



Water-Data Report 2007

03027000 EAST BRANCH CLARION RIVER LAKE, PA

Allegheny Basin
Clarion Subbasin

LOCATION.--Lat 41°33'35", long 78°35'40" referenced to North American Datum of 1927, Elk County, PA, Hydrologic Unit 05010005, gage house in control tower at East Branch Clarion River Dam on East Branch Clarion River, 1.7 miles northeast of Glen Hazel, and 7.5 miles upstream from confluence with West Branch Clarion River.

DRAINAGE AREA.--72.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1952 to current year. Prior to October 1970 published as "East Branch Clarion River Reservoir".

GAGE.--Water-stage recorder. Datum of gage is sea level (U.S. Army Corps of Engineers bench mark). 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.

REMARKS.--Lake is formed by an earthfill dam rock-faced. Dam completed in 1952. Controlled storage began in June 1952. Capacity, 83,300 acre-ft between elevations 1,555 ft (sill of outlet gates) and 1,685 ft (full pool). Minimum pool elevation, 1,555 ft (capacity, 1,000 acre-ft). Winter low-water pool elevation, 1,651 ft (capacity, 45,600 acre-ft). Summer low-water pool elevation, 1,670 ft (capacity, 65,300 acre-ft). Storage to summer pool normally occurs during period Mar 1 to Apr 30. Depletion of low-water storage for augmenting flow in Clarion River occurs normally during period June to Oct. Figures herein represent total contents. Lake is used for flood control, for low-flow augmentation of Clarion River and downstream rivers, and for recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 85,010 acre-ft, Jun 24, 1972, elevation 1,685.55 ft; minimum, 850 acre-ft (Result of dam inspection), Nov 9, 1957, elevation, 1,553.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 67,513 acre-ft, May 6, elevation, 1,671.88 ft; minimum, 41,260 acre-ft, Sep 30, elevation, 1,646.19 ft.

MONTHEND 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 ³ /s
Sep 30	1,658.35	52,670	
Oct 31	1,658.21	52,520	-2.4
Nov 30	1,650.79	45,360	-120
Dec 31	1,650.77	45,350	-0.16
CAL YR 2006			+0.1
Jan 31	1,651.36	45,890	+8.8
Feb 28	1,649.79	44,450	-25.9
Mar 31	1,668.53	63,620	+312
Apr 30	1,671.50	67,060	+57.8
May 31	1,669.29	64,490	-41.8
Jun 30	1,666.22	61,020	-58.3
Jul 31	1,659.45	53,790	-118
Aug 31	1,655.53	49,860	-63.9
Sep 30	1,646.19	41,260	-145
WTR YR 2007			-15.8