

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.--386 mi², (U.S. Army Corps of Engineers).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1991 to current year.

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, 34,140 acre-ft, Apr. 25, elevation 684.93 ft; minimum, 25,670 acre-ft, Nov. 7,8, elevation 679.53 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

07191300 SPAVINAW LAKE AT SPAVINAW, OK—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	26,070	25,750	26,290	26,060	26,450	25,890	26,000	27,500	27,170	26,890	26,170	26,200
2	26,030	25,730	26,260	26,060	26,430	25,860	25,980	27,360	27,110	26,870	26,150	26,140
3	26,010	25,720	26,230	26,060	26,450	25,840	25,970	27,280	27,040	26,840	26,150	26,060
4	26,010	25,700	26,180	26,060	26,460	25,890	25,950	27,220	26,980	26,810	26,140	26,000
5	26,010	25,700	26,150	26,060	26,490	25,900	25,930	27,170	26,950	26,530	26,140	25,950
6	26,010	25,700	26,140	26,060	26,490	25,920	25,890	27,120	26,900	26,340	26,140	25,970
7	26,030	25,690	26,110	26,060	26,490	25,930	25,870	27,080	26,870	26,180	26,170	25,970
8	26,030	25,690	26,090	26,060	26,450	25,930	25,870	27,080	26,820	26,090	26,090	25,950
9	26,030	25,690	26,060	26,060	26,510	25,900	25,860	27,030	26,790	26,070	26,140	25,950
10	26,040	25,700	26,040	26,060	e26,510	25,900	25,870	26,980	26,750	26,040	26,400	25,970
11	26,120	25,750	26,000	26,060	e26,510	25,870	25,840	26,980	26,710	26,040	26,430	26,010
12	26,120	25,870	25,950	26,060	26,540	25,900	25,810	27,010	26,750	26,090	26,620	26,040
13	26,140	25,870	25,930	26,060	26,540	25,950	25,760	26,900	26,730	26,260	26,620	26,030
14	26,140	25,890	25,920	26,070	26,560	26,040	25,900	26,860	e26,700	26,280	26,590	25,970
15	26,140	25,890	25,930	26,070	26,570	26,090	25,900	26,820	26,670	26,230	26,510	25,900
16	26,140	25,870	25,920	26,070	26,620	26,110	25,900	26,790	26,670	26,170	26,400	25,970
17	26,140	25,890	25,930	26,090	26,640	26,070	25,930	26,790	26,680	26,120	26,340	25,980
18	26,140	25,900	25,950	26,090	26,540	26,030	25,970	26,810	26,650	26,150	26,310	26,010
19	26,150	25,900	25,970	26,090	26,530	25,950	25,980	26,790	26,650	26,170	26,280	25,980
20	26,120	25,920	25,970	26,120	26,510	25,890	25,980	27,010	26,620	26,180	26,240	25,970
21	26,090	25,950	25,970	26,120	26,480	25,890	26,280	27,030	26,540	26,210	26,210	25,980
22	26,070	25,980	25,970	26,140	26,380	25,890	26,510	27,060	26,510	26,210	26,210	26,180
23	26,070	25,950	25,950	26,140	26,280	25,900	26,820	28,020	26,510	26,210	26,240	26,210
24	26,040	26,230	25,980	26,140	26,320	25,900	28,710	29,960	26,490	26,240	26,260	26,240
25	26,030	26,290	25,980	26,150	26,210	25,920	34,050	28,720	26,490	26,380	26,230	26,200
26	26,010	26,310	25,980	26,150	26,110	25,970	29,570	28,210	26,460	26,320	26,240	26,230
27	25,950	26,320	26,000	26,150	25,980	25,920	28,630	27,810	26,380	26,240	26,240	26,240
28	25,900	26,350	26,000	26,170	25,920	25,920	28,220	27,590	26,380	26,180	26,260	26,280
29	25,860	26,320	26,030	26,170	---	25,950	27,860	27,440	26,600	26,150	26,400	26,260
30	25,830	26,310	26,040	26,150	---	25,930	27,590	27,330	26,820	26,150	26,380	26,230
31	25,780	---	26,060	26,170	---	25,980	---	27,230	---	26,170	26,280	---
Max	26,150	26,350	26,290	26,170	26,640	26,110	34,050	29,960	27,170	26,890	26,620	26,280
Min	25,780	25,690	25,920	26,060	25,920	25,840	25,760	26,790	26,380	26,040	26,090	25,900
Elevation, in feet, at end of month	679.60	679.94	679.78	679.85	679.69	679.73	680.76	680.53	680.27	679.85	679.92	679.89
Change in contents, in acre-ft	-280	+530	-250	+110	-250	+60	+1610	-360	-410	-650	+110	-50

	Calendar Year 2010	Water Year 2011
Max	28,390	34,050
Min	25,690	25,690
Change in Contents, in acre-ft	-760	+170

07191300 SPAVINAW LAKE AT SPAVINAW, OK—Continued

