



Water-Data Report 2007

**03413500 LAKE CUMBERLAND NEAR JAMESTOWN, KY**

Upper Cumberland Basin  
Upper Cumberland-Lake Cumberland Subbasin

LOCATION.--Lat 36°52'09", long 85°08'45" referenced to North American Datum of 1927, Russell County, KY, Hydrologic Unit 05130103, in pylon of Wolf Creek Dam on Cumberland River and 10 mi southwest of Jamestown, KY.

DRAINAGE AREA.--5,789 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1950 to current year. Prior to October 1954, published as Wolf Creek Reservoir. April to June 1950, published in WSP 1726.

GAGE.--Water-stage recorder. Datum of gage is Sandy Hook datum. Prior to Dec. 6, 1950, nonrecording gage at same site at datum 545.0 ft higher.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

REMARKS.--Reservoir is formed by earth embankment and concrete gravity dam surmounted by 10 taintor gates, each 37 ft high by 50 ft wide. Final closure of dam made Aug. 7, 1950. Total capacity at elevation 760.00 ft top of gates, is 3,070,000 cfs-days, of which 1,056,000 cfs-days above elevation 723.00 ft, crest of spillway, are reserved for flood control and 1,080,000 cfs-days between elevation 673.00 ft, minimum power pool, and 723.00 ft are used for power production. Figures given herein represent total contents, of which 934,000 cfs-days below elevation 673.00 ft is dead storage. Reservoir is used for flood control, power, navigation, and recreation. 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	702.00	1,515,900	
Oct. 31	700.86	1,490,700	-25,200
Nov. 30	698.36	1,436,200	-54,500
Dec. 31	690.93	1,279,800	-156,400
CALENDAR YEAR			52,300
Jan. 31	687.33	1,206,800	-73,000
Feb. 28	681.14	1,085,700	-121,100
Mar. 31	681.42	1,091,100	5,400
Apr. 30	681.05	1,084,000	-7,100
May 31	680.55	1,074,400	-9,600
June 30	680.43	1,072,100	-2,300
July 31	681.63	1,095,100	23,000
Aug. 31	679.93	1,062,600	-32,500
Sept. 30	679.07	1,046,300	-16,300
WATER YEAR			-469,600

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,811,000 cfs-days, May 13, 1984, elevation, 751.70 ft; minimum, first filling, 934,400 cfs-days, Jan. 1, 1956, elevation, 673.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,515,800 cfs-days, Oct. 1, elevation, 702.00 ft; minimum 1,046,300 cfs-days, Sept. 30, elevation, 679.07 ft.

REVISIONS.--WSP 1556: drainage area.