



Water-Data Report 2007

03580740 TIMS FORD LAKE

Middle Tennessee-Elk Basin
Upper Elk Subbasin

LOCATION.--Lat 35°11'51", long 86°16'41" referenced to North American Datum of 1927, Franklin County, TN, Hydrologic Unit 06030003, in intake tower near left bank at Tims Ford Dam on Elk River, 0.4 mi upstream from bridge on State Highway 50, 9.5 mi west of Winchester, and at mile 133.4.

DRAINAGE AREA.--529 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1970 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 compacted rockfill impervious earth core embankments. Spillway equipped with three radial gates, each 42 ft high by 40 ft wide. Storage began Dec. 1, 1970; water in reservoir first reached minimum pool elevation Feb. 23, 1971, and first filling was completed June 3, 1971. Total capacity at elevation 895 ft, top of gates, is 306,500 cfs-days, of which 142,400 cfs-days is controlled storage above elevation 865 ft, normal minimum pool. Reservoir is used for flood control, power, and recreation. 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...	884.00	246,400	
Oct. 31...	881.05	231,900	-14,500
Nov. 30...	878.37	219,300	-12,600
Dec. 31...	874.86	203,800	-15,500
CALENDAR YEAR			+14,900
Jan. 31...	874.70	203,100	-700
Feb. 28...	874.71	203,100	0
Mar. 31...	876.76	212,100	+9,000
Apr. 30...	879.76	225,700	+13,600
May 31...	880.10	227,300	+1,600
June 30...	879.36	223,900	-3,400
July 31...	879.00	222,200	-1,700
Aug. 31...	878.23	218,700	-3,500
Sept. 30...	877.74	216,500	-2,200
WATER YEAR			-29,900

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 303,900 cfs-days, Dec. 10, 2004, elevation, 894.55 ft; minimum after first filling 130,600 cfs-days, Dec. 1, 1997, elevation, 855.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 228,500 cfs-days, May 17, elevation, 880.35 ft; minimum, 196,600 cfs-days, Jan. 20, elevation, 873.18 ft.