



Water-Data Report 2007

**03012520 ALLEGHENY RESERVOIR**

Allegheny Basin  
Upper Allegheny Subbasin

LOCATION.--Lat 41°50'17", long 79°00'10" referenced to North American Datum of 1927, Warren County, PA, Hydrologic Unit 05010001, in Allegheny National Forest, at control house at Kinzua Dam on Allegheny River, 3 mi upstream from Hemlock Run, and 7 mi east of Warren.

DRAINAGE AREA.--2,180 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1965 to current year. Prior to October 1966 published as Allegheny River Reservoir.

GAGE.--Water-stage recorder. Datum of gage is sea level. Reservoir is formed by a concrete gravity dam with a gated spillway and with an earthfill section, rockfaced, at right side. Storage began during construction and reservoir acted as retention basin from October 1965 to December 1966. Dam became operational in January 1967. Reservoir first reached minimum pool elevation during period of construction. Capacity, 1,180,000 acre-ft between elevations 1,205.0 ft (invert of low level sluices) and 1,365.0 ft (full pool). Dead storage is 128 acre-ft. Minimum pool elevation, 1,240 ft (capacity, 24,240 acre-ft). Winter low-water pool elevation, 1,292 ft (capacity, 239,780 acre-ft). Summer low-water pool elevation, 1,328 ft (capacity, 572,610 acre-ft). Storage to summer pool normally occurs during period April to May. Depletion of low-water storage for augmenting flow in Allegheny River normally occurs during period July to December. Figures given herein represent total contents. Reservoir is used for flood control, low-flow augmentation and water-quality control of Allegheny River and downstream rivers, power generation, and recreation. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the U.S. Army Corps of Engineers, Pittsburgh District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,121,120 acre-ft, Jun 27,1972, elevation, 1,362.20 ft; minimum (after first filling), 113,310 acre-ft, Jan 26, 1968, elevation 1,268.68 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 671,584 acre-ft, Oct. 30, elevation, 1335.72 ft; minimum, 310,430 acre-ft, Feb 7, elevation 1,301.69 ft.

MONTH-END ELEVATION ABOVE SEA LEVEL, AND CONTENTS AT 2400 HOURS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Date	Elevation, in ft	Contents, in acre-ft	Change in contents, in ft <sup>3</sup> /s
Sep 30	1,329.26	588,000	
Oct 31	1,334.96	661,330	+1,190
Nov 30	1,315.93	439,570	-3,730
Dec 31	1,306.31	349,210	-1,470
CAL YR 2006			+35
Jan 31	1,304.83	336,450	-208
Feb 28	1,302.56	317,500	-341
Mar 31	1,330.96	609,210	+4,740
Apr 30	1,329.90	595,910	-224
May 31	1,328.68	580,890	-244
Jun 30	1,325.78	546,280	-581
Jul 31	1,321.42	497,150	-799
Aug 31	1,322.73	511,570	+235
Sep 30	1,318.50	465,990	-766
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