

Water-Data Report 2006

08382810 SANTA ROSA LAKE NEAR SANTA ROSA, NM

Upper Pecos Basin
Pecos Headwaters Subbasin

LOCATION.--Lat 35°01'47", long 104°41'32" referenced to North American Datum of 1983, Guadalupe County, 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, 96,600 acre-ft, Oct. 2, elevation, 4,744.87 ft; minimum, 27,310 acre-ft, June 24, elevation, 4,717.29 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	96,270	94,250	88,250	83,430	83,460	66,270	65,790	64,930	61,300	27,750	29,910	64,900
2	96,600	94,210	85,640	83,490	83,490	66,270	65,770	64,930	58,810	27,730	30,460	65,380
3	96,310	94,180	83,660	83,490	83,490	66,300	65,740	64,900	56,270	27,750	31,230	65,680
4	95,910	94,140	83,630	83,490	83,490	66,300	65,790	64,900	53,730	27,720	31,720	65,910
5	95,540	94,100	83,590	83,490	83,460	66,270	65,740	64,870	51,230	27,810	32,100	66,080
6	95,180	94,070	83,660	83,490	83,430	66,240	65,740	64,850	48,710	27,930	32,390	66,330
7	95,150	94,030	83,660	83,490	83,390	66,220	65,680	64,790	46,240	28,200	33,210	67,990
8	95,180	94,000	83,660	83,490	83,390	66,190	65,630	64,710	43,820	28,340	33,740	72,560
9	95,330	94,000	83,630	83,490	83,390	66,160	65,600	64,680	41,410	28,460	34,110	76,940
10	95,330	93,960	83,590	83,490	83,390	66,080	65,570	64,630	38,950	28,570	34,650	77,540
11	95,360	93,960	83,520	83,520	83,390	66,050	65,570	64,570	36,480	28,620	35,000	78,120
12	95,440	93,960	83,490	83,520	83,390	65,960	65,510	64,540	34,080	28,640	35,230	79,270
13	95,540	93,960	83,390	83,520	83,390	65,940	65,510	64,570	31,670	28,640	35,520	79,720
14	95,330	93,930	83,330	83,590	83,360	65,940	65,490	64,630	29,200	28,600	37,920	79,890
15	94,750	93,930	83,330	83,560	83,360	65,940	65,430	64,680	27,470	28,590	39,340	79,980
16	94,180	93,890	83,330	83,560	83,330	65,910	65,380	64,710	27,460	28,560	40,600	79,980
17	93,530	93,890	83,360	83,560	83,330	65,910	65,290	64,680	27,440	28,540	41,320	79,950
18	93,680	93,890	83,390	83,460	83,290	65,910	65,210	64,650	27,410	28,510	42,950	79,980
19	93,640	93,890	83,430	83,460	83,330	65,910	65,180	64,600	27,380	28,480	44,280	79,950
20	93,710	93,850	83,430	83,460	83,260	65,880	65,210	64,600	27,340	28,460	48,870	79,890
21	93,960	93,820	83,490	83,490	82,730	65,880	65,150	64,540	27,340	28,450	52,480	79,760
22	93,960	93,820	83,560	83,490	80,670	65,910	65,210	64,490	27,320	28,400	54,920	79,790
23	94,070	93,850	83,560	83,490	77,890	65,910	65,120	64,380	27,320	28,390	56,820	79,720
24	94,100	93,820	83,560	83,490	75,430	65,880	65,100	64,350	27,310	28,360	58,040	79,690
25	94,100	93,780	83,560	83,490	73,170	65,850	65,040	64,380	27,400	28,330	59,330	79,690
26	94,100	93,820	83,520	83,520	71,050	65,820	65,040	64,240	27,640	28,310	60,140	79,690
27	94,250	93,710	83,560	83,520	68,830	65,820	65,010	64,160	27,780	28,310	61,750	79,630
28	94,280	93,710	83,560	83,520	67,120	65,850	64,980	64,050	27,750	28,920	62,320	79,630
29	94,280	93,210	83,560	83,490	---	65,820	64,960	63,970	27,760	29,140	63,670	79,630
30	94,280	91,060	83,590	83,490	---	65,770	64,930	64,000	27,760	29,220	64,210	79,560
31	94,280	---	83,490	83,460	---	65,770	---	63,370	---	29,250	64,570	---
Max	96,600	94,250	88,250	83,590	83,490	66,300	65,790	64,930	61,300	29,250	64,570	79,980
Min	93,530	91,060	83,330	83,430	67,120	65,770	64,930	63,370	27,310	27,720	29,910	64,900
End of month elevation, in feet												
	4,744.23	4,743.32	4,741.07	4,741.06	4,735.83	4,735.35	4,735.05	4,734.48	4,717.59	4,718.55	4,734.92	4,739.90
Change in contents, in acre-feet												
	-1,520	-3,220	-7,540	-30	-16,340	-1,350	-840	-1,560	-35,610	+1,490	+35,320	+14,990

	Calendar Year 2005	Water Year 2006
Max	98,030	96,600
Min	30,250	27,310

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