



Water-Data Report 2007

03570520 NICKAJACK LAKE

Middle Tennessee-Hiwassee Basin
Middle Tennessee-Chickamauga Subbasin

LOCATION.--Lat 35°00'07", long 85°37'14" referenced to North American Datum of 1927, Marion County, TN, Hydrologic Unit 06020001, at Nickajack Dam on Tennessee River, 2 mi upstream from Sequatchie River, 5 mi south of Jasper, 46.3 mi downstream from Chickamauga Dam, and at mile 424.7.

DRAINAGE AREA.--21,870 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1967 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 earth embankments on each side. The spillway, with crest at elevation 595.0 ft, is equipped with 10 radial gates, each 40 ft high by 40 ft wide. A trash gate, 5.5 ft high by 15 ft wide, is located between the spillway and powerhouse. Dam was completed and storage began on Dec. 14, 1967. Revised capacity table put into use Jan. 1, 1971. Total level pool capacity at elevation 635.0 ft, top of gates, is 127,200 cfs-days, of which 16,200 cfs-days is controlled storage above elevation 632.0 ft, ordinary minimum. Reservoir is used for navigation 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...	633.57	120,400	
Oct. 31...	634.05	123,300	+2,900
Nov. 30...	633.63	121,600	-1,700
Dec. 31...	634.05	123,300	+1,700
CALENDAR YEAR			+1,100
Jan. 31...	633.10	117,800	-5,500
Feb. 28...	634.06	121,700	+3,900
Mar. 31...	633.93	121,000	-700
Apr. 30...	633.48	118,600	-2,400
May 31...	633.96	121,200	+2,600
June 30...	633.85	120,600	-600
July 31...	634.21	122,700	+2,100
Aug. 31...	633.48	119,400	-3,300
Sept. 30...	633.89	120,800	+1,400
WATER YEAR			+400

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 634.99 ft, Apr. 19, 1969; minimum after first filling, 630.82 ft, Feb. 20, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 129,200 cfs-days, Jan. 8; maximum elevation, 634.81 ft, June 21; minimum midnight contents, 116,800 cfs-days, Aug. 8; minimum elevation, 632.39 ft, Jan. 10. Contents based on backwater profile.