

07191300 SPAVINAW LAKE AT SPAVINAW, OK

Neosho Basin
Lower Neosho Subbasin

LOCATION.--Lat 36°22'59", long 95°02'52" referenced to North American Datum of 1927, in NW ¼ SW ¼ SE ¼ sec.15, T.22 N., R.21 E., Mayes County, OK, Hydrologic Unit 11070209, right of intake tower on face of dam on Spavinaw Creek at Spavinaw, and at mile 5.5.

DRAINAGE AREA.--388 mi², 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.--October 1991 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

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

REMARKS.--Reservoir is formed by earth dam with uncontrolled concrete spillway. Levels are maintained in Spavinaw Lake by releases from Lake Eucha. Storage began 1924; conservation pool first filled November 1924. Capacity 41,200 acre-ft at elevation 682 ft. Dead storage, 15,300 acre-ft at elevation 662 ft for previous rating. New capacity table is based on data provided by OWRB and put into use Oct. 1, 2007. Capacities from 680.00 ft to 686.00 ft are based upon a linear extension of existing data. Capacity 29,500 acre-ft at elevation 682 ft. Dead storage, 7,130 acre-ft at elevation 662 ft. Figures given herein represent total contents. Reservoir is used for water supply, recreation, and fish and wildlife. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 41,630 acre-ft, July 3, 2004, elevation 683.83 ft; Apr. 25, 2011, maximum elevation 684.93 ft; minimum, 20,560 acre-ft, Jan. 16, 2007, elevation, 672.54 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1942 reached a stage of 689.13 ft, contents unknown.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 33,340 acre-ft, April 18, elevation 684.42 ft; minimum, 25,530 acre-ft, Nov. 5-6, elevation 679.44 ft.

Reservoir Elevation-Capacity Table

Elevation, in ft	Capacity, in acre-ft	Elevation, in ft	Capacity, in acre-ft
660	5,545	663	7,916
667	10,793	670	14,104
673	17,758	677	21,746
680	26,400	686	35,820

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25,700	25,610	25,760	26,010	26,530	26,260	26,210	26,920	27,550	26,560	26,110	26,310
2	25,690	25,590	25,790	26,010	26,530	26,210	26,240	26,890	27,310	26,490	26,110	26,170
3	25,690	25,580	25,860	26,030	26,540	26,180	26,260	26,860	27,200	26,540	26,090	26,140
4	25,670	25,580	25,860	26,030	26,540	26,140	26,350	26,870	27,110	26,730	26,090	26,150
5	25,670	25,550	25,950	26,040	26,540	26,170	26,760	26,860	27,120	26,780	26,070	26,120
6	25,660	25,530	25,980	26,040	26,530	26,170	26,930	26,860	27,030	26,790	26,070	26,070
7	25,660	25,550	25,980	26,060	26,530	26,170	26,950	26,860	26,980	26,790	26,070	26,030
8	25,670	25,550	26,010	26,090	26,490	26,110	26,930	26,860	26,950	26,650	28,800	25,970
9	25,690	25,560	26,000	26,110	26,510	26,170	26,890	26,980	26,900	26,530	28,210	25,890
10	25,700	25,560	26,000	26,120	26,510	26,150	26,980	29,950	26,890	e26,280	27,640	25,860
11	25,720	25,730	26,000	26,150	26,510	26,120	27,780	28,380	26,860	e26,110	27,360	25,860
12	25,980	25,730	25,980	26,180	26,530	26,040	27,610	27,800	26,820	e26,040	27,230	25,870
13	25,980	25,730	25,980	26,210	26,540	26,010	27,420	27,530	26,780	e25,970	27,200	25,860
14	25,920	25,730	26,010	26,200	26,530	25,980	27,260	27,360	26,780	e25,930	27,150	25,860
15	25,860	25,730	26,010	26,180	26,510	26,000	27,140	27,290	26,790	e25,880	27,140	25,860
16	25,830	25,750	26,030	26,200	26,530	26,010	27,060	27,200	26,810	25,860	27,060	25,890
17	25,830	25,750	26,030	26,210	26,510	25,970	27,060	27,120	27,060	25,890	26,980	25,920
18	25,790	25,750	26,040	26,210	26,510	25,980	31,280	27,090	26,950	25,870	26,930	25,930
19	25,790	25,780	26,040	26,210	26,510	25,950	28,710	27,030	26,840	25,840	26,890	26,040
20	25,810	25,780	26,030	26,230	26,480	25,950	27,940	26,980	26,790	25,860	26,840	26,030
21	25,840	25,780	26,040	26,200	26,530	25,980	27,590	26,980	26,750	26,010	26,790	25,980
22	25,870	25,760	26,040	26,200	26,560	26,010	27,400	26,950	26,730	26,000	26,760	25,920
23	25,870	25,760	26,040	26,230	26,560	26,000	27,260	26,930	26,700	26,060	26,750	25,870
24	25,840	25,760	26,060	26,140	26,540	26,010	27,170	26,930	26,680	26,210	26,730	25,870
25	25,790	25,760	25,920	26,150	26,480	26,000	27,090	26,920	26,670	26,140	26,700	25,900
26	25,700	25,750	25,920	26,150	26,480	26,000	27,080	26,890	26,640	26,230	26,670	25,900
27	25,690	25,750	25,920	26,180	26,400	25,980	27,000	26,870	26,650	26,170	26,670	25,860
28	25,670	25,750	25,900	26,210	26,320	25,980	26,980	26,840	26,650	26,060	26,640	25,920
29	25,660	25,750	25,920	26,620	---	26,000	26,980	26,790	26,620	26,010	26,590	25,890
30	25,640	25,760	25,920	26,590	---	26,150	26,950	27,120	26,600	26,120	26,490	25,860
31	25,620	---	26,010	26,540	---	26,200	---	27,990	---	26,120	26,400	---
Max	25,980	25,780	26,060	26,620	26,560	26,260	31,280	29,950	27,550	26,790	28,800	26,310
Min	25,620	25,530	25,760	26,010	26,320	25,950	26,210	26,790	26,600	25,840	26,070	25,860
Elevation, in feet, at end of month	679.50	679.59	679.75	680.09	679.95	679.87	680.35	681.01	680.13	679.82	680.00	679.65
Change in contents, in acre-ft	-100	+140	+250	+530	-220	-120	+750	+1040	-1390	-480	+280	-540

	Calendar Year 2012	Water Year 2013
Max	30,230	31,280
Min	25,530	25,530
Change in Contents, in acre-ft	-110	+140

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