MONONGAHELA RIVER BASIN

LAKES AND RESERVOIRS IN MONONGAHELA RIVER BASIN

03055500 TYGART LAKE.--Lat 39°18'50", long 80°02'00", Taylor County, W. Va., Hydrologic Unit 05020001, at dam on Tygart Valley River, 2.2 mi upstream from Threefork Creek, and 2.4 mi upstream from Grafton, W. Va. DRAINAGE AREA, 1,184 mi^2. PERIOD OF RECORD, April 1938 to current year. Prior to October 1960 published as "*Tygart Reservoir*". GAGE, water-stage recorder. Datum of gage is at sea level.

REMARKS.--Lake is formed by concrete gravity dam completed and accepted February 1938, storage began May 15, 1938. Capacity, 285,000 acre-ft (from sedimentation resurvey made in 1959) between elevations 991.5 ft (sill of valves) and 1,167.0 ft (crest of spillway) above sea level. Dead storage, 2,700 acre-ft. Figures given herein represent total contents. Conservation pool elevation is 1,010.0 ft and water below elevation 991.5 ft cannot be withdrawn. Lake is used for flood control, for supplementary supply for navigation on Monongahela River during periods of low flow, and for recreation.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 255,680 acre-ft, Nov. 7, 1985, elevation, 1,156.69 ft; minimum since October 1939, 8,330 acre-ft, Jan. 25, 1940, elevation, 1,005.15 ft.

EXTREMES FOR CURRENT YEAR.--Records not furnished to determine extremes for current year.

03076000 DEEP CREEK RESERVOIR.--Lat 39°30'34", long 79°23'28", Garrett County, Md., Hydrologic Unit 05020006, on Deep Creek at dam, 1.8 mi upstream from mouth, and 7 mi north of Oakland, Md. DRAINAGE AREA, 64.7 mi^2. PERIOD OF RECORD, July 1925 to current year. Prior to October 1950, monthend contents published in WSP 1305, and October 1950 to September 1955, monthend contents published in WSP 1385. GAGE, water-stage recorder at right end of spillway. Datum of gage is at sea level (unadjusted).

REMARKS.--Reservoir is formed by an earthfill dam completed January 1925. Usable capacity, 92,975 acre-ft between elevations 2,425 ft (top of intake to outlet tunnel) and 2,462 ft (crest of spillway). Dead storage, 13,085 acre-ft. Figures given herein represent usable contents. Reservoir is used for hydroelectric power.

COOPERATION.--Records furnished by Reliant Energy.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 93,800 acre-ft, July 14, 1990, elevation, 2,462.25 ft; minimum observed, 11,760 acre-ft, Sept. 30, 1925, elevation, 2,433.45 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 91,900 acre-ft, June 8, elevation, 2,461.70 ft; minimum 69,800 acre-ft, Jan. 2, elevation, 2,455.60 ft.

03077000 YOUGHIOGHENY RIVER LAKE.--Lat 39°47'56", long 79°22'06", Somerset County, Hydrologic Unit 05020006, remote control recorder at control house at dam, 1.2 mi upstream from Confluence, Pa., since June 1951. Water- stage recorder and transmitter at lat 39`45'21", long 79`24'00", at bridge on U.S. Highway 40, 500 ft upstream from Stuck Hollow Run, 0.6 mi upstream from Tub Run, on Youghiogheny River, 7.5 mi upstream from Youghiogheny River Dam, Pa. DRAINAGE AREA, 434 mi^2. PERIOD OF RECORD, October 1943 to current year. Prior to October 1970 published as "Youghiogheny River Reservoir." GAGE, water-stage recorder. Datum of gage is at sea level. Prior to Mar. 9, 1948, non-recording gage at dam at same datum. Mar. 9, 1948 to present, water-stage recorder also at transmitter site at datum.

REMARKS.--Lake is formed by a rock-faced earthfill dam with uncontrolled side channel spillway. Storage began during construction and lake acted as a retention basin from December 1942 to December 1947. Dam became fully operational in January 1948. Lake first reached minimum pool elevation, 1,344.0 ft (capacity, 5,230 acre-ft) in December 1942. Capacity 254,000 acre-ft between elevations 1,319.50 ft (invert at intake to outlet tunnel) and 1,470.00 ft (full pool). Winter low-water pool elevation is 1,419.0 ft, capacity, 103,000 acre-ft. Summer pool normally occurs during period Mar. 15 to Apr. 15. Depletion of low-water storage for Youghiogheny River flow augmentation occurs normally during the period July through November. Figures given herein represent total contents. Lake is used for flood control, for low-flow augmentation of Youghiogheny River and downstream rivers, and for recreation.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 222,610 acre-ft, May 16, 1967, elevation, 1,460.95; minimum (after dam became fully operational), 3,700 acre-ft, Oct. 31, 1946, elevation 1,340.30 ft.

EXTREMES FOR CURRENT YEAR.--Records not furnished to determine extremes for current year.

MONONGAHELA RIVER BASIN

Lakes and Reservoirs in Monongahela River Basin--Continued

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS AT 2400 HRS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	03055500 Tygart Lake Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in ft^3/s)	03076000 Deep Creek Reservoir Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in ft^3/s)
Sept. 30	1,099.12	120,420	---	2,458.10	78,600	---
Oct. 31	1,064.67	66,200	-882	2,456.70	73,600	-81
Nov. 30	1,051.08	48,950	-290	2,455.80	70,500	-52
Dec. 31	1,042.04	38,850	-164	2,455.70	70,100	-6.5
CAL YR 2000	--	--	+14	--	--	-1.4
Jan. 31	1,060.65	60,850	+358	2,456.10	71,500	+23
Feb. 28	1,043.38	40,290	-370	2,458.10	78,600	+128
Mar. 31	1,072.12	76,490	+589	2,459.80	84,800	+101
Apr. 30	1,095.19	113,340	+619	2,461.10	89,600	+81
May 31	1,094.41	111,970	-22	2,461.20	90,000	+6.5
June 30	1,095.12	113,210	+21	2,460.90	88,900	-18
July 31	1,115.06	151,220	+618	2,460.00	85,500	-55
Aug. 31	1,093.68	110,700	-659	2,458.80	81,100	-72
Sept. 30	1,083.06	93,140	-295	2,457.40	76,100	-84
WTR YR 2001	--	--	-38	--	--	-3.5

Date	03077000 Youghiogheny River Lake Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in ft^3/s)
Sept. 30	1,397.94	58,170	---
Oct. 31	1,382.30	35,920	-362
Nov. 30	1,376.60	29,350	-110
Dec. 31	1,395.04	53,770	+397
CAL YR 2000	--	--	+4.8
Jan. 31	1,394.95	53,630	-2.3
Feb. 28	1,425.18	115,070	+1,110
Mar. 31	1,439.22	152,420	+607
Apr. 30	1,439.90	154,350	+32
May 31	1,441.42	158,710	+71
June 30	1,440.13	155,000	-62
July 31	1,439.99	154,600	-6.5
Aug. 31	1,423.75	111,560	-700
Sept. 30	1,406.97	74,840	-617
WTR YR 2001	--	--	+23