

Water-Data Report 2012

01470870 BLUE MARSH LAKE NEAR BERNVILLE, PA

Lower Delaware Basin
Schuylkill Subbasin

LOCATION.--Lat 40°22'45", long 76°01'59" referenced to North American Datum of 1927, Berks County, PA, Hydrologic Unit 02040203, at dam on Tulpehocken Creek, 0.8 mi upstream from gaging station on Tulpehocken Creek (station 01470960), 1.0 mi northeast of Blue Marsh, 1.9 mi upstream from Rebers Bridge, and 5.1 mi southeast of Bernville.

DRAINAGE AREA.--175 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder (U.S. Army Corps of Engineers datum). 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, Philadelphia District.

REMARKS.--Lake formed by earthfill dam with ungated concrete spillway at elevation 307.00 ft. Storage began April 23, 1979. Records from April 1979 to September 2010 use original storage capacity table, where capacity at elevation 307.00 ft is 50,000 acre-ft and dead storage is 3,000 acre-ft. Records from October 2010 to current use a revised capacity table, where capacity at elevation 307.00 ft is 42,800 acre-ft and dead storage is 2,560 acre-ft. Lake is used for flood control, water supply, and recreation. Figures herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 54,900 acre-ft, Jun 28, 2006, elevation, 309.19 ft; maximum elevation 309.37 ft Sep 9, 2011; minimum contents (after first filling), 13,150 acre-ft, Mar 18, 1994, elevation, 279.88 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 23,000 acre-ft, Jun 2, elevation, 292.76 ft; minimum contents, 15,800 acre-ft, Nov 6, 7, minimum elevation, 284.50 ft, Nov 7.

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Date	Elevation, in ft	Contents, in acre-ft	Change in contents, in ft ³ /s
Sep 30	290.19	20,400	
Oct 31	285.33	16,400	-65
Nov 30	284.98	16,100	-5.0
Dec 31	285.68	16,700	+9.8
CAL YR 2011			+0.7
Jan 31	285.42	16,500	-3.2
Feb 29	285.25	16,400	-1.7
Mar 31	285.93	16,900	+8.1
Apr 30	289.69	20,000	+52.1
May 31	290.11	20,300	+4.9
Jun 30	290.23	20,400	+1.7
Jul 31	290.27	20,500	+1.6
Aug 31	290.00	20,200	-4.9
Sep 30	290.03	20,200	0.0
WTR YR 2012			-0.3