

Water-Data Report 2012

07324300 FOSS RESERVOIR NEAR FOSS, OK

Washita Basin
Washita Headwaters Subbasin

LOCATION.--Lat 35°32'20", long 99°11'09" referenced to North American Datum of 1927, in S ¼ sec.2, T.12 N., R.19 W., Custer County, OK, Hydrologic Unit 11130301, near right end of dam on Washita River, 0.5 mi upstream from Oak Creek, 3.5 mi west of Stafford, 6.0 mi north of Foss, and at mile 474.4.

DRAINAGE AREA.--1,473 mi² of which 12 mi² probably is noncontributing, revised. From automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1961 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to October, 1961, nonrecording gage at same site and datum.

COOPERATION.--Elevations and contents furnished by U.S. Army Corps of Engineers. Data on diversions provided by Foss Reservoir Master Conservancy District.

REMARKS.--Reservoir is formed by earth dam. Outlet consists of four 6- by 7-foot, 6-inch high pressure gates and one uncontrolled spillway. Storage began Feb. 13, 1961. Capacity, 436,500 acre-ft, at elevation 1,668.6 ft, crest of drop inlet and 177,900 acre-ft, at elevation 1,642.0 ft, conservation pool. Dead storage, 12,420 acre-ft below elevation 1,597.2 ft, sill of gated outlet. Figures given herein represent total contents. Reservoir is designed for flood control, municipal water supply, and irrigation release. Revised capacity table used after Sept. 30, 1964. U.S. Army Corps of Engineers' telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 226,200 acre-ft, June 16, 1997, elevation 1,648.47 ft; minimum 118,800 acre-ft, Sept 25, 2012, elevation 1,632.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents 143,800 acre-ft, Oct 1, elevation 1,636.57 ft; minimum 118,800 acre-ft, Sept 25, elevation 1,632.01 ft.

07324300 FOSS RESERVOIR NEAR FOSS, OK—Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Date		^a Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Diversions (acre-feet)
Sept	30	1,636.57	143,800	--	--
Oct	31	1,636.09	141,000	-2,800	313
Nov	30	1,635.78	139,200	-1,800	322
Dec	31	1,635.65	138,500	-700	315
CAL YR 11		--	--	-29,300	3585
Jan	31	1,635.36	136,800	-1700	333
Feb	29	1,635.27	136,300	-500	300
Mar	31	1,635.38	137,000	+700	316
Apr	30	1,635.21	136,000	-1,000	325
May	31	1,634.78	133,600	-2,400	385
June	30	1,634.23	130,500	-3,100	375
July	31	1,633.29	125,500	-5,000	443
Aug	31	1,632.49	121,200	-4,300	441
Sept	30	1,632.09	119,200	-2,000	363
WTR YR 12		-	-	-24,600	4,231

^aElevation at 2400