

03418400 CORDELL HULL RESERVOIR

Upper Cumberland Basin
Caney Subbasin

LOCATION.--Lat 36°17'23", long 85°56'39" referenced to North American Datum of 1927, Smith County, TN, Hydrologic Unit 05130108, at Cordell Hull Dam Cumberland River, 2.7 mi north of Carthage, and at mile 313.5.

DRAINAGE AREA.--8,095 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1972 to current year.

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

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

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankment. Spillway is equipped with five gates, each 41 ft high and 45 ft wide. Closure of dam was made Oct. 4, 1967; water in reservoir first reached ordinary minimum pool Mar. 13, 1973. Total capacity at elevation 508.0 ft, maximum surcharge pool, is 156,700 cfs-days, of which 53,400 cfs-days is controlled storage between elevations 508.0 ft and 499.0 ft, ordinary minimum pool. Contents of 5,000 cfs-days between 499.0 ft and 500.0 ft full winter pool, is available for power production. Contents of 48,400 cfs-days above 500.0 ft is available for flood control during the winter, and 26,100 cfs-days above 504.0 ft, full pool during spring to fall season, is available for flood control the rest of the year. Contents of 103,300 cfs-days below elevation 499.0 ft is dead storage. Reservoir is used for navigation, power, and flood control. 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...	504.29	132,400	
Oct. 31...	502.34	120,900	-11,500
Nov. 30...	500.43	110,600	-10,300
Dec. 31...	500.12	108,900	-1,700
CALENDAR YEAR			-2,100
Jan. 31...	499.75	107,000	-1,900
Feb. 28...	501.15	114,400	7,400
Mar. 31...	501.70	117,400	3,000
Apr. 30...	503.73	129,000	11,600
May 31...	504.29	132,400	3,400
June 30...	504.90	136,200	3,800
July 31...	504.85	135,900	-300
Aug. 31...	504.79	135,500	-400
Sept. 30...	503.79	129,400	-6,100
WATER YEAR			-3,000

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 156,700 cfs-days, Mar. 13, 1975, May 8, 1984, elevation, 508.00 ft; minimum, after first filling to ordinary minimum pool, 96,700 cfs-days, Apr. 18, 1974, elevation, 497.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 138,300 cfs-days, July 28, elevation, 505.23 ft; minimum, 103,700 cfs-days, Jan. 19, elevation, 499.09 ft.