



Water-Data Report 2006

**03609000 KENTUCKY LAKE AT GILBERTSVILLE, KY**

Lower Tennessee Basin  
Lower Tennessee Subbasin

LOCATION.--Lat 37°00'49", long 88°16'06" referenced to North American Datum of 1927, Marshall County, KY, Hydrologic Unit 06040006, at Kentucky Dam on Tennessee River at Gilbertsville, KY, and at mile 22.4.

DRAINAGE AREA.--40,200 mi<sup>2</sup>, approximately.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level.

COOPERATION.--Records furnished by Tennessee Valley Authority.

REMARKS.--Reservoir is formed by concrete dam with 24 lift gates 50 ft high by 40 ft wide. Storage began Aug. 16, 1944, and final closure was Aug. 30, 1944. Water in reservoir reached minimum pool elevation Apr. 7, 1945. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 375.0 ft, top of gages, is 3,090,000 cfs-days, of which 2,020,700 cfs-days is controlled storage above 354.0 ft, ordinary minimum pool. Reservoir is used for navigation, flood control, and power. Barkley-Kentucky Canal opened July 13, 1966, for navigation and power use. Canal is 1.75 miles long and interconnects Lake Barkley and Kentucky Lake at a point 2.2 mi upstream from Barkley Dam. For daily discharges through the canal, see Kentucky reports. Monthend elevation and contents at 2400, for the water year are provided in the following table.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
Sept. 30...	355.13	1,142,900	
Oct. 31...	354.57	1,102,100	-40,800
Nov. 30...	354.96	1,141,200	+39,100
Dec. 31...	354.60	1,109,000	-32,200
CALENDAR YEAR			-63,900
Jan. 31...	354.47	1,153,200	+44,200
Feb. 28...	354.60	1,133,800	-19,400
Mar. 31...	355.36	1,151,400	+17,600
Apr. 30...	359.27	1,436,800	+285,400
May 31...	359.43	1,452,400	+15,600
June 30...	359.17	1,436,800	-15,600
July 31...	357.89	1,352,000	-84,800
Aug. 31...	356.75	1,271,200	-80,800
Sept. 30...	355.22	1,159,600	-111,600
WATER YEAR			+16,700

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.87 ft, May 24, 1983; minimum after first filling, 348.02 ft, Mar. 11, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 1,493,000 cfs-days, May 5; maximum elevation, 359.76 ft, Apr. 30; minimum midnight contents, 1,081,400 cfs-days, Jan. 4; minimum elevation, 353.56 ft, Mar. 13.