



Water-Data Report 2006

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 mi².

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, 650,410 acre-ft, Sep 4, elevation, 1,333.14 ft; minimum, 288,510 acre-ft, Dec 21, elevation 1,298.89 ft.

MONTH-END ELEVATION ABOVE SEA LEVEL, AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Elevation, in ft	Contents, in acre-ft	Change in contents, in ft ³ /s
Sep 30	1,321.70	500,210	
Oct 31	1,311.35	394,900	-1,710
Nov 30	1,311.67	397,910	+51
Dec 31	1,303.34	323,920	-1,200
CAL YR 2005			+30
Jan 31	1,305.32	340,640	+272
Feb 28	1,303.56	325,750	-268
Mar 31	1,319.67	478,320	+2,480
Apr 30	1,329.49	590,840	+1,890
May 31	1,329.39	589,610	-20
Jun 30	1,330.35	601,550	+201
Jul 31	1,330.61	604,820	+53
Aug 31	1,329.33	588,860	-260
Sep 30	1,329.26	588,000	-14
WTR YR 2006			+121