



Water-Data Report 2007

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 mi², 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. 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 2006 TO SEPTEMBER 2007

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
Sept. 30...	355.22	1,159,600	
Oct. 31...	354.90	1,147,200	-12,400
Nov. 30...	354.45	1,113,700	-33,500
Dec. 31...	355.35	1,160,100	+46,400
CALENDAR YEAR			+51,100
Jan. 31...	355.18	1,171,100	+11,000
Feb. 28...	355.91	1,186,200	+15,100
Mar. 31...	355.93	1,189,100	+2,900
Apr. 30...	359.45	1,451,000	+261,900
May 31...	358.55	1,390,100	-60,900
June 30...	358.32	1,379,300	-10,800
July 31...	356.94	1,279,600	-99,700
Aug. 31...	356.59	1,252,700	-26,900
Sept. 30...	355.52	1,168,400	-84,300
WATER YEAR			+8,800

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, 1,488,700 cfs-days, May 7; maximum elevation, 359.98 ft, May 8; minimum midnight contents, 1,078,600 cfs-days, Oct. 8; minimum elevation, 354.08 ft, Jan. 16.