



Water-Data Report 2010

03589000 WILSON LAKE NEAR FLORENCE, AL

Middle Tennessee-Elk Basin
Pickwick Lake Subbasin

LOCATION.--Lat 34°47'46", long 87°37'27" referenced to North American Datum of 1927, Colbert County, AL, Hydrologic Unit 06030005, at cooling-water intake at Wilson Dam on Tennessee River, 2.9 mi southeast of Florence, 4.1 mi upstream from Cypress Creek, 15.5 mi downstream from Wheeler Dam, and at river mile 259.4.

DRAINAGE AREA.--30,750 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1924 to current year. Prior to August 1926 monthend contents only, publish in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Reservoir is formed by concrete gravity dam with fixed ogee crest. Spillway equipped with 58 Stoney gates 20.54 ft high by 38 ft wide. Storage began Apr. 14, 1924. Revised capacity table used after Dec. 31, 1970. Total capacity at elevation 507.88 ft (top of gates) is 322,800 ft³/s-day of which 26,800 ft³/s-day is controlled flood storage above elevation 504.50 ft (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 329,800 ft³/s-day, Apr. 29, 1963; maximum elevation, 508.38 ft, May 19, 1983; minimum contents, 233,200 ft³/s-day, Apr. 6, 1927, elevation, 501.30 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents at midnight during year, unknown; maximum elevation, 507.82 ft, Aug 29; minimum contents at midnight, 299,100 ft³/s-day, Feb 20; minimum elevation, 504.71 ft., Dec 5.

MONTHEND ELEVATION AND CONTENTS AT MIDNIGHT
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Date	Elevation (feet)	Contents (ft ³ /s-day)	Change in contents (ft ³ /s-day)	Change in contents (cubic feet per second)
Sep 30	506.55	311,900	--	--
Oct 31	506.95	315,300	+3,400	+110
Nov 30	507.18	317,100	+1,800	+60
Dec 31	506.23	310,900	-6,200	-200
CAL YR 2009	--	--	+2,700	+7
Jan 31	506.18	310,600	-300	-10
Feb 28	506.11	308,400	-2,200	-79
Mar 31	505.80	306,000	-2,400	-77
Apr 30	506.79	313,900	+7,900	+263
May 31	507.19	317,100	+3,200	+103
Jun 30	507.13	316,600	-500	-17
Jul 31	506.96	315,300	-1,300	-42
Aug 31	507.22	317,400	+2,100	+68
Sep 30	507.20	317,200	-200	-7
WTR YR 2010	--	--	+5,300	+15