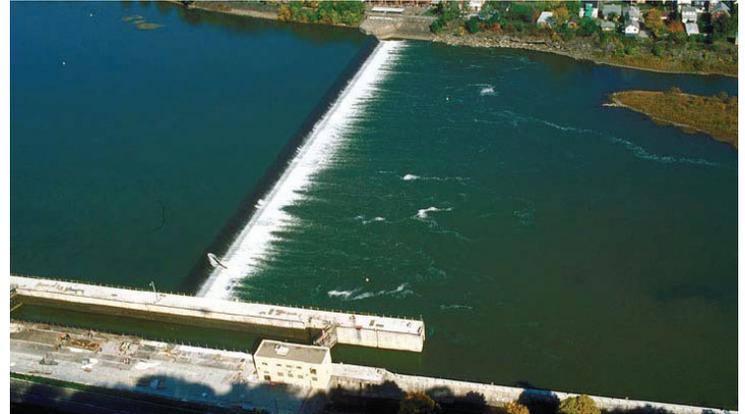


## Project Features

- Authorization: Rivers and Harbors Act of 1912.
- Primary project purpose is navigation.
- Construction on Allegheny 7 Lock and Dam began in 1928, and was completed in 1931. Operations began on 10 November 1930.
- The project has a non-navigable, 916-foot long fixed-crest dam, and a single 360ft. x 56ft. lock chamber, which provides a 13-foot vertical lift.
- The lock is an IMTS level 6 facility offering commercial lockages by appointment only.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- In 2019, 3 thousand tons of cargo locked through the facility. Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, farm products, manufactured machinery, and other commodities.
- In 2019, there were 10 commercial vessels, and 324 recreation vessels locked through Lock and Dam 7 on the Allegheny River.
- The principal commodity at Lock 7 is crude material; such as stone, sand, gravel, and cement.
- Construction and supply companies use this facility to move raw materials throughout the region.
- Singles up and down lock time is approximately 37 minutes.

### **Additional Information**

- 2019 lock tonnage (Thousands) 3
- National Rank: 160
- Current Miter Gate In Service Date: 1994
- Projected Year Lock Miter Gates Reach "F" Condition: 2055
- Projected Miter Gate Replacement:  
Downstream: 2067 Upstream: 2067
- Fee Lands: 2.6 acres
- Flowage Easement Lands: 0 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Glenn Thompson, R-PA-15



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# Allegheny 8 Lock and Dam

Allegheny River, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1912, and 1935.
- Construction began on Allegheny 8 Lock and Dam in 1929, and was completed in 1931. Operations began on 21 May 1931.
- Primary project purpose is navigation.
- The project has a non-navigable, 916-foot long fixed-crest dam, and a single 360ft. x 56ft. lock chamber, which provides a 17.9-foot vertical lift.
- Sithe Energies operates a hydropower facility on the abutment that has two turbines rated at 6.8 MW each. The combined discharge capacity of both units is approximately 12,000 cfs.
- The lock is an IMTS level 6 facility offering commercial lockages by appointment only.



## Regional Importance

- Singles up and down lock time is approximately 23 minutes.
- In 2019, there were 341 recreation vessels locked through Lock and Dam 8 on the Allegheny River.
- The facility has a 13.6MW hydropower facility.

## Consequences of Not Maintaining the Project

- Failure to provide adequate funding to maintain this facility will have little or no effect to commercial transportation costs associated with this facility.
- Failure of the dam or a lock component which results in the loss of pool will halt operation of a 13.6MW hydropower facility and will likely impact municipal and commercial water supplies until an emergency repair can be achieved.

### **Additional Information**

- 2019 lock tonnage: none
- National Rank: N/A
- Current Miter Gate In Service Date: 1994
- Projected Year Lock Miter Gates Reach "F" Condition: 2060
- Projected Miter Gate Replacement:  
Downstream: 2073 Upstream: 2073
- Fee Lands: 7.9 acres
- Flowage Easement Lands: 73.2 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Glenn Thompson, R-PA-15



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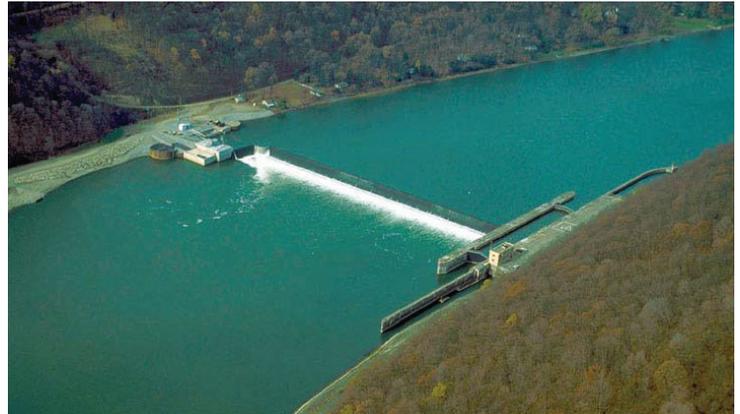
# Allegheny 9 Lock and Dam

Allegheny River, PA



## Project Features

- Authorization: Rivers and Harbors Act of 1935.
- Primary project purpose is navigation.
- Construction of Allegheny 9 Lock and Dam began in 1935, and was completed in 1938. Operations began on 6 October 1938.
- The project has a non-navigable, 918-foot long fixed-crest dam, and a single 360-ft. x 56-ft. lock chamber, which provides a 22-foot vertical lift.
- Sithe Energies operates a hydropower facility on the abutment that has two turbines rated at 9.0 MW each. The combined discharge capacity of both units is approximately 19,700 cfs.
- The lock is an IMTS level 6 facility offering commercial lockages by appointment only.



## Regional Importance

- Singles up and down lock time is approximately 20 minutes up and down.
- In 2019 there were 274 Recreational Vessels locked at Lock 9.
- T facility has a 18MW hydropower facility.

## Consequences of Not Maintaining the Project

- Failure to provide adequate funding to maintain this facility will have little or no effect to commercial transportation costs associated with this facility.
- Failure of the dam or a lock component which results in the loss of pool will halt operation of a 18MW hydropower facility; and will likely impact municipal and commercial water supplies until an emergency repair can be achieved.

### **Additional Information**

- 2019 lock tonnage: none
- National Rank: N/A
- Current Miter Gate In Service Date: 1992
- Projected Year Lock Miter Gates Reach "F" Condition: 2060
- Projected Miter Gate Replacement:  
Downstream: 2073 Upstream: 2073
- Fee Lands: 28.8 acres
- Flowage Easement Lands: 9.2 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Glenn Thompson, R-PA-15



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# Monongahela River Locks and Dams

Pittsburgh District



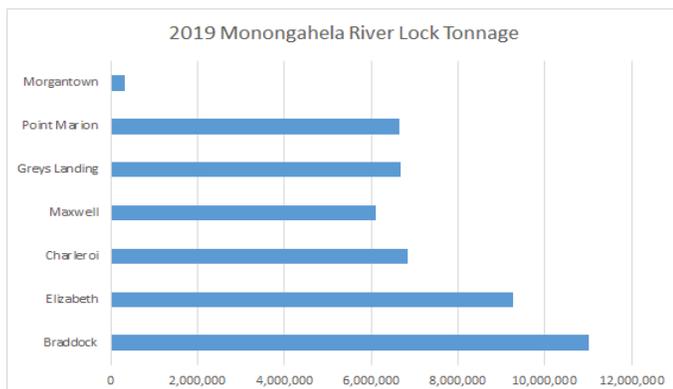
Map Date: September 2017 USACE Pittsburgh Geospatial

## Basin Characteristics

- The Monongahela River system today is managed through a series of 9 locks and dams over 128.7 miles of navigable waters just above Fairmont, WV to the Point at Pittsburgh. The locks and dams are owned and operated by the US Army Corps of Engineers .
- The Monongahela and Allegheny Rivers combine at the Point in Pittsburgh, PA to begin the Ohio River.
- The three rivers that make up the Port of Pittsburgh are used to carry raw materials, bulk and manufactured goods for many industries in the region.
- The Port of Pittsburgh is the 2nd busiest inland port and the 22nd busiest port of any kind in the nation.

## Regional Importance

- The Monongahela River is a tributary of the Ohio River, the Monongahela is part of the nation's Inland Waterway System. These interconnected river routes serve to strategically link geographic areas, major markets, suppliers of raw materials, processors and consumers.
- Navigation has contributed greatly to the economic and industrial development of the Monongahela River Valley as a whole. The economies of Northern WV and SW Pennsylvania and beyond would not be as dynamic as they are today, were it not for the Monongahela River. There is an average of 46.8 million tons of goods and commodities per year.
- Because one barge can transport as much cargo as 15 rail cars and 60 tractor-trailers, waterway transportation benefits the environment. It reduces fuel consumption and emissions, and makes roads safer by keeping more trucks off the highway.
- About 80% of the "coking coal" used in the entire US for steel production comes from a single coking plant on the Lower Monongahela and is fed with Monongahela river coal.



U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Navigation	\$9,439	\$5,744	\$15,183	\$12,201	\$9,710	\$21,911	\$11,695	\$6,455	\$18,150
<b>Total</b>	<b>\$9,439</b>	<b>\$5,744</b>	<b>\$15,183</b>	<b>\$12,201</b>	<b>\$9,710</b>	<b>\$21,911</b>	<b>\$11,695</b>	<b>\$6,455</b>	<b>\$18,150</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$5,790	\$400	Facility Physical/Cyber Security Maintenance and Replacement for Navigation
		\$300	Fixed Crest Dam Sign Installation - Monongahela River
		\$388	Repair Bulkhead Latching - Charleroi Lock and Dam
		\$112	Repair Interlocks - Hildebrand Lock and Dam
		\$112	Repair Interlocks - Maxwell Lock and Dam (LOS 1-3)
		\$112	Repair Interlocks - Morgantown Lock and Dam
		\$112	Repair Interlocks - Opekiska Lock and Dam
		\$2,337	Repair Main Chamber Sector Gears - Braddock Lock and Dam
		\$344	Replace Braddock Lock and Dam Gate Cylinders
		\$750	Replace Elevator and Components - Braddock Lock and Dam
		\$73	Replace Scour Protection for Dam Stilling Basin - Braddock Lock and Dam
\$750	Replace Security System - Grays Landing Lock and Dam		



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# Braddock Locks and Dam

Braddock, PA

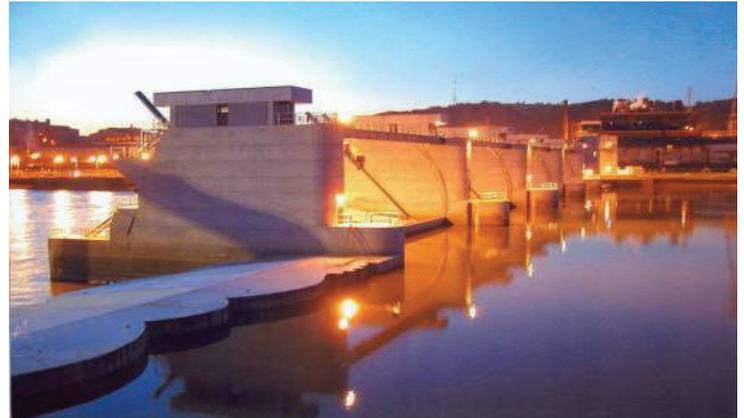


## Project Features

- Authorization: Rivers and Harbors Act dated 13 June 1902. Lock improvements and new gated dam authorized by Water Resources Development Act of 1992.
- Braddock Locks and Dam was constructed from 1904-1906. It underwent a reconstruction that ended in 1953, and more recently, had its fixed-crest dam replaced with a gated dam.
- The locks and dam has a combined length of 761.7-feet. It also has an uncontrolled spillway with two sections, one 117.5-feet in length and the other 93.8-feet. The controlled spillway is comprised of four tainter gates, all 110-feet in length, three non-overflow, and one water quality gate.
- There are two locks at Braddock, the lan side lock is 110ft. x 720ft., and the river side lock is 56ft. x 360ft., which provides a 8.7 foot vertical lift.
- A channel depth of 9-ft. and width of 300-ft. is required for navigation. Maintenance dredging is performed as needed.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- Annually, there are 11M tons of cargo, over 2,900 commercial vessels, and 600 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Braddock.
- Construction companies move stone, sand, gravel, and cement into the region through Braddock Locks and Dam. These and other shippers that rely on Braddock, realized average annual transportation cost savings in excess of \$209M.
- Failure to maintain this facility would have significant detrimental effects to the local and regional economy. The absence of Braddock Locks and Dam would result in increased transportation costs, and delays to the movement of goods throughout the region.

### **Additional Information**

- 2019 lock tonnage (in thousands) 11,005
- National Rank: 56
- Current Miter Gate In Service Date: 1994
- Projected Year Lock Miter Gates Reach "F" Condition:  
Main: 2024  
Auxiliary: Downstream 2042, Upstream 2041
- Projected Miter Gate Replacement:  
Main: Downstream: 2032 Upstream: 2032  
Auxiliary: Downstream 2052 Upstream 2051
- Fee Lands: 4.0 acres
- Flowage Easement Lands: 0.17 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Michael Doyle Jr., D-PA-18



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# Locks and Dam 4 (Charleroi)

Belle Vernon, PA



## Project Features

- Authorization: Rivers and Harbors Act dated 3 March 1909. Authorized for reconstruction at present site under the Rivers and Harbors Act dated 3 July 1930.
- Locks and Dam 4 was constructed from 1931-1932, and rehabilitation was completed in 1967. This reconstruction of the dam converted it from a fixed-crest to a gated dam, and raised the pool level 6-feet. Coupled with the construction of the Maxwell Locks and Dam project, the pool raise eliminated the need for old Lock and Dam 5 at Brownsville. Construction of a new lock chamber is ongoing.
- The dam is comprised of an uncontrolled spillway fixed weir, 43-ft. long, and a controlled spillway comprised of five gated sections each 84-ft. long.
- A channel depth of 9-ft. and width of 300-ft. is required for navigation. Maintenance dredging of the channel is performed as needed.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- Annually, there are 6M tons of cargo, over 3,900 commercial vessels, and 394 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include; petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the mid-Atlantic, Southeastern and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Locks and Dam 4.
- Construction companies move stone, sand, gravel, and cement into the region through Locks and Dam 4. These and other shippers that rely on Locks and Dam 4 realized an average annual transportation cost savings in excess of \$107M.

### **Additional Information**

- 2019 lock tonnage (in thousands) 6,848
- National Rank: 85
- Current Miter Gate In Service Date: 2005
- Projected Year Lock Miter Gates Reach "F" Condition: 2059
- Projected Miter Gate Replacement:  
Downstream: 2061 Upstream: 2061
- Fee Lands: 1.06 acres
- Flowage Easement Lands: 59.76 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Guy Reschenthaler, R-PA-14



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## Locks and Dam 3 (Elizabeth)

Elizabeth, PA



### Project Features

- Authorization: Rivers and Harbors Act dated 3 March 1905. Land chamber lengthening to 720 was authorized by Water Resources Development Act dated 22 September 1992.
- Locks and Dam 3 was constructed from 1905-1907 and rehabilitation was completed in 1980.
- The facility is comprised of a 670-ft fixed-crest dam, a 720-ft. X 56-ft. land side lock, and a 360-ft X 56-ft river side lock which provide for a 8.2-ft vertical lift.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed, as needed.

### Consequences of Not Maintaining the Project

- Locks and Dam 3 is part of the Lower Mon Project which has modernized Braddock Locks and Dam, and is in the process of modernizing Lock and Dam 4, Charleroi, and will eventually remove Lock and Dam 3, Elizabeth.



### Regional Importance

- Annually, there are 9.2M tons of cargo, over 4,900 commercial vessels, and 715 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the mid-Atlantic, Southeastern and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Locks and Dam 3.
- Construction companies move stone, sand and gravel, and cement into the region through Locks and Dam 3. These and other shippers that rely on Locks and Dam 3 realized an average annual transportation cost savings in excess of \$150M.

### **Additional Information**

- 2019 lock tonnage (in thousands) 9,280
- National Rank: 65
- Current Miter Gate In Service Date: 1998
- Projected Year Lock Miter Gates Reach "F" Condition: 2019
- Projected Miter Gate Replacement:  
Downstream: 2021 Upstream: 2021
- Fee Lands: 1.67 acres
- Flowage Easement Lands: 14.07 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Mike Doyle, D-PA-18



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# Grays Landing Lock and Dam

Masontown, PA



## Project Features

- Authorization: Supplemental Appropriation Act of 1985 for Engineering and Design and Land Acquisition, and Water Resources Development Act of 1986, 99th Congress dated 13 November 1986 Public Law 99-662 for construction.
- Grays Landing Lock and Dam, on the Monongahela River, was constructed from 1986-1995. It is comprised of a 576-ft. fixed-crest dam and a 84-ft. X 720-ft. lock which provides for a 15-ft. vertical lift.
- A channel depth of 9-ft. and width of 300-ft. is required for navigation. Maintenance dredging is performed as needed.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- Annually, there are 6M tons of cargo, over 1,800 commercial vessels, and 452 recreational vessels locked through the project. Cargo consists mainly of coal but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the mid-Atlantic, Southeastern and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Grays Landing Lock and Dam.
- Construction companies move stone, sand and gravel, and cement into the region through these locks. These, and other shippers that rely on Grays Landing Lock and Dam, realized an average annual transportation cost savings in excess of \$23M.

### **Additional Information**

- 2019 lock tonnage (in thousands) 6,671
- National Rank: 128
- Current Miter Gate In Service Date: 1993
- Projected Year Lock Miter Gates Reach "F" Condition: 2082
- Projected Miter Gate Replacement: 2090
- Fee Lands: 80.93 acres
- Flowage Easement Lands: 515.58 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Representative Guy Reschenthaler, R-PA-14



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# Hildebrand Lock and Dam

Morgantown, WV



## Project Features

- Authorization: Rivers and Harbors Act dated 17 May 1950.
- Hildebrand Lock and Dam was constructed from 1923-1926 on the Monongahela River. The dam was reconstructed from 1956-1960.
- The facility is comprised of a 530-ft. gate dam, comprised of two fixed-weir sections, one at each end of the dam, each 50-ft. in length. There is a controlled spillway comprised of 6 gated sections, each 60-ft. in length. There is a 84-ft. X 600-ft. lock chamber. Both the dam and the lock provide a 21-ft. vertical lift.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed as needed.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities; including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- Annually, there are 4 thousand tons of cargo, 3 commercial vessels, and 175 recreational vessels locked through the project. Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, manufactured machinery, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the mid-Atlantic, Southeastern and Midwestern regions of the US. Steel companies move coal from West Virginia to coking facilities on the Monongahela River. The transportation savings associated with this facility average \$36,749.

### **Additional Information**

- 2019 lock tonnage 4,554
- National Rank: N/A
- Current Miter Gate In Service Date: 1959
- Projected Year Lock Miter Gates Reach "F" Condition: 2021
- Projected Miter Gate Replacement:  
Downstream: 2034 Upstream: 2034
- Fee Lands: 24.52 acres
- Flowage Easement Lands: 24.52 acres

### **Congressional Interests**

Senator Joe Manchin, D-WV  
Senator Shelley Moore Capito, R-WV  
Congressman David McKinley, R-WV-01



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# Maxwell Locks and Dam

East Millsboro, PA



## Project Features

- Authorization: Rivers and Harbors Act dated 3 March 1909.
- Maxwell Locks and Dam was constructed from 1960 to 1965. It is comprised of a 460-ft. gated dam, an 84-ft. x 720-ft. land side lock, and an 84-ft. x 720-ft. river side lock, which provides for a 19.5-ft. vertical lift. The dam has an overall length of 460-ft. The spillway is comprised of 5 gated sections, each 84-ft. in length.
- A channel depth of 9-ft. and width of 300-ft. is required for navigation. Maintenance dredging is performed as needed.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- Annually, there are 6M tons of cargo, over 2,000 commercial vessels, and 1,000 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Maxwell Locks and Dam.
- Construction companies move stone, sand, gravel, and cement into the region through Maxwell Locks. These, and other shippers that rely on Maxwell Locks and Dam, realized an average annual transportation cost saving in excess of \$85M.

### **Additional Information**

- 2019 lock tonnage (in thousands) 6,093
- National Rank: 90
- Current Miter Gate In Service Date: 1964
- Projected Year Lock Miter Gates Reach "F" Condition: 2023
- Projected Miter Gate Replacement:  
Downstream: 2031 Upstream: 2031
- Fee Lands: 47.77 acres
- Flowage Easement Lands: 98.05 acres

### **Congressional Interests**

Senator - Bob Casey Jr., D-PA  
Senator - Pat Toomey, R-PA  
Representative - Guy Reschenthaler, R-PA-14



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# Morgantown Lock and Dam

Morgantown, WV



## Project Features

- Authorization: Rivers and Harbors Act dated 3 March 1909.
- Morgantown Lock and Dam was constructed from 1948 to 1950 and placed into operation in July 1950.
- The facility is comprised of a 410-ft. gate dam and a 84-ft. x 600-ft. lock which provides for a 17-ft. vertical lift. The overall length of the dam is 530-ft. An uncontrolled spillway is comprised of two fixed-weir sections, one at each end of the dam, and each 50-ft. in length. The controlled spillway is comprised of 6 gated sections, each 60-ft. in length.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed as needed.



## Regional Importance

- Annually, there are 322 thousand tons of cargo, over 470 commercial vessels, and 198 recreational vessels locked through the project. Cargo consists of coal, petroleum, chemicals, crude materials, manufactured goods, manufactured machinery, and other commodities.
- Construction and supply companies use this facility to move raw materials throughout the region. The transportation savings associated with this facility averaged \$941 thousand annually.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

### **Additional Information**

- 2019 Lock Tonnage (in thousands): 322
- National Rank: 157
- Current Miter Gate In Service Date: 1950
- Projected Year Lock Miter Gates Reach "F" Condition: 2024
- Projected Miter Gate Replacement:  
Downstream: 2035 Upstream: 2035
- Fee Lands: 27.45 acres
- Flowage Easement Lands: 84.05 acres

### **Congressional Interests**

Senator - Joe Manchin, D-WV  
Senator - Shelley Moore Capito, R-WV  
Representative - David McKinley, R-WV-1



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# Opekiska Lock and Dam

Fairmont, WV



## Project Features

- Authorization: Rivers and Harbors Act dated 17 May 1950.
- Opekiska Lock and Dam was constructed on the Monongahela River from 1961-1964.
- The facility is comprised of a 366-ft. gate dam comprised of 4 gated sections, each 84-ft. in length. There is a 84-ft. X 600-ft. lock, both the dam and the lock provide a 22-ft. vertical lift.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed as needed.
- Opekiska is a Level of Service 6 lock operating by commercial appointment.



## Regional Importance

- Annually there are 267 recreational vessels locked through the project. On average 2,500 tons of cargo are locked through.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

### **Additional Information**

- 2019 lock tonnage (in thousands) 2.5
- National Rank: N/A
- Current Miter Gate In Service Date: 1964
- Projected Year Lock Miter Gates Reach "F" Condition: 2022
- Projected Miter Gate Replacement:  
Downstream: 2034 Upstream: 2034
- Fee Lands: 247.39 acres
- Flowage Easement Lands: 142.29 acres

### **Congressional Interests**

Senator Joe Manchin, D-WV  
Senator Shelley Moore Capito, R-WV  
Representative David McKinley, R-WV-01



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# Point Marion Lock and Dam

Dilliner, PA



## Project Features

- Authorization: Alteration of the dam, to provide a movable crest was authorized under the Rivers and Harbors Act, dated 17 May 1950. Supplemental Appropriation Act of 1985 for Engineering and Design and Land Acquisition, and Water Resources Development Act of 1986, 99th Congress dated 13 November 1986, Public Law 99-662 for construction of a new lock.
- Point Marion Lock and Dam was originally constructed from 1923-1926 on the Monongahela River. The dam was reconstructed from 1958-1959. A new lock chamber was completed in 1994. The facility is comprised of a 667-ft. gated dam and a 84-ft. x 720-ft. lock which provides for a 19-vertical lift.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed as needed.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- Annually there are 6M tons of cargo, over 1,800 commercial vessels, and 279 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Point Marion Lock and Dam.
- Construction companies move stone, sand and gravel, and cement into the region through these locks. These, and other shippers that rely on Point Marion Lock and Dam, realized an average annual transportation cost savings in excess of \$23M.

### **Additional Information**

- 2019 lock tonnage (in thousands) 6,641
- National Rank: 56
- Current Miter Gate In Service Date: 1994
- Projected Year Lock Miter Gates Reach "F" Condition: 2083
- Projected Miter Gate Replacement: 2091
- Fee Lands: 94.9 acres
- Flowage Easement Lands: 714.94 acres

### **Congressional Interests**

Senator Bob Casey Jr., D-PA  
Senator Pat Toomey, R-PA  
Senator Joe Manchin, D-WV  
Representative Guy Reschenthaler, R-PA-14  
Senator Shelley Moore Capito, R-WV  
Representative David McKinley, R-WV-01



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# Ohio River Locks and Dams

Pittsburgh District



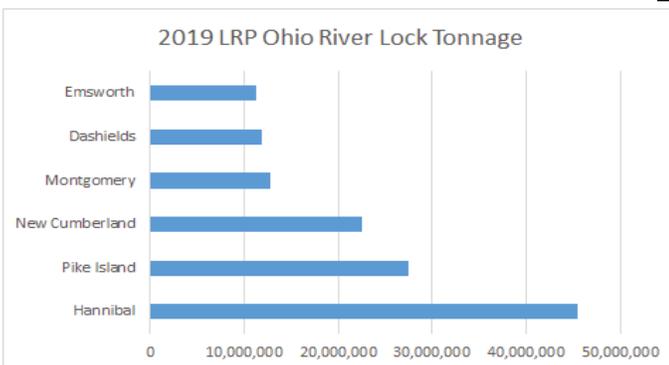
Map Date: September 2017 USACE Pittsburgh Geospatial

## Basin Characteristics

- The Ohio River system within the Pittsburgh District is managed through a series of 6 locks and dams owned and operated by the U.S. Army Corps of Engineers. This stretch of the Ohio River begins at The Point at Pittsburgh to Hannibal Locks and Dam at Hannibal, OH.
- Dedicated in 1885, Davis Island Lock and Dam was the first of 53 Ohio River locks and dams, built over a 44 year period, descending from Pittsburgh to Cairo, IL.
- The Monongahela and Allegheny Rivers combine at the Point in Pittsburgh, PA to begin the Ohio River.
- The Port of Pittsburgh is the 2nd busiest inland port and the 22nd busiest port of any kind in the nation.

## Regional Importance

- The Ohio River is part of the nation's Inland Waterway System. These interconnected river routes serve to strategically link geographic areas, major markets, suppliers of raw materials, processors and consumers.
- Navigation has contributed greatly to the economic and industrial development of the Ohio River Valley as a whole. The economies of PA, WV, OH, IN, KY, IL and beyond would not be as dynamic as they are today, were it not for the Ohio River.
- Because one barge can transport as much cargo as 15 rail cars and 60 tractor-trailers, waterway transportation benefits the environment. It reduces fuel consumption and emissions, and makes roads safer by keeping more trucks off the highway.
- Every year the locks provide passage for over 131 million tons of goods including grain, steel, chemicals, petroleum, and even products for our nation's defense.



U.S. Army Corps of Engineers Fiscal Year (FY) Project Appropriations and President's Budget (\$1,000)

Business Line	FY19 O&M Appropriation			FY20 O&M Appropriation			FY21 O&M President's Budget		
	Operation	Maintenance	Total	Operation	Maintenance	Total	Operation	Maintenance	Total
Navigation	\$9,439	\$5,744	\$15,183	\$12,201	\$9,710	\$21,911	\$11,695	\$6,455	\$18,150
<b>Total</b>	<b>\$9,439</b>	<b>\$5,744</b>	<b>\$15,183</b>	<b>\$12,201</b>	<b>\$9,710</b>	<b>\$21,911</b>	<b>\$11,695</b>	<b>\$6,455</b>	<b>\$18,150</b>

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages\$	
Navigation	\$5,790	\$400	Facility Physical/Cyber Security Maintenance and Replacement for Navigation
		\$300	Fixed Crest Dam Sign Installation - Monongahela River
		\$388	Repair Bulkhead Latching - Charleroi Lock and Dam
		\$112	Repair Interlocks - Hildebrand Lock and Dam
		\$112	Repair Interlocks - Maxwell Lock and Dam (LOS 1-3)
		\$112	Repair Interlocks - Morgantown Lock and Dam
		\$112	Repair Interlocks - Opekiska Lock and Dam
		\$2,337	Repair Main Chamber Sector Gears - Braddock Lock and Dam
		\$344	Replace Braddock Lock and Dam Gate Cylinders
		\$750	Replace Elevator and Components - Braddock Lock and Dam
		\$73	Replace Scour Protection for Dam Stilling Basin - Braddock Lock and Dam
\$750	Replace Security System - Grays Landing Lock and Dam		



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# Dashiels Locks and Dam

Coraopolis, PA



## Project Features

- Authorization: Rivers and Harbors Act dated 18 July 1918.
- Dashiels Locks and Dam was constructed from 1927-1929, and began operation in August of 1929. A rehabilitation was completed in December 1990.
- The project consists of a 1,585-ft. fixed-cres dam, a 110-ft. x 600-ft. land side lock, and a 56-ft. x 360-ft. river side lock, which provide a 10-ft. vertical lift.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed as needed.



## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings shippers, and delay orders for essential commodities, including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users; and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

## Regional Importance

- In 2019, over 11M tons of cargo, over 3,000 commercial vessels, and over 700 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured good, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Dashiels.
- Construction companies move stone, sand, gravel, and cement into the Pittsburgh area through Dashiels. These, and other shippers that rely on Dashiels, realized average annual transportation cost savings in excess of \$281M.

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$12,193	\$75	Repair Pedestrian-Access Bridge Masonry Abutment - Dashields Lock and Dam
		\$5,000	Repair Dam Abutment Concrete and Replace Fence - Dashields Lock and Dam
		\$1,562	Replace Upstream Mooring Cell 2 - Dashields Lock and Dam
		\$200	Repair Tow Haulage - Dashields Lock and Dam
		\$5,356	Replace Tow Haulage System - Dashields Lock and Dam

**Additional Information**

- 2019 lock tonnage (in thousands) 11,966
- National Rank (tons): 51
- Current Miter Gates In Service Date: 1986
- Projected Year Lock Miter Gates Reach  
"F" Condition: Main: 2054 Auxiliary: 2039
- Projected Miter Gate Replacement:  
Main: Downstream: 2061 Upstream: 2061  
Auxiliary: Downstream: 2050 Upstream: 2050
- Fee Lands: 9.3 acres
- Flowage Easement Lands: 8.65 acres

**Congressional Interests**

Senator Bob Casey Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Conor Lamb,, D-PA-17



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# Emsworth Locks and Dam

Pittsburgh, PA



## Project Features

- Authorization: Flood Control Act of 18 July 1918. Primary project purpose is navigation.
- The Emsworth Locks and Dam was originally constructed from 1919-1922. The structural components of the project are the oldest of any project on the Ohio River. It has been operated and maintained since 1 September 1921. The dam was reconstructed from 1935-1938 to provide gated crests, and to raise Emsworth Pool by 7-feet. Major rehabilitation was completed on November 1984.
- The project consists of a main lock chamber 110-ft. x 600-ft., with an auxiliary lock chamber 56-ft. x 360-ft.
- The overall length of the main channel dam river wall to abutment is 967.42-feet. The uncontrolled spillway length is 34.42-ft., fixed weir adjacent to the river wall. The controlled spillway has 8 gated sections, each 100-feet in length, and one Sidney gate.
- The vertical lift is 18-feet, from lower pool el. 692.0 to upper pool el. 710.0.



## Regional Importance

### Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants, and raw materials for major industries.
- In addition, pool loss could jeopardize water supply for municipal and industrial users, loss of electrical energy produced by hydropower plants at the dams, and loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

- In 2019, 11M tons of cargo, over 3,000 commercial vessels, and over 1,800 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Emsworth.
- Construction companies move stone, sand, gravel, and cement into the Pittsburgh area through Emsworth. These, and other shippers that rely on Emsworth, realized average annual transportation cost savings in excess of \$264M.
- Two major facilities who depend on river transportation - US Steel Clairton Works, the largest coke plant in the US, and the Bailey/Enlow Fork Complex, owned by Consol Energy, the largest underground coal mine in the US.
- The economic impact of Emsworth provides approximately 11,700 jobs, with a range from \$1.5M to \$2.2M per day.

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$19,442	\$451	Construct New Workboat Mooring Facility - Emsworth Lock and Dam
		\$524	Repair Service Bridge Concrete Deck - Emsworth Lock and Dam
		\$200	Repair Tow Haulage - Emsworth Lock and Dam
		\$600	Replace Conductor Rails - Emsworth Lock and Dam
		\$6,944	Replace Hydraulic System for Main and Auxiliary Chambers - Emsworth Lock and Dam
		\$5,356	Replace Tow Haulage System - Emsworth Lock and Dam
		\$5,367	Stabilize Land Wall Phase 1 - Emsworth Lock and Dam

**Additional Information**

- 2019 lock tonnage (in thousands) 11,005.25
- National Rank (tons): 54
- Current Miter Gates In Service Date: 1986
- Projected Year Lock Miter Gates Reach "F" Condition:  
Main: Downstream: 2026 Upstream: 2024  
Auxiliary Downstream: 2043 Upstream: 2043
- Projected Miter Gate Replacement:  
Main Downstream: 2033 Upstream: 2031  
Auxiliary: 2052
- Fee Lands: 16.26 acres
- Flowage Easement Lands: 2.71 acres

**Congressional Interests**

Senator Bob Casey Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Michael Doyle Jr., D-PA-14



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# Hannibal Locks and Dam

Hannibal, OH



## Project Features

- Authorization: Rivers and Harbors Act dated 3 March 1909.
- Construction on Hannibal Locks and Dam began in 1967, and was completed in 1971. It began operation in November 1971.
- The overall length of Hannibal Dam is 1,098-feet. There is a fixed weir section adjacent to the abutment that is 79-feet in length. There are 8 gated sections, each 110-feet in length. There is a 110-foot X 600-foot land side lock, and a 110-foot X 1,200-foot river side lock. There is a 20.5-foot vertical lift that is also used to operate a 34 MW privately owned and operated hydropower facility.
- A channel depth of 9-ft. and width of 300-ft. is required for navigation. Maintenance channel dredging is performed annually.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users, and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- Annually there are 42.2M tons of cargo, over 4,800 commercial vessels, and 300 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Hannibal. Construction companies move stone, sand, gravel, and cement into the Pittsburgh area through Hannibal Dam. These, and other shippers that rely on Hannibal, realized average annual transportation cost savings in excess of \$596M.

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$2,675	\$1,325	Replace Auxiliary Crane - Hannibal Lock and Dam
		\$750	Replace Elevator and Components - Hannibal Lock and Dam
		\$600	Replace Lock Lighting with High Mast Lights - Hannibal Lock and Dam

**Additional Information**

- 2019 lock tonnage (in thousands) 46,451
  - National Rank (tons): 17
  - Current Miter Gates In Service Date: 1972
  - Projected Year Lock Miter Gates Reach "F" Condition: Main: 2051 Auxiliary: 2085
  - Projected Miter Gate Replacement: Main: 2056
- Auxiliary Downstream: 2088 Upstream: 2087
- Fee Lands: 167.7 acres
  - Flowage Easement Lands: 1,720.8 acres

**Congressional Interests**

- Senator Sherrod Brown, D-OH
- Senator Robert Portman, R-OH
- Senator Joe Manchin, D-WV
- Senator Shelley Moore Capito, R-WV
- Representative Bill Johnson, R-OH-6
- Representative David McKinley, R-WV-01



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# Montgomery Locks and Dam

Monaca, PA



## Project Features

- Authorization: Rivers and Harbors Act dated 18 July 1918.
- Construction of Montgomery Locks and Dam began in 1932, and was completed in 1936. It began operation in June 1936.
- The project consists of a 1,379-ft. gate dam, a 110-ft. x 600-ft. land side lock, and a 56-ft. x 360-ft. river side lock, which provide a 17.5-ft. vertical lift. There are 2 fixed weir sections on each end and 10 gated sections, each 100-feet in length.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed as needed.



## Regional Importance

### Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants, and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users; and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

- In 2019, 12M tons of cargo, 3,999 commercial vessels, and 300 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Montgomery.
- Construction companies move stone, sand, gravel, and cement into the Pittsburgh area through Montgomery. These, and other shippers that rely on Montgomery, realized average annual transportation cost savings in excess of \$311M.

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$13,218	\$615	Replace Centralized Programmable Logic Controls Control Panel - Montgomery L&D
		\$3,247	Replace Dam Bulkheads - Montgomery Lock and Dam
		\$4,000	Replace Scour Protection for Dam Stilling Basin - Montgomery Lock and Dam
		\$5,356	Replace Tow Haulage System - Montgomery Lock and Dam

**Additional Information**

- 2019 lock tonnage (in thousands) 12,810
- National Rank (tons): 46
- Current Miter Gates In Service Date: 1989
- Projected Year Lock Miter Gates Reach "F" Condition: Main: 2059 Auxiliary: 2039
- Projected Miter Gate Replacement: Main: 2066 Auxiliary: 2050
- Fee Lands: 6.11 acres
- Flowage Easement Lands: 80.7 acres

**Congressional Interests**

Senator Bob Casey Jr., D-PA  
 Senator Pat Toomey, R-PA  
 Representative Conor Lamb, R-PA-17



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# New Cumberland Locks and Dam

Stratton, OH



## Project Features

- Authorization: Rivers and Harbors Act dated 3 March 1909.
- Construction of New Cumberland Locks and Dam began in 1955, and was completed in 1963. It began operation in November 1959.
- The project consists of a 1,315-ft. gate dam, a 110-ft. x 600-ft. land side lock, and a 110-ft. x 1,200-ft. river side lock, which provide for a 20.5-foot vertical lift. There are 11 gated sections, each 100-feet in length.
- A channel depth of 9-ft. and width of 300-ft is required for navigation. Maintenance dredging is performed as needed.



## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users; and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.

## Regional Importance

- In 2019, 22M tons of cargo, over 3,000 commercial vessels, and 490 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above New Cumberland.
- Construction companies move stone, sand, gravel, and cement into the Pittsburgh area through New Cumberland. These, and other shippers that rely on New Cumberland, realized average annual transportation cost savings in excess of \$526M.

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$5,100	\$5,100	Replace Auxiliary Chamber 4-Corner System - New Cumberland Lock and Dam

**Additional Information**

- 2019 lock tonnage (in thousands) 22,492
- National Rank (tons): 27
- Current Miter Gates In Service Date:  
Main: 2002 Auxiliary: 1959
- Projected Year Lock Miter Gates Reach  
"F" Condition:  
Main: 2085  
Auxiliary Downstream: 2017 Upstream: 2016
- Projected Miter Gate Replacement:  
Main: 2091  
Auxiliary Downstream: 2026 Upstream: 2024
- Fee Lands: 35.35 acres
- Flowage Easement Lands: 368.94 acres

**Congressional Interests**

Senator Sherrod Brown, D-OH  
 Senator Robert Portman, R-OH  
 Senator Joe Manchin, D-WV  
 Senator Shelley Moore Capito, R-WV  
 Representative Bill Johnson, R-OH-06  
 Representative David McKinley, R-WV-10



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# Pike Island Locks and Dam

Wheeling, WV



## Project Features

- Authorization: Rivers and Harbors Act dated 3 March 1909.
- Pike Island Locks and Dam were constructed 1959-1965. The lock began operation in November 1963 and construction of the dam was completed in 1965.
- The overall length of Pike Island Dam is 1,306-ft. There is a fixed weir section adjacent to the abutment that is 196-ft. in length. There are 9 gated sections, each 110-ft. in length. There is a 110-ft. x 600-ft. land side lock, and a 110-ft. x 1,200-ft. river side lock, which provide for a 21-ft. vertical lift.
- A channel depth of 9-ft. and width of 300-ft. is required for navigation. Maintenance dredging is performed as needed.

## Consequences of Not Maintaining the Project

- Failure to maintain the project could halt the movement of commercial navigation. That stoppage would result in loss of rate savings to shippers, and delay orders for essential commodities, including fuel for power plants and raw materials for major industries.
- In addition to the loss of navigation purpose, pool loss could jeopardize water supply for municipal and industrial users; and could lead to the loss of habitat for aquatic species. Such a pool loss could affect both recreation users and water quality, should there be a prolonged loss.



## Regional Importance

- In 2019, over 27M tons of cargo, over 4,100 commercial vessels, and 591 recreational vessels locked through the project. Cargo consists mainly of coal, but other commodities include petroleum, iron/steel, grains, manufactured goods, farm products, chemicals, ores/minerals, and other commodities.
- Electric utilities move coal from mines in Pennsylvania and Ohio to power plants serving the Mid-Atlantic, Southeastern, and Midwestern regions of the country. Steel companies move coal from West Virginia and Kentucky to coking facilities above Pike Island.
- Construction companies move stone, sand, gravel, and cement into the Pittsburgh area through Pike Island Locks and Dam. These and other shippers that rely on Pike Island, realized average annual transportation cost savings in excess of \$577M.

In addition to annual appropriations, this project currently has the following maintenance needs in order operate at an optimum level of service and reliability.

Business Line	FY21 Funding Requests for Maintenance (\$1,000)		Maintenance Needs
	Total	Packages \$	
Navigation	\$7,372	\$750	Replace Elevator and Components - Pike Island Lock and Dam
		\$6,622	Replace Hydraulic System - Pike Island Lock and Dam

**Additional Information**

- 2019 lock tonnage (in thousands) 27,567
- National Rank (tons): 22
- Current Miter Gates In Service Date:  
Main: 2011 Auxiliary: 1963
- Projected Year Lock Miter Gates Reach  
"F" Condition: Main 2084 Auxiliary: 2071
- Projected Miter Gate Replacement:  
Main: 2089 Auxiliary: 2073
- Fee Lands: 129.67 acres
- Flowage Easement Lands: 580.66 acres

**Congressional Interests**

- Senator Sherrod Brown, D-OH
- Senator Robert Portman, R-OH
- Senator Joe Manchin, D-WV
- Senator Shelley Moore Capito, R-WV
- Representative Bill Johnson, R-OH-06
- Representative David McKinley, R-WV-01