

Water-Data Report 2007

**03468500 DOUGLAS LAKE**

French Broad-Holston Basin  
Lower French Broad Subbasin

LOCATION.--Lat 35°57'40", long 83°32'20" referenced to North American Datum of 1927, Sevier County, TN, Hydrologic Unit 06010107, at Douglas Dam on French Broad River, 6.5 mi north of Sevierville, and at mile 32.3.

DRAINAGE AREA.--4,541 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level.

COOPERATION.--Records furnished by Tennessee Valley Authority.

REMARKS.--Reservoir formed by concrete main dam and 10 saddle dams. Spillway equipped with 11 radial gates, each 32 ft high by 40 ft wide and 8 sluice gates 10 ft high by 5.67 ft side. Closure of dam was made Feb. 19, 1943; water in reservoir first reached minimum pool elevation Feb. 25, 1943. Revised capacity table put into use Jan. 1, 1971. Total capacity at elevation 1,002.00 ft, top of gates, is 743,600 cfs-days, of which 631,200 cfs-days is controlled storage above elevation 940.00 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...	977.42	407,500	
Oct. 31...	970.05	330,200	-77,300
Nov. 30...	960.85	245,100	-85,100
Dec. 31...	956.65	211,000	-34,100
CALENDAR YEAR			+37,100
Jan. 31...	951.86	175,900	-35,100
Feb. 28...	951.78	175,400	-500
Mar. 31...	970.08	330,500	+155,100
Apr. 30...	977.34	406,600	+76,100
May 31...	981.35	452,300	+45,700
June 30...	975.76	389,400	-62,900
July 31...	973.57	366,100	-23,300
Aug. 31...	959.08	230,400	-135,700
Sept. 30...	953.12	184,800	-45,600
WATER YEAR			-222,700

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 760,000 cfs-days, July 25, 1949, elevation, 1,001.79 ft; minimum after first filling, 1,000 cfs-days, Jan. 16, 1956, elevation, 883.7 ft, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 459,700 cfs-days, May 28, elevation, 981.98 ft; minimum, 155,200 cfs-days, Feb. 10, elevation, 948.75 ft.