

**03430050 J. PERCY PRIEST RESERVOIR**

Lower Cumberland Basin  
Stones Subbasin

LOCATION.--Lat 36°09'23", long 86°37'07" referenced to North American Datum of 1927, Davidson County, TN, Hydrologic Unit 05130203, on upstream face of J. Percy Priest Dam on Stones River, 2.6 mi east of Donelson, and 6.8 mi above mouth.

DRAINAGE AREA.--892 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--September 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Dec. 15, 1967, nonrecording gage at same site and datum.

COOPERATION.--Records furnished by U.S. Army Corps of Engineers.

REMARKS.--Reservoir is formed by concrete gravity dam with earth embankments. Spillway is equipped with four taintor gates, each 41 ft high by 45 ft wide. Closure of dam was made Sept. 18, 1967; water in reservoir first reached ordinary minimum pool May 15, 1968. Revised capacity table used after Sept. 30, 1970. Total capacity at elevation 504.5 ft, maximum controlled pool, is 328,700 cfs-days of which 193,600 cfs-days is controlled storage between elevations 504.5 ft and 480.0 ft, ordinary minimum pool. Contents of 17,200 cfs-days between elevations 480.0 ft and 483.0 ft, full winter pool, is available for power production. Contents of 176,400 cfs-days above 483.0 ft is available for flood control during the winter, and 131,100 cfs-days above 490.0 ft, full pool during spring-to-fall season, is available for flood control the rest of the year. Contents of 135,100 cfs-days below elevation 480.0 ft is dead storage. Reservoir is used for flood control, power, recreation, and wildlife. 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  
OCTOBER 2007

DATE	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
Sept. 30...	489.94	197,200	
Oct. 31...	488.81	189,200	-8,000
Nov. 30...	483.75	156,700	-32,500
Dec. 31...	483.78	156,900	200
CALENDAR YEAR			7,900
Jan. 31...	482.53	149,500	-7,400
Feb. 28...	484.40	160,700	11,200
Mar. 31...	484.90	163,800	3,100
Apr. 30...	487.95	183,400	19,600
May 31...	489.35	193,000	9,600
June 30...	489.40	193,400	400
July 31...	489.43	193,600	200
Aug. 31...	488.96	190,300	-3,300
Sept. 30...	488.86	189,600	-700
WATER YEAR			-7,600

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 336,600 cfs-days, May 9, 1984, elevation, 505.18 ft; minimum, after first filling to ordinary minimum pool, 109,500 cfs-days, Dec. 5, 1968, elevation, 474.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 197,000 cfs-days, Oct. 1, elevation, 489.92 ft, minimum, 148,100 cfs-days, Feb. 2, elevation, 482.29 ft.