

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, 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.--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, 30,430 acre-ft, Mar. 20, elevation 682.57 ft; minimum, 25,690 acre-ft, Oct. 30, elevation 679.54 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 2011 TO SEPTEMBER 2012
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	26,210	25,790	26,090	26,110	26,490	26,670	27,000	26,820	26,070	25,980	25,970	26,200
2	26,180	25,860	26,090	26,070	26,530	26,640	26,970	26,760	26,010	26,000	25,970	26,210
3	26,150	25,900	26,180	26,060	26,600	26,620	26,900	26,710	26,000	26,040	25,970	26,200
4	26,150	25,970	26,180	26,040	26,680	26,620	26,890	26,700	26,040	26,070	25,980	26,200
5	26,150	26,030	26,120	26,030	26,790	26,640	26,840	26,680	26,000	26,090	26,030	26,180
6	26,150	26,120	26,110	26,010	26,840	26,680	26,840	26,650	25,970	26,090	26,030	26,180
7	26,140	26,370	26,110	25,980	26,840	26,670	26,840	26,560	26,010	26,110	26,010	26,290
8	26,140	26,590	26,090	25,950	26,820	26,530	26,820	26,490	26,060	26,110	25,950	26,260
9	26,140	26,450	26,070	25,950	26,820	26,530	26,810	26,460	26,070	26,090	26,000	26,240
10	26,170	26,310	26,070	25,980	26,790	26,570	26,730	26,460	26,070	26,070	25,980	26,230
11	26,180	26,200	26,060	26,000	26,730	26,680	26,710	26,430	26,090	26,060	26,010	26,200
12	26,200	26,200	26,090	25,980	26,750	26,700	26,730	26,370	26,070	26,070	26,040	26,180
13	26,180	26,200	26,150	26,000	26,750	26,680	26,700	26,290	26,060	26,200	26,070	26,310
14	26,180	26,260	26,230	26,010	26,730	26,680	26,730	26,240	26,040	26,230	26,060	26,510
15	26,170	26,260	26,210	26,010	26,730	26,700	26,760	26,230	26,140	26,240	26,030	26,540
16	26,170	26,110	26,170	26,010	26,710	26,700	26,700	26,200	26,140	26,240	26,030	26,540
17	26,180	26,010	26,150	26,010	26,700	26,700	26,680	26,180	26,140	26,230	26,010	26,490
18	26,150	25,950	26,140	26,060	26,670	26,700	26,670	26,200	26,120	26,170	26,010	26,400
19	26,140	25,920	26,210	26,120	26,680	28,220	26,670	26,210	26,090	26,120	26,010	26,290
20	26,140	25,870	26,230	26,170	26,680	30,230	26,680	26,240	26,070	26,090	26,000	26,210
21	26,070	26,090	26,230	26,200	26,670	28,740	26,670	26,260	26,210	26,040	26,000	26,120
22	26,060	26,060	26,230	26,200	26,670	28,580	26,620	26,260	26,230	26,030	25,980	26,030
23	26,000	26,060	26,210	26,240	26,640	27,840	26,620	26,260	26,210	26,000	25,970	25,920
24	25,950	26,030	26,210	26,260	26,640	27,750	26,620	26,280	26,200	25,980	25,950	25,830
25	25,890	26,030	26,210	26,400	26,640	27,580	26,640	26,290	26,170	25,970	25,950	25,780
26	25,840	26,150	26,210	26,420	26,650	27,440	26,620	26,290	26,110	25,980	26,370	25,760
27	25,810	26,140	26,200	26,420	26,560	27,310	26,640	26,290	26,040	26,010	26,380	25,760
28	25,780	26,140	26,180	26,430	26,590	27,220	26,590	26,290	26,010	26,010	26,340	25,750
29	25,730	26,120	26,170	26,450	26,670	27,140	26,560	26,290	26,000	26,000	26,260	25,730
30	25,730	26,110	26,150	26,460	---	27,080	26,700	26,090	26,000	25,980	26,180	25,720
31	25,730	---	26,120	26,480	---	27,040	---	26,110	---	25,980	26,180	---
Max	26,210	26,590	26,230	26,480	26,840	30,230	27,000	26,820	26,230	26,240	26,380	26,540
Min	25,730	25,790	26,060	25,950	26,490	26,530	26,560	26,090	25,970	25,970	25,950	25,720
Elevation, in feet, at end of month	679.57	679.81	679.82	680.05	680.17	680.41	680.19	679.81	679.74	679.73	679.86	679.56
Change in contents, in acre-ft	-500	+380	+10	+360	+190	+370	-340	-590	-110	-20	+200	-460

	Calendar Year 2011	Water Year 2012
Max	34,050	30,230
Min	25,730	25,720
Change in Contents, in acre-ft	+60	-510

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