



Water-Data Report CA-2005

11236000 HUNTINGTON LAKE NEAR BIG CREEK, CA

San Joaquin River Basin

LOCATION.--Lat 37°14'04", long 119°12'44" referenced to North American Datum of 1927, in SW ¼ sec.14, T.8 S., R.25 E., Fresno County, Hydrologic Unit 18040006, in Sierra National Forest, in gate tower of dam No. 1 on Big Creek, and 2.7 mi northeast of town of Big Creek.

DRAINAGE AREA.--80.5 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--April 1913 to current year. Prior to October 1926, monthly contents only, published in WSP 1315-A; 1926-31, published in WSP 721. Maximum and minimum daily contents (water years 1913-39) were summarized in WSP 881. Prior to 1960, maximum and minimum daily contents were published.

REVISED RECORDS.--WSP 1930: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Southern California Edison Co.). Prior to June 19, 1920, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by four dams; storage began Apr. 11, 1913. Dams were raised in 1914 and again in 1917. Usable capacity, 89,166 acre-ft, between elevations 6,819.90 ft, invert of Outlet Tunnel No. 1, and 6,950.00 ft, spillway crest at Dam 1. Additional storage of 600 acre-ft is not available for release. Lake receives water from South Fork San Joaquin River Basin via Ward Tunnel through Portal Powerplant (station 11235500). Water is diverted from lake through Huntington-Shaver Conduit and Eastwood Powerplant (station 11238250) to Shaver Lake (station 11239500) since Apr. 21, 1928. Water is also diverted to Big Creek Powerplant No. 1 (station 11238100) on Big Creek. Records, excluding extremes, represent contents at 2400 hours. See schematic diagram of lower 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. 2175. Records not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 90,491 acre-ft, May 31, 1926, elevation, 6,950.92 ft; minimum, 2,103 acre-ft, Nov. 6, 1937, elevation, 6,838.53 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 88,852 acre-ft, Aug. 18, elevation, 6,949.78 ft; minimum, 22,014 acre-ft, Jan. 7, elevation, 6,888.79 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Southern California Edison Co., dated Sept. 24, 1964)

Elevation	Contents	Elevation	Contents	Elevation	Contents
6,835	1,552	6,870	11,294	6,920	50,813
6,840	2,354	6,880	16,371	6,930	62,555
6,845	3,324	6,890	22,883	6,940	75,344
6,850	4,480	6,900	30,862	6,950	89,166
6,860	7,427	6,910	40,217	6,951	90,606

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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	86,275	74,947	52,606	25,096	36,623	40,407	47,055	43,165	80,396	88,132	88,408	87,908
2	86,417	74,218	51,565	24,638	37,130	40,407	46,433	41,855	81,003	88,584	87,851	87,622
3	86,458	73,769	49,645	23,959	37,574	40,327	45,807	41,552	81,034	88,521	87,509	87,225
4	86,601	73,058	47,967	23,321	37,130	40,689	45,109	41,048	81,093	87,717	87,027	87,226
5	86,771	72,273	46,443	22,694	37,332	40,859	44,374	41,649	81,992	86,858	87,268	86,771
6	86,942	71,192	44,555	22,249	37,689	41,649	44,136	42,459	82,911	87,222	87,424	86,290
7	87,254	70,714	43,572	22,178	37,622	42,487	44,243	43,203	83,916	87,772	87,723	86,276
8	87,013	69,181	42,704	22,723	37,534	43,457	44,183	43,841	84,139	87,823	87,666	86,107
9	87,140	68,682	41,721	23,182	37,428	44,386	43,842	44,987	83,674	88,074	87,780	85,951
10	87,097	68,172	40,226	23,772	37,408	45,537	43,564	45,743	83,935	88,241	87,951	86,871
11	87,013	67,853	39,798	24,102	37,467	46,145	43,223	46,118	84,923	88,051	87,837	87,851
12	86,587	67,624	38,917	24,768	37,970	46,852	43,185	46,249	85,551	87,447	87,254	88,437
13	85,881	67,320	37,553	26,085	38,057	47,521	43,188	47,015	86,096	87,498	87,750	88,109
14	85,726	67,092	36,708	27,266	38,428	48,468	42,954	48,156	86,317	87,579	87,823	87,823
15	85,233	66,612	36,062	28,544	38,456	49,052	42,977	49,974	85,838	87,659	87,766	87,154
16	84,896	65,782	35,104	30,224	38,477	49,771	43,207	53,094	84,699	87,397	87,823	85,924
17	84,573	65,407	34,361	32,056	38,467	50,186	43,595	53,900	84,127	87,251	88,480	85,739
18	83,818	64,521	33,930	32,617	38,145	50,479	44,035	54,618	84,015	87,615	87,923	85,331
19	83,137	64,049	33,139	32,572	38,486	51,197	44,541	55,865	84,336	87,397	87,823	84,490
20	82,346	63,134	32,145	32,823	38,672	51,548	44,796	58,215	83,623	87,406	87,326	83,930
21	81,808	62,225	31,508	32,896	38,662	51,730	44,968	60,753	83,252	87,485	87,595	82,887
22	80,926	60,737	30,602	33,456	38,732	51,745	45,013	63,994	83,234	87,225	87,823	82,222
23	80,379	60,580	30,060	34,343	38,878	51,579	45,110	66,989	83,548	87,503	87,438	80,939
24	79,750	59,830	29,619	34,408	39,500	51,335	45,166	70,417	83,724	87,455	87,495	80,651
25	78,961	59,050	29,279	34,797	40,007	51,169	45,105	73,498	83,943	87,707	87,495	80,324
26	78,459	58,381	28,661	35,290	40,286	50,757	45,097	75,393	84,414	87,931	86,785	80,187
27	77,742	57,632	27,942	35,647	40,236	50,094	45,037	76,893	84,912	88,039	87,111	79,449
28	77,339	56,242	27,266	35,798	40,367	49,741	44,755	79,275	85,498	87,677	87,807	78,838
29	77,043	54,763	26,496	36,194	---	49,258	44,885	79,239	86,084	87,828	88,121	77,904
30	76,279	53,611	25,826	36,499	---	48,690	44,245	79,323	87,638	87,752	88,151	77,203
31	75,611	---	25,530	36,671	---	47,842	---	79,491	---	88,176	88,036	---
Max	87,254	74,947	52,606	36,671	40,367	51,745	47,055	79,491	87,638	88,584	88,480	88,437
Min	75,611	53,611	25,530	22,178	36,623	40,327	42,954	41,048	80,396	86,858	86,785	77,203
Elevation, in feet, at end of month	6,940.20	6,922.47	6,893.52	6,906.37	6,910.15	6,917.31	6,913.94	6,943.08	6,948.93	6,949.31	6,949.21	6,941.39
Change in contents, in acre-feet	-10,340	-22,000	-28,081	+11,141	+3,696	+7,475	-3,597	+35,246	+8,147	+538	-140	-10,833

	Calendar Year 2004	Water Year 2005
Change in contents, in acre-feet	-6,890	-8,748

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