

01517900 TIOGA LAKE AT TIOGA DAM AT TIOGA, 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. Funding for this station provided by the U.S. Army Corps of Engineers, Baltimore District.

REMARKS.--Reservoir is formed by rolled earth and rockfill dam. Flow is regulated by two service gates and two low flow water-quality gates. Tioga Lake is connected to Hammond Lake by a connecting channel that contains two gates and an overflow weir at elevation 1,101.00 ft. It is possible for flow to go in either direction depending on the head difference in the two lakes. Storage began in November 1979. Capacity at elevation 1,131.00 ft is 62,300 acre-ft. Recreation lake elevation is 1,081.0 ft, capacity 9,945 acre-ft. Reservoir is used for flood control, recreation, and water quality. Figures given herein represent total contents.

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, 18,520 acre-ft, Jan 31, elevation, 1,094.44 ft; minimum, 9,720 acre-ft, Apr 12, elevation, 1,080.53 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Date	Elevation, in ft	Contents, in acre-ft	Change in contents, in ft ³ /s
Sep 30	1,081.15	10,020	
Oct 31	1,083.27	11,150	+18.4
Nov 30	1,083.11	11,060	-1.5
Dec 31	1,082.90	10,950	-1.8
CAL YR 2012			0.0
Jan 31	1,094.24	18,360	+121
Feb 28	1,082.36	10,650	-139
Mar 31	1,081.96	10,430	-3.6
Apr 30	1,082.10	10,510	+1.3
May 31	1,081.88	10,390	-2.0
Jun 30	1,081.66	10,280	-1.8
Jul 31	1,081.68	10,290	+0.2
Aug 31	1,082.12	10,520	+3.7
Sep 30	1,081.01	9,950	-9.6
WTR YR 2013			-0.1