



Water-Data Report 2007

01517900 TIOGA LAKE AT TIOGA DAM, PA

Upper Susquehanna Basin
Tioga Subbasin

LOCATION.--Lat 41°53'57", long 77°08'21" referenced to North American Datum of 1927, Tioga County, PA, Hydrologic Unit 02050104, at Tioga Dam on Tioga River, 0.8 mi south of Tioga, and 1.7 mi upstream from Crooked Creek.

DRAINAGE AREA.--280 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is U.S. Army Corps of Engineers local project datum. Prior to water year 2007, the datum was incorrectly reported as NGVD 1929. Satellite and landline telemetry at station.

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

REMARKS.--Reservoir is formed by rolled earth and rockfill dam. Flood flows are routed to Hammond Lake through a connecting channel with weir at elevation 1,101.0 ft and to Hammond Dam spillway with crest at elevation 1,131.0 ft. Storage began in November 1979. Capacity at elevation 1,131.0ft is 62,000 acre-ft. Recreation lake elevation is 1,081.0 ft, capacity 9,500 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two service gates and low-flow by-pass system.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 50,090 acre-ft, Apr 3, 1993, elevation, 1,123.21 ft; minimum, 2,210 acre-ft, Oct 25, 1980, elevation, 1,060.05 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 20,410 acre-ft, Mar 16, elevation, 1,097.35 ft; minimum, 9,090 acre-ft, Sep 30, elevation, 1,080.09 ft.

MONTHEND ELEVATION 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 ³ /s
Sep 30	1,081.04	9,520	
Oct 31	1,082.09	10,040	+8.5
Nov 30	1,082.80	10,400	+6.1
Dec 31	1,083.00	10,500	+1.6
CAL YR 2006			-0.7
Jan 31	1,081.93	9,960	-8.8
Feb 28	1,080.72	9,370	-10.6
Mar 31	1,081.38	9,690	+5.2
Apr 30	1,081.04	9,520	-2.9
May 31	1,081.10	9,550	+0.5
Jun 30	1,081.68	9,830	+4.7
Jul 31	1,081.55	9,770	-1.0
Aug 31	1,081.27	9,630	-2.3
Sep 30	1,080.10	9,090	-9.1
WTR YR 2007			-0.6