



Water-Data Report 2007

03566500 CHICKAMAUGA LAKE

Middle Tennessee-Hiwassee Basin
 Middle Tennessee-Chickamauga Subbasin

LOCATION.--Lat 35°06'07", long 85°13'42" referenced to North American Datum of 1927, Hamilton County, TN, Hydrologic Unit 06020001, at Chickamauga Dam on Tennessee River, 5.8 mi northeast of Chattanooga, 58.9 mi downstream from Watts Bar Dam, and at mile 471.0.

DRAINAGE AREA.--20,790 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 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 eighteen 2-section lift gates, each 40.44 ft high by 40 ft wide. Storage began Feb. 6, 1940; water in reservoir first reached minimum navigation pool elevation Mar. 10, 1940. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 685.44 ft, top of gates, is 372,600 cfs-days, of which 175,000 cfs-days is controlled flood storage above elevation 675.0 ft, minimum navigation 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...	682.04	305,700	
Oct. 31...	681.26	292,300	-13,400
Nov. 30...	676.51	219,400	-72,900
Dec. 31...	677.00	224,800	+5,400
CALENDAR YEAR			-600
Jan. 31...	678.00	240,300	+15,500
Feb. 28...	676.50	218,300	-22,000
Mar. 31...	677.13	227,300	+9,000
Apr. 30...	680.76	284,000	+56,700
May 31...	681.96	305,200	+21,200
June 30...	681.46	296,500	-8,700
July 31...	682.32	311,000	+14,500
Aug. 31...	681.72	301,400	-9,600
Sept. 30...	680.78	284,500	-16,900
WATER YEAR			-21,200

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 687.13 ft, May 7, 2003; minimum after first filling, 673.27 ft, Jan. 21, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 316,000 cfs-days, May 24; maximum elevation, 682.70 ft, May 18; minimum midnight contents, 205,600 cfs-days, Feb. 19; minimum elevation, 675.23 ft, Jan. 22. Contents based on backwater profile.