

03579000 WOODS RESERVOIR

Middle Tennessee-Elk Basin
Upper Elk Subbasin

LOCATION.--Lat 35°17'54", long 86°05'48" referenced to North American Datum of 1927, Franklin County, TN, Hydrologic Unit 06030003, at Elk River Dam on Elk River, 1.2 mi upstream from Spring Creek, 2.5 mi northeast of Estill Springs, 6.8 mi upstream from bridge on U.S. Highway 41-A, and at mile 170.0.

DRAINAGE AREA.--263 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1952 to current year.

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

COOPERATION.--Twice-daily gage readings (0600 and 2400 hours) furnished by U.S. Air Force.

REMARKS.--Reservoir is formed by concrete gravity and earthfill-type dam with riprapped embankments. Spillway equipped with three radial gates, each 25 ft high by 50 ft wide, and two sluice gates, each 6 ft high by 4 ft wide. Closure of dam was made May 1, 1952; water in reservoir first reached minimum pool elevation Feb. 6, 1953. Total capacity at elevation 962.0 ft, surcharge pool, is 44,400 cfs-days, of which 9,900 cfs-day is controlled storage above elevation 957.0 ft, normal minimum pool. Reservoir is used for cooling water, flood control, and recreational purposes. 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...	959.20	38,700	
Oct. 31...	958.74	37,800	-900
Nov. 30...	958.04	36,500	-1,300
Dec. 31...	958.20	36,800	300
CALENDAR YEAR			400
Jan. 31...	958.02	36,400	-400
Feb. 28...	958.07	36,500	100
Mar. 31...	959.53	39,300	2,800
Apr. 30...	959.47	39,200	-100
May 31...	959.40	39,100	-100
June 30...	959.57	39,400	300
July 31...	959.36	39,000	-400
Aug. 31...	959.23	38,700	-300
Sept. 30...	959.20	38,700	0
WATER YEAR			0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 42,300 cfs-days, April 21 and 22, 1956, elevation, 960.98 ft; minimum after first filling, 26,300 cfs-days, Nov. 8-11, 1953, elevation, 951.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum midnight contents, 39,800 cfs-days, Oct. 28, elevation, 959.79 ft; minimum midnight contents, 36,200 cfs-days, Dec. 21; elevation, 957.89 ft.