



Water-Data Report 2009

08382810 SANTA ROSA LAKE NEAR SANTA ROSA, NM

Upper Pecos Basin
Pecos Headwaters Subbasin

LOCATION.--Lat 35°01'46.30", long 104°41'12.58" referenced to North American Datum of 1983, Guadalupe County, NM, Hydrologic Unit 13060001, in Jose Perea Grant, near outlet gates of Santa Rosa Dam on Pecos River, approximately 7.0 mi north of Santa Rosa, and at mile 757.2.

DRAINAGE AREA.--2,430 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1980 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is NGVD of 1929 (levels by U.S. Army Corps of Engineers).

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

REMARKS.--Lake is formed by earth and rockfill dam on Pecos River. Storage began on Apr. 22, 1980. Capacity, 439,900 acre-ft, from capacity table effective Oct. 1997, between elevations 4,630.0 ft, invert of outlet structure, and 4,797.0 ft, crest of spillway. Capacity by original survey was 447,100 acre-ft. No dead storage. Lake was created primarily for flood control, irrigation, and sediment control. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 120,481 acre-ft, May 8, 1987, elevation, 4,749.71 ft; no storage for many days, July-Sept., 1980 and June-Aug., 1981.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 47,070 acre-ft, June 21, elevation, 4,727.91 ft; minimum, 20,440 acre-ft, Sept. 13, elevation, 4,712.02 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	29,340	30,430	30,680	31,030	31,480	31,700	23,480	27,610	45,800	28,530	34,040	35,030
2	29,340	30,460	30,680	31,030	31,520	31,720	23,580	28,220	45,990	28,590	34,100	35,080
3	29,360	30,450	30,680	31,030	31,500	31,750	23,640	28,870	46,170	28,640	34,170	35,100
4	29,340	30,450	30,680	31,060	31,520	31,740	23,660	29,550	46,370	28,650	34,180	35,100
5	29,380	30,410	30,710	31,080	31,520	31,720	23,700	30,180	46,500	29,070	34,200	35,100
6	29,380	30,400	30,740	31,080	31,550	31,720	23,740	30,810	46,560	30,260	34,200	35,100
7	29,380	30,400	30,690	31,080	31,570	31,700	23,780	31,500	46,590	30,780	34,180	34,040
8	29,390	30,400	30,730	31,090	31,600	31,720	23,800	32,180	46,700	30,880	34,150	31,670
9	29,390	30,410	30,760	31,130	31,620	31,720	23,790	33,020	46,740	30,880	34,110	29,010
10	29,380	30,410	30,780	31,130	31,620	31,700	23,800	33,880	46,790	30,890	34,020	27,070
11	29,380	30,430	30,790	31,160	31,620	31,700	23,840	34,830	46,790	30,880	34,020	24,460
12	29,420	30,450	30,810	31,180	31,620	31,740	23,860	35,690	46,850	30,880	34,020	21,870
13	29,410	30,460	30,830	31,210	31,630	31,790	23,910	36,520	46,850	30,860	34,000	20,440
14	29,460	30,450	30,830	31,230	31,650	31,820	23,980	37,230	46,870	30,860	34,020	20,970
15	29,550	30,450	30,840	31,260	31,670	31,840	23,980	38,060	46,850	30,860	34,020	21,030
16	29,620	30,480	30,880	31,260	31,680	31,870	23,990	38,660	46,810	30,860	33,990	21,510
17	29,760	30,480	30,890	31,280	31,670	31,890	24,040	39,280	46,760	30,840	33,990	21,870
18	29,870	30,510	30,910	31,310	31,680	30,790	24,190	39,900	46,760	30,930	33,970	22,190
19	29,920	30,540	30,930	31,310	31,670	28,430	24,350	40,400	46,760	30,930	33,970	22,360
20	30,000	30,540	30,930	31,330	31,670	26,000	24,500	40,800	46,940	30,930	34,060	22,540
21	30,070	30,530	30,930	31,350	31,680	23,620	24,600	41,200	47,070	31,030	34,100	22,620
22	30,100	30,540	30,930	31,350	31,670	22,390	24,670	41,630	46,590	31,160	34,080	22,670
23	30,170	30,530	30,960	31,360	31,700	22,410	24,750	42,060	44,480	31,310	34,060	22,710
24	30,220	30,530	30,980	31,380	31,700	22,500	24,900	42,620	41,770	31,380	34,110	22,740
25	30,260	30,540	30,980	31,380	31,700	22,640	25,150	43,080	39,030	31,600	34,170	22,770
26	30,280	30,580	30,980	31,380	31,700	22,810	25,460	43,540	36,320	31,980	34,170	22,800
27	30,310	30,630	30,980	31,360	31,700	22,980	25,850	44,070	33,630	32,700	34,170	22,810
28	30,360	30,640	30,990	31,380	31,700	23,120	26,280	44,540	32,080	32,930	34,150	22,800
29	30,400	30,660	31,030	31,410	---	23,250	26,690	44,930	29,620	33,030	34,170	22,800
30	30,410	30,680	31,030	31,450	---	23,300	27,100	45,250	28,430	33,100	34,240	22,780
31	30,430	---	31,040	31,450	---	23,410	---	45,540	---	33,810	34,830	---
Max	30,430	30,680	31,040	31,450	31,700	31,890	27,100	45,540	47,070	33,810	34,830	35,100
Min	29,340	30,400	30,680	31,030	31,480	22,390	23,480	27,610	28,430	28,530	33,970	20,440
End of month elevation, in feet	4,719.28	4,719.43	4,719.65	4,719.89	4,720.04	4,714.51	4,717.15	4,727.20	4,718.03	4,721.25	4,721.82	4,714.03
Change in contents, in acre-feet	+1,090	+250	+360	+410	+250	-8,290	+3,690	+18,440	-17,110	+5,380	+1,020	-12,050

	Calendar Year 2008	Water Year 2009
Max	58,350	47,070
Min	23,720	20,440

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