



Water-Data Report 2007

03476000 SOUTH HOLSTON LAKE

French Broad-Holston Basin
South Fork Holston Subbasin

LOCATION.--Lat 36°31'15", long 82°05'11" referenced to North American Datum of 1927, Sullivan County, TN, Hydrologic Unit 06010102, 470 ft upstream from South Holston Dam on South Fork Holston River, 7.0 mi southeast of Bristol, Virginia-Tennessee, and at mile 49.8.

DRAINAGE AREA.--703 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to May 11, 1951, non-recording gage at same site and datum.

COOPERATION.--Records furnished by Tennessee Valley Authority.

REMARKS.--Reservoir is formed by rock and rolled earthfill dam. Spillway is uncontrolled morning-glory type, 128 ft in diameter with six piers, each 3 ft wide to guide flow spilling into a concrete-lined shaft and tunnel 34 ft in diameter. Closure of dam was made Nov. 20, 1950; water in reservoir first reached minimum pool elevation Jan. 25, 1951. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,742.00 ft, spillway crest, is 385,200 cfs-days, of which 220,800 cfs-days is controlled storage above elevation 1,675.00 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...	1,719.70	297,400	
Oct. 31...	1,716.51	286,200	-11,200
Nov. 30...	1,711.93	270,700	-15,500
Dec. 31...	1,708.34	258,900	-11,800
CALENDAR YEAR			+13,500
Jan. 31...	1,706.51	253,000	-5,900
Feb. 28...	1,706.42	252,700	-300
Mar. 31...	1,714.69	280,000	+27,300
Apr. 30...	1,722.13	306,100	+26,100
May 31...	1,722.10	306,000	-100
June 30...	1,716.29	285,400	-20,600
July 31...	1,712.53	272,700	-12,700
Aug. 31...	1,705.65	250,300	-22,400
Sept. 30...	1,697.59	225,500	-24,800
WATER YEAR			-71,900

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 363,800 cfs-days, May 10, 1984, elevation, 1,736.86 ft; minimum after first filling, 57,700 cfs-days, Jan. 13, 1956, elevation, 1,614.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 309,800 cfs-days, May 12, elevation 1,723.13 ft; minimum, 225,500 cfs-days, Sept. 30, elevation, 1,697.58 ft.