



Water-Data Report CA-2005

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, 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.

WATER-STAGE 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.).

REMARKS.--Lake is formed by earthfill 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.

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.

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, 123,813 acre-ft, July 23, elevation, 7,641.84 ft; minimum, 26,046 acre-ft, Mar. 21, elevation, 7,577.75 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 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	71,183	65,019	63,514	65,523	53,896	36,326	27,364	26,491	63,347	111,334	121,986	118,738
2	70,466	64,913	63,543	65,570	53,183	35,716	27,452	26,589	65,617	113,160	121,839	118,243
3	69,769	64,882	63,589	65,770	52,555	35,099	27,607	26,753	67,679	114,778	121,767	118,263
4	69,058	64,791	63,633	65,879	51,932	34,496	27,674	26,949	69,737	116,325	121,582	118,225
5	68,366	64,637	63,679	65,941	51,258	33,851	27,729	27,266	71,661	117,768	121,527	118,207
6	67,616	64,531	63,679	65,986	50,573	33,303	27,751	27,375	73,429	119,214	121,491	118,225
7	66,929	64,561	63,800	66,219	49,959	32,691	27,674	27,441	74,758	120,460	121,435	118,207
8	66,219	64,515	63,875	66,372	49,280	32,151	27,562	27,585	75,998	121,141	121,214	118,170
9	65,770	64,439	63,906	66,590	48,659	31,582	27,320	27,839	77,064	121,620	121,105	118,134
10	65,523	64,363	63,966	66,821	47,960	31,084	27,168	27,839	78,249	121,968	120,993	118,025
11	65,324	64,302	64,027	67,083	47,332	30,580	27,047	27,895	79,576	122,207	120,828	117,988
12	65,141	64,225	64,118	66,914	46,706	30,137	26,927	27,972	81,113	122,559	120,627	117,841
13	64,958	64,133	64,118	66,203	46,057	29,727	26,785	28,183	82,842	122,760	120,442	117,768
14	64,774	64,042	64,164	65,647	45,397	29,289	26,676	28,549	84,955	122,816	120,295	117,641
15	64,622	63,906	64,255	65,004	44,886	28,773	26,600	29,187	87,236	122,928	120,295	117,384
16	64,668	63,831	64,302	64,392	44,257	28,283	26,556	30,958	89,378	123,002	120,112	116,965
17	64,806	63,739	64,348	63,739	43,647	27,773	26,622	32,033	91,205	123,242	120,112	116,562
18	64,820	63,618	64,348	63,106	43,088	27,277	26,676	33,375	92,588	123,464	120,168	116,162
19	64,974	63,558	64,409	62,427	42,445	26,883	26,753	34,822	93,871	123,555	120,204	115,724
20	65,065	63,483	64,439	61,772	41,841	26,403	26,676	36,533	95,176	123,500	120,222	115,379
21	65,035	63,377	64,470	61,070	41,294	26,133	26,633	38,223	96,642	123,665	120,222	114,996
22	65,065	63,226	64,561	60,407	40,670	26,426	26,633	40,265	98,220	123,721	120,241	114,542
23	65,111	63,212	64,576	59,757	40,038	26,568	26,535	42,407	99,820	123,611	120,259	114,196
24	65,234	63,197	64,546	59,098	39,409	26,666	26,491	44,597	101,340	123,444	120,186	113,797
25	65,295	63,256	64,622	58,442	38,796	26,720	26,403	46,904	102,794	123,316	120,148	113,306
26	65,538	63,226	64,637	57,890	38,148	26,797	26,393	49,388	103,896	123,150	120,095	113,107
27	65,508	63,483	64,698	57,169	37,518	26,916	26,414	51,892	105,196	122,982	120,095	112,583
28	65,401	63,468	64,913	56,607	36,952	27,091	26,468	54,447	106,573	122,872	120,021	112,185
29	65,263	63,453	64,974	55,879	---	27,179	26,381	56,866	107,969	122,688	119,984	111,768
30	65,202	63,498	65,217	55,265	---	27,212	26,425	58,865	109,604	122,447	119,856	111,351
31	65,111	---	65,493	54,558	---	27,277	---	61,026	---	122,281	119,343	---
Max	71,183	65,019	65,493	67,083	53,896	36,326	27,751	61,026	109,604	123,721	121,986	118,738
Min	64,622	63,197	63,514	54,558	36,952	26,133	26,381	26,491	63,347	111,334	119,343	111,351
Elevation, in feet, at end of month	7,607.74	7,606.68	7,607.99	7,600.56	7,587.19	7,578.88	7,578.10	7,605.03	7,634.05	7,641.01	7,639.41	7,635.02
Change in contents, in acre-feet	-6,678	-1,613	+1,995	-10,935	-17,606	-9,675	-852	+34,601	+48,578	+12,677	-2,938	-7,992

	Calendar Year 2004	Water Year 2005
Change in contents, in acre-feet	+13,298	+39,562

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