

Water-Data Report 2011

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, 43,240 acre-ft, Oct. 21, elevation, 4,726.13 ft; minimum, 8,460 acre-ft, Sept. 13, elevation, 4,698.36 ft.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	42,140	43,010	42,700	42,740	42,830	42,850	22,570	22,000	21,250	20,370	8,640	8,520
2	42,080	43,010	42,700	42,720	42,830	42,850	22,540	21,960	21,230	20,360	8,640	8,520
3	42,160	42,970	42,720	42,740	42,800	42,850	22,500	21,960	21,220	20,350	8,620	8,530
4	43,010	42,970	42,720	42,680	42,870	42,930	22,490	21,920	21,180	20,340	8,610	8,520
5	43,180	42,970	42,720	42,720	42,890	42,910	22,460	21,940	21,190	18,910	8,620	8,500
6	43,220	42,950	42,720	42,720	42,910	42,890	22,440	21,920	21,170	16,140	8,610	8,490
7	43,220	42,930	42,740	42,720	42,930	42,890	22,440	21,900	21,130	13,390	8,600	8,490
8	43,200	42,930	42,680	42,700	42,930	42,870	22,430	21,870	21,090	10,420	8,590	8,490
9	43,180	42,890	42,720	42,740	42,950	42,870	22,390	21,840	21,060	8,750	8,570	8,490
10	43,180	42,870	42,760	42,740	42,950	42,870	22,380	21,800	21,030	8,740	8,550	8,490
11	43,180	42,890	42,740	42,720	42,930	41,570	22,380	21,770	21,020	8,650	8,570	8,490
12	43,180	42,890	42,740	42,720	42,970	38,830	22,360	21,760	20,980	8,660	8,570	8,470
13	43,160	42,890	42,760	42,780	42,990	36,300	22,310	21,750	20,950	8,660	8,560	8,460
14	43,160	42,910	42,760	42,780	42,950	33,470	22,270	21,740	20,910	8,660	8,560	8,490
15	43,160	42,890	42,780	42,830	42,990	30,680	22,290	21,720	20,900	8,650	8,540	8,530
16	43,160	42,870	42,760	42,830	42,990	27,870	22,260	21,700	20,850	8,640	8,520	9,430
17	43,160	42,870	42,800	42,850	42,950	25,110	22,250	21,670	20,800	8,620	8,520	9,770
18	43,140	42,850	42,830	42,830	42,950	23,200	22,220	21,650	20,770	8,620	8,510	9,890
19	43,160	42,830	42,870	42,910	42,950	22,770	22,210	21,610	20,700	8,600	8,540	9,960
20	43,140	42,830	42,850	42,870	42,970	22,780	22,200	21,590	20,670	8,600	8,540	9,970
21	43,240	42,800	42,870	42,850	42,950	22,770	22,200	21,560	20,660	8,590	8,550	9,980
22	43,220	42,800	42,850	42,830	42,910	22,760	22,170	21,560	20,680	8,680	8,560	9,960
23	43,140	42,780	42,870	42,830	42,910	22,620	22,150	21,540	20,650	8,690	8,570	9,970
24	43,160	42,760	42,870	42,830	42,930	22,600	22,150	21,480	20,610	8,690	8,570	9,970
25	43,100	42,760	42,890	42,830	42,890	22,580	22,140	21,480	20,570	8,690	8,590	9,970
26	43,060	42,740	42,890	42,830	42,870	22,590	22,100	21,450	20,550	8,680	8,590	9,950
27	43,030	42,740	42,850	42,850	42,870	22,580	22,060	21,420	20,490	8,660	8,590	9,950
28	43,030	42,700	42,830	42,850	42,850	22,630	22,050	21,390	20,470	8,660	8,580	9,950
29	43,010	42,720	42,830	42,830	---	22,580	22,010	21,340	20,440	8,670	8,570	9,930
30	43,010	42,740	42,780	42,830	---	22,570	22,010	21,290	20,410	8,660	8,560	9,930
31	43,010	---	42,760	42,830	---	22,570	---	21,250	---	8,660	8,550	---
Max	43,240	43,010	42,890	42,910	42,990	42,930	22,570	22,000	21,250	20,370	8,640	9,980
Min	42,080	42,700	42,680	42,680	42,800	22,570	22,010	21,250	20,410	8,590	8,510	8,460
Change in contents, in acre-feet	+620	-270	+20	+70	+20	-20,280	-560	-760	-840	-11,750	-110	+1,380

	Calendar Year 2010	Water Year 2011
Max	67,530	43,240
Min	20,830	8,460

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