

Water-Data Report 2007

**03493500 CHEROKEE LAKE**

French Broad-Holston Basin  
Holston Subbasin

LOCATION.--Lat 36°10'00", long 83°29'55" referenced to North American Datum of 1927, Jefferson County, TN, Hydrologic Unit 06010104, at Cherokee Dam on Holston River, 0.3 mi upstream from bridge on State Highway 92, 2.7 mi upstream from Mill Spring Creek, 2.8 mi north of Jefferson City, and at mile 52.3.

DRAINAGE AREA.--3,429 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 1941 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 riprapped earth embankments. Spillway equipped with nine radial gates, each 32 ft high by 40 ft wide. Storage began Dec. 5, 1941; water in reservoir first reached minimum pool elevation Jan. 6, 1942. Revised capacity table put into used Jan. 1, 1971. Total capacity at elevation 1,075.0 ft, top of gates, is 778,400 cfs-days, of which 580,300 cfs-days is controlled storage above elevation 1,020.0 ft, normal minimum pool. Reservoir is used for navigation, flood control, and power. 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...	1,057.24	534,700	
Oct. 31...	1,051.18	464,400	-70,300
Nov. 30...	1,042.34	372,900	-91,500
Dec. 31...	1,042.13	370,900	-2,000
CALENDAR YEAR			+34,600
Jan. 31...	1,040.59	356,400	-14,500
Feb. 28...	1,040.97	359,900	+3,500
Mar. 31...	1,048.65	436,900	+77,000
Apr. 30...	1,055.02	508,200	+71,300
May 31...	1,057.37	536,200	+28,000
June 30...	1,055.61	515,200	-21,000
July 31...	1,053.87	494,800	-20,400
Aug. 31...	1,042.36	373,100	-121,700
Sept. 30...	1,041.68	366,600	-6,500
WATER YEAR			-168,100

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 779,400 cfs-days, May 11, 1944, maximum elevation, 1,074.47 ft May 30, 1973; minimum after first filling, 48,400 cfs-days, Jan. 7, 1954, elevation, 980.77 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 548,000 cfs-days, June 11, elevation, 1,058.33 ft; minimum, 350,200 cfs-days, Feb. 23, elevation, 1,039.92 ft.