

Water-Data Report 2013

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, 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 99,100 acre-ft, Sept 27, 2013, elevation 1,627.94 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents 119,200 acre-ft, Oct 1, elevation 1,632.09 ft; minimum 99,100 acre-ft, Sept 27, elevation 1,627.94 ft.

07324300 FOSS RESERVOIR NEAR FOSS, OK—Continued**MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Date		^a Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Diversions (acre-feet)
Sept	30	1,632.09	119,200	--	--
Oct	31	1,631.49	116,100	-3,100	306
Nov	30	1,631.06	114,000	-2,100	331
Dec	31	1,630.75	112,400	-1,600	331
CAL YR 12		--	--	-26,100	4,249
Jan	31	1,630.66	112,000	-400	334
Feb	28	1,630.79	112,600	+600	264
Mar	31	1,630.52	111,300	-1,300	301
Apr	30	1,630.31	110,300	-1,000	281
May	31	1,630.10	109,200	-1,100	339
June	30	1,629.55	106,600	-2,600	398
July	31	1,628.86	103,400	-3,200	449
Aug	31	1,628.38	101,100	-2,300	420
Sept	30	1,627.95	99,100	-2,000	394
WTR YR 13		--	--	-20,100	4,148

^aElevation at 2400