

LEHIGH RIVER BASIN

LAKES AND RESERVOIRS IN LEHIGH RIVER BASIN

- 01447780 FRANCIS E. WALTER RESERVOIR** (formerly published as Bear Creek Reservoir)--Lat 41°06'45", long 75°43'15", Luzerne County, Hydrologic Unit 02040106, at dam on Lehigh River, 2,200 ft downstream from Bear Creek, and 5.0 mi northeast of White Haven. DRAINAGE AREA, 289 mi². PERIOD OF RECORD, February 1961 to current year. GAGE, water-stage recorder (U.S. Army Corps of Engineers datum).
REMARKS.--Reservoir formed by an earthfill embankment covered with a rock shell, with concrete spillway at elevation 1,450.0 ft. Storage began Feb. 17, 1961; reservoir first reached conservation pool in June 1961. Total capacity (elevation 1,450.0 ft) is 110,700 acre-ft of which 108,700 acre-ft is controlled storage above elevation 1,300.0 ft, (conservation pool). Dead storage is 2,000 acre-ft. Flow regulated by three gates and low-flow by-pass system. Reservoir is used for flood control and recreation. Satellite telemetry at station.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 62,100 acre-ft, Sept. 28, 1985, elevation, 1,417.08 ft; minimum contents (after establishment of conservation pool), 980 acre-ft, July 6, 1982, elevation, 1,287.70 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 29,720 acre-ft, Sept. 24, elevation, 1,383.34 ft; minimum contents, 1,420 acre-ft, Mar. 8, elevation, 1,295.03 ft.
- 01449400 PENN FOREST RESERVOIR**--Lat 40°55'45", long 75°33'45", Carbon County, Hydrologic Unit 02040106, at dam on Wild Creek, 0.7 mi upstream from hatchery, 2.6 mi upstream from Wild Creek Dam, 4.4 mi upstream from mouth, and 10.0 mi northeast of Palmerton. DRAINAGE AREA, 16.5 mi². PERIOD OF RECORD, October 1958 to current year. GAGE, water-stage recorder. Datum of gage is sea level (levels by city of Bethlehem).
REMARKS.--Reservoir formed by an earthfill dam with ungated concrete spillway at elevation 1,000.00 ft (capacity, 19,980 acre-ft). Storage began October 1958. Reservoir is used for municipal water supply. Regulation by valves on pipe through dam. Figures given herein represent total contents and include diversion since October 1969 from Tunkhannock Creek Basin to Wild Creek Basin. Reservoir out of service all year.
COOPERATION.--Records provided by city of Bethlehem.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 20,800 acre-ft, Apr. 16, 1983, elevation, 1,001.69 ft; minimum contents, 0 acre-ft, many days during 1996, 1997, and 1998 water years, elevation, 890.60 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,890 acre-ft, June 7, elevation, 982.63 ft; minimum contents, 0 acre-ft, Oct. 1 to Jan. 25.
- 01449700 WILD CREEK RESERVOIR**--Lat 40°53'50", long 75°33'50", Carbon County, Hydrologic Unit 02040106, at dam on Wild Creek, 1.6 mi upstream from mouth, 2.4 mi south of hatchery, and 7.5 mi northeast of Palmerton. DRAINAGE AREA, 22.2 mi². PERIOD OF RECORD, January 1941 to current year. GAGE, nonrecording gage. Datum of gage is sea level (levels by city of Bethlehem).
REMARKS.--Reservoir formed by earthfill dam with concrete ungated spillway at elevation 820.00 ft. Storage began January 27, 1941; reservoir first reached minimum contents pool elevation in February 1941. Total capacity at elevation 820.00 ft is 12,500 acre-ft of which 12,000 acre-ft is controlled storage. Reservoir is used for municipal water supply. Regulation by valves on pipe through dam. Figures given herein represent usable contents and include diversion since October 1969 from Tunkhannock Creek Basin to Wild Creek Basin.
COOPERATION.--Records provided by city of Bethlehem.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 12,880 acre-ft, May 23, 1942, elevation, 822.93 ft; minimum contents (after first filling), 2,680 acre-ft, Nov. 15, 1966, elevation, 774.10 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 9,650 acre-ft, Oct. 1, elevation, 811.20 ft; minimum contents 7,150 acre-ft, Jan. 14, elevation 800.58 ft.
- 01449790 BELTZVILLE LAKE**--Lat 40°50'56", long 75°38'19", Carbon County, Hydrologic Unit 02040106, at dam on Pohopoco Creek, 0.4 mi upstream from gaging station on Pohopoco Creek, 0.6 mi upstream from Sawmill Run, and 2.3 mi northeast of Parryville. DRAINAGE AREA, 96.3 mi². PERIOD OF RECORD, February 1971 to current year. GAGE, water-stage recorder (U.S. Army Corps of Engineers datum).
REMARKS.--Lake formed by an earth and rockfill dam with ungated, partially lined spillway at an elevation of 651.00 ft. Storage began Feb. 8, 1971. Capacity at elevation 651.00 ft is 68,300 acre-ft. Ordinary minimum contents (conservation) pool elevation is 628.00 ft, capacity, 41,250 acre-ft. Dead storage is 1,390 acre-ft. Lake is used for recreation, flood control, low-flow augmentation, and water supply. Figures given herein represent total contents. Regulation is accomplished by a multi-level water-quality outlet system, and two flood-control gates.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 49,730 acre-ft, Jan. 29, 1976, elevation, 636.30 ft; minimum contents, 15,110 acre-ft, Mar. 31, 1983, elevation, 588.79 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,320 acre-ft, Jan. 25, elevation, 631.12 ft; minimum contents, 31,790 acre-ft, Sept. 15, elevation, 616.92 ft.

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Lakes and Reservoirs in Lehigh River Basin--Continued

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS AT 2400 HRS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)
<u>01447780 Francis E. Walter Reservoir</u>				<u>01449400 Penn Forest Reservoir</u>		
Sept. 30	1,300.54	1,840	--	--	0	--
Oct. 31	1,301.06	1,890	+0.8	--	0	0
Nov. 30	1,304.67	2,210	+5.4	--	0	0
Dec. 31	1,300.24	1,820	-6.3	--	0	0
CAL YR 1998	--	--	+0.1	--	--	0
Jan. 31	1,302.33	2,000	+2.9	933.20	1,990	+32.4
Feb. 28	1,301.96	1,970	-0.5	957.03	5,780	+68.2
Mar. 31	1,301.05	1,890	-1.3	971.90	9,440	+59.5
Apr. 30	1,300.69	1,860	-0.5	980.28	12,060	+44.0
May 31	1,303.94	2,150	+4.7	982.52	12,850	+12.8
June 30	1,298.71	1,700	-7.6	980.88	12,270	-9.7
July 31	1,301.74	1,950	+4.1	976.72	10,900	-22.3
Aug. 31	1,311.42	2,980	+16.8	973.18	9,810	-17.7
Sept. 30	1,377.83	25,830	+384	972.93	9,740	-1.2
WTR YR 1999	--	--	+33.1	--	--	+13.5
<u>01449700 Wild Creek Reservoir</u>				<u>01449790 Beltzville Lake</u>		
Sept. 30	811.33	9,690	--	623.49	37,120	--
Oct. 31	808.88	9,060	-10.2	622.31	36,110	-16.4
Nov. 30	805.04	8,180	-14.8	621.92	35,780	-5.5
Dec. 31	801.04	7,260	-15.0	621.77	35,650	-2.1
CAL YR 1998	--	--	-0.4	--	--	-7.6
Jan. 31	808.48	8,970	+27.8	627.84	41,100	+88.6
Feb. 28	808.05	8,870	-1.8	628.07	41,320	+4.0
Mar. 31	806.96	8,620	-4.1	627.99	41,240	-1.3
Apr. 30	805.50	8,280	-5.7	627.98	41,230	-0.2
May 31	805.65	8,320	+0.7	628.35	41,580	+5.7
June 30	805.76	8,340	+0.3	628.28	41,520	-1.0
July 31	805.88	8,370	+0.5	622.38	36,170	-87.0
Aug. 31	805.21	8,220	-2.4	618.02	32,620	-57.7
Sept. 30	805.36	8,250	+0.5	619.85	34,080	+24.5
WTR YR 1999	--	--	-2.0	--	--	-4.2