

11297700 Lyons Reservoir near Long Barn, CA

San Joaquin River Basin

LOCATION.--Lat 38°05'38", long 120°09'59" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.24, T.3 N., R.16 E., Tuolumne County, CA, Hydrologic Unit 18040010, at left abutment of dam, and 1.6 mi west of Long Barn.

DRAINAGE AREA.--66.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1985 to current year. Unpublished records for water years 1981-85 are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Prior to Dec. 10, 1990, nonrecording gage read three times weekly. Datum of gage is 4,134 ft above NGVD of 1929 (levels by Pacific Gas and Electric Company).

COOPERATION.--Records were collected by Pacific Gas and Electric Company, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2130.

REMARKS.--Reservoir is formed by concrete arch dam completed in 1930; storage began in 1930. Usable capacity, 4,850 acre-ft, between gage heights 0.0 ft, invert of outlet, and 86.0 ft, top of spillway gates. Dead storage, 2.5 acre-ft. Part of the released water is diverted to Tuolumne Canal (station 11297500) near the base of the dam. Records since Dec. 10, 1990, including extremes, represent total contents at 2400 hours. See schematic diagram of Stanislaus River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 6,292 acre-ft, June 4, 5, 7, 9, 10, 1989, gage height, 90.4 ft, maximum gage height, 90.47 ft, June 15, 2000; minimum, 829 acre-ft, Dec. 21, 2006, gage height, 48.44 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,540 acre-ft, May 11, 15, June 3, maximum gage height, 90.21 ft, May 15; minimum, 829 acre-ft, Dec. 21, gage height, 48.44 ft.

**Capacity table (gage height, in feet, and contents, in acre-feet)
(Based on survey by Pacific Gas and Electric Company in 1996)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
20	34.2	40	474	70	2,598
25	94.4	50	908	80	3,913
30	186	60	1,592	90	5,507

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,720	1,620	1,240	901	1,020	1,610	2,920	4,120	5,520	4,450	2,630	1,910
2	1,680	1,620	1,210	892	1,030	1,600	2,950	4,280	5,530	4,400	2,580	1,890
3	1,650	1,620	1,190	877	1,030	1,600	2,990	4,340	5,540	4,340	2,530	1,890
4	1,620	1,620	1,170	946	1,030	1,600	3,050	4,400	5,530	4,290	2,470	1,870
5	1,630	1,630	1,150	967	1,040	1,640	3,110	4,430	5,530	4,220	2,420	1,870
6	1,610	1,640	1,130	980	1,040	1,710	3,200	4,440	5,510	4,160	2,360	1,850
7	1,600	1,650	1,110	985	1,050	1,790	3,330	4,480	5,480	4,090	2,310	1,850
8	1,580	1,660	1,090	984	1,060	1,890	3,450	4,640	5,450	4,030	2,260	1,830
9	1,560	1,660	1,070	983	1,090	1,950	3,540	4,980	5,410	3,980	2,220	1,830
10	1,540	1,670	1,050	968	1,200	2,010	3,630	5,330	5,380	3,910	2,190	1,810
11	1,530	1,650	1,020	938	1,420	2,070	3,710	5,540	5,330	3,860	2,180	1,810
12	1,530	1,630	1,010	898	1,500	2,150	3,730	5,500	5,300	3,800	2,160	1,810
13	1,510	1,610	996	861	1,540	2,210	3,720	5,490	5,260	3,750	2,140	1,790
14	1,500	1,630	975	849	1,570	2,270	3,720	5,470	5,230	3,680	2,130	1,800
15	1,490	1,630	953	854	1,590	2,320	3,700	5,540	5,200	3,630	2,110	1,780
16	1,510	1,610	931	858	1,610	2,370	3,680	5,480	5,160	3,570	2,090	1,770
17	1,550	1,600	905	880	1,610	2,440	3,680	5,510	5,130	3,510	2,080	1,770
18	1,580	1,570	882	902	1,620	2,520	3,660	5,520	5,090	3,440	2,060	1,770
19	1,620	1,550	860	917	1,630	2,580	3,620	5,510	5,040	3,380	2,040	1,770
20	1,650	1,520	841	931	1,640	2,650	3,580	5,530	5,000	3,330	2,020	1,780
21	1,670	1,490	829	942	1,650	2,710	3,540	5,520	4,950	3,270	2,010	1,770
22	1,660	1,460	839	953	1,640	2,750	3,540	5,480	4,910	3,210	2,000	1,790
23	1,650	1,440	847	964	1,630	2,780	3,530	5,510	4,870	3,150	1,990	1,790
24	1,630	1,420	857	975	1,600	2,780	3,520	5,520	4,820	3,090	1,970	1,810
25	1,630	1,390	863	987	1,600	2,780	3,520	5,520	4,770	3,030	1,960	1,870
26	1,630	1,350	874	992	1,610	2,810	3,540	5,520	4,720	2,970	1,950	1,920
27	1,620	1,330	914	995	1,610	2,820	3,580	5,510	4,670	2,910	1,940	2,160
28	1,620	1,320	929	1,000	1,620	2,890	3,690	5,500	4,610	2,850	1,930	2,220
29	1,620	1,290	929	1,010	---	2,890	3,830	5,500	4,560	2,780	1,930	2,250
30	1,620	1,270	921	1,010	---	2,890	3,970	5,500	4,500	2,730	1,920	2,270
31	1,620	---	911	1,020	---	2,900	---	5,520	---	2,680	1,910	---
Max	1,720	1,670	1,240	1,020	1,650	2,900	3,970	5,540	5,540	4,450	2,630	2,270
Min	1,490	1,270	829	849	1,020	1,600	2,920	4,120	4,500	2,680	1,910	1,770
Gage height, in feet, at end of month	60.31	55.89	50.06	51.98	60.28	72.49	80.40	90.10	83.85	70.72	63.50	67.03
Change in contents, in acre-feet	-140	-350	-359	+109	+600	+1,280	+1,070	+1,550	-1,020	-1,820	-770	+360

	Calendar Year 2006	Water Year 2007
Max	5,510	5,540
Min	829	829
Change in contents, in acre-feet	-3,319	+510

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