



Water-Data Report 2007

03487000 FORT PATRICK HENRY LAKE

French Broad-Holston Basin
South Fork Holston Subbasin

LOCATION.--Lat 36°29'53", long 82°30'32" referenced to North American Datum of 1927, Sullivan County, TN, Hydrologic Unit 06010102, at Fort Patrick Henry Dam on South Fork Holston River, 0.2 mi upstream from bridge on U.S. Highway 23, 4.5 mi southeast of Kingsport, and at mile 8.2.

DRAINAGE AREA.--1,903 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1953 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 gravity nonover-flow type concrete dam. Spillway is equipped with five radial gates, each 35 ft high by 35 ft wide. Storage began Oct. 27, 1953; water in reservoir first reached minimum pool elevation Dec. 8, 1953. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,263 ft, top of gates, is 13,600 cfs-days, of which 2,200 cfs-days is controlled storage above elevation 1,258 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...	1,261.66	13,000	
Oct. 31...	1,261.94	13,100	+100
Nov. 30...	1,260.24	12,400	-700
Dec. 31...	1,260.24	12,400	0
CALENDAR YEAR			-200
Jan. 31...	1,260.83	12,600	+200
Feb. 28...	1,261.27	12,800	+200
Mar. 31...	1,261.19	12,800	0
Apr. 30...	1,261.12	12,700	-100
May 31...	1,261.86	13,100	+400
June 30...	1,261.11	12,700	-400
July 31...	1,261.13	12,700	0
Aug. 31...	1,261.27	12,800	+100
Sept. 30...	1,261.77	13,000	+200
WATER YEAR			0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 14,000 cfs-days, Feb. 11, 1954, elevation, 1,263.80 ft, minimum after first filling, 2,300 cfs-days, Dec. 4, 2002, elevation, 1,223.86 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,600 cfs-days, May 25, elevation, 1,263.05 ft; minimum, 11,300 cfs-days, Jan. 5, elevation, 1,257.82 ft.