



Water-Data Report 2007

11231000 Lake Thomas A. Edison near Big Creek, CA

San Joaquin River Basin

LOCATION.--Lat 37°22'09", long 118°59'17" referenced to North American Datum of 1927, Fresno County, CA, Hydrologic Unit 18040006, unsurveyed, in Sierra National Forest, in outlet works of Vermillion Valley Dam on Mono Creek, and 18.1 mi northeast of town of Big Creek.

DRAINAGE AREA.--90.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1954 to current year. Prior to 1960, maximum and minimum daily contents were published.

GAGE.--Water-stage recorder. Elevation of gage is NGVD of 1929 (levels by Southern California Edison Co.).

COOPERATION.--Records were collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2086. Contents not rounded to U.S. Geological Survey standards.

REMARKS.--Lake is formed by earth-fill dam; dam completed and storage began Oct. 12, 1954. Usable capacity, 125,035 acre-ft, between elevations 7,508.9 ft, invert of outlet works, and 7,642.50 ft, top of gates in service spillway. Water is diverted at times into lake from Warm Creek (station 11231700). Water is released for diversion to Ward Tunnel via Mono Creek Conduit (station 11231550). Records, excluding extremes, represent contents at 2400 hours. See schematic diagram of upper San Joaquin River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 125,983 acre-ft, Sept. 26, 1982, elevation, 7,643.55 ft; minimum since appreciable storage was attained, 4,553 acre-ft, Dec. 27, 1987, elevation, 7,552.07 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 91,188 acre-ft, several days in December, elevation, 7,623.61 ft; minimum, 9,591 acre-ft, Sept. 30, elevation, 7,560.09 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Southern California Edison Co., dated July 22, 1955)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
7,550	3,567	7,580	28,515	7,620	85,006
7,555	6,147	7,590	40,454	7,630	102,367
7,560	9,521	7,600	53,769	7,640	120,424
7,570	18,137	7,610	68,616	7,644	127,820

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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	90,273	90,273	90,877	81,296	67,804	65,986	62,774	57,169	57,184	54,771	44,271	23,661
2	90,376	90,376	90,877	79,643	67,616	65,986	62,501	57,256	56,852	54,517	43,583	22,857
3	90,376	90,376	90,774	78,764	67,537	65,986	62,248	57,169	56,607	54,433	42,908	22,133
4	90,376	90,376	90,774	78,183	67,444	65,802	62,070	57,083	56,449	54,277	42,150	21,422
5	90,273	90,376	90,877	77,311	67,351	65,802	61,891	56,910	56,136	54,108	41,395	20,767
6	90,376	90,376	90,774	76,537	67,256	65,709	61,726	56,751	55,736	53,938	40,658	20,298
7	90,376	90,376	90,877	75,769	67,163	65,709	61,547	56,493	55,565	53,769	39,913	19,892
8	90,376	90,481	90,877	75,099	67,068	65,709	61,368	56,408	55,523	53,616	39,259	19,382
9	90,376	90,376	90,877	74,434	66,976	65,632	61,205	56,408	55,523	53,364	38,448	18,925
10	90,481	90,481	91,084	73,771	66,976	65,632	61,115	56,579	55,438	52,960	37,716	18,474
11	90,273	90,481	91,084	73,011	66,976	65,538	60,936	56,751	55,438	52,793	37,001	18,025
12	90,273	90,376	91,188	72,175	66,805	65,632	60,671	57,083	55,523	52,626	36,205	17,524
13	90,169	90,481	91,084	71,327	66,713	65,538	60,332	57,342	55,523	52,472	35,571	17,084
14	90,273	90,566	91,084	70,578	66,713	65,538	60,067	57,587	55,680	52,305	34,786	16,657
15	90,169	90,566	91,188	70,116	66,528	65,632	59,904	57,760	55,765	52,057	34,089	16,113
16	90,273	90,669	91,188	69,927	66,528	65,632	59,552	57,933	55,937	51,823	33,387	15,686
17	90,273	90,669	91,188	69,737	66,528	65,802	59,303	58,180	55,937	51,740	32,691	15,260
18	90,273	90,669	91,084	69,643	66,528	65,894	59,040	58,268	56,023	51,492	32,010	14,840
19	90,273	90,669	90,669	69,469	66,434	65,986	58,705	58,180	56,023	51,340	31,258	14,326
20	90,273	90,774	89,774	69,375	66,342	66,172	58,442	58,268	55,937	51,092	30,592	13,914
21	90,273	90,774	89,070	69,279	66,265	66,172	58,180	58,268	55,937	50,859	30,126	13,455
22	90,273	90,774	88,365	69,089	66,342	65,986	57,933	58,107	55,937	50,614	29,457	13,052
23	90,273	90,774	87,460	68,995	66,265	65,632	57,674	57,848	55,765	50,450	28,930	12,603
24	90,273	90,877	86,655	68,995	66,080	65,172	57,429	57,660	55,680	50,054	28,339	12,218
25	90,273	90,774	85,958	68,917	66,172	64,913	57,083	57,429	55,594	49,334	27,830	11,778
26	90,273	90,877	85,159	68,727	66,080	64,729	56,838	57,429	55,438	48,700	27,245	11,346
27	90,273	90,877	84,464	68,538	66,172	64,363	56,665	57,429	55,266	48,000	26,732	10,918
28	90,273	90,877	83,669	68,443	66,080	64,011	56,665	57,501	55,180	47,212	26,155	10,499
29	90,273	90,774	82,775	68,273	---	63,739	56,838	57,429	55,012	46,507	25,649	10,046
30	90,376	90,877	81,984	68,085	---	63,393	56,910	57,429	54,856	45,806	25,079	9,591
31	90,376	---	81,296	67,990	---	63,045	---	57,256	---	45,044	24,334	---
Max	90,481	90,877	91,188	81,296	67,804	66,172	62,774	58,268	57,184	54,771	44,271	23,661
Min	90,169	90,273	81,296	67,990	66,080	63,045	56,665	56,408	54,856	45,044	24,334	9,591
Elevation, in feet, at end of month	7,623.14	7,623.43	7,617.80	7,609.60	7,608.37	7,606.38	7,602.21	7,602.45	7,600.77	7,593.56	7,576.15	7,560.09
Change in contents, in acre-feet	+69	+501	-9,581	-13,306	-1,910	-3,035	-6,135	+346	-2,400	-9,812	-20,710	-14,743

	Calendar Year 2006	Water Year 2007
Change in contents, in acre-feet	+16,598	-80,716

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