

11229600 Florence Lake near Big Creek, CA

San Joaquin River Basin

LOCATION.--Lat 37°16'20", long 118°58'17" referenced to North American Datum of 1927, Fresno County, CA, Hydrologic Unit 18040006, unsurveyed, in Sierra National Forest, in gatehouse of Ward Tunnel intake, 0.3 mi west of dam on South Fork San Joaquin River, and 16 mi northeast of town of Big Creek.

DRAINAGE AREA.--171 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1925 to current year. Prior to October 1931, published in WSP 721. Maximum and minimum daily contents (water years 1926-39) summarized in WSP 881. Prior to 1960, maximum and minimum daily contents were published.

REVISED RECORDS.--WDR CA-78-3: 1977; WDR CA-02-3: 2001, Extremes for current year.

GAGE.--Water-stage recorder. Datum 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 nos. 67 and 120. Contents not rounded to U.S. Geological Survey standards.

REMARKS.--Lake is formed by multiple-arch concrete dam; storage began in April 1925. Usable capacity, 64,406 acre-ft, between elevations 7,220.94 ft, throat of Venturi tube in Ward Tunnel intake (station 11229500), and 7,327.50 ft, top of spillway drum gates. Additional storage of 168 acre-ft is not available for diversion. Water is diverted through Ward Tunnel to Huntington Lake (station 11236000) via Portal Powerplant (station 11235500) and used for further power development in Big Creek powerplants. 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, 65,990 acre-ft, July 3, 1932, elevation, 7,329.14 ft; minimum occurred during period of no record, Oct. 2-4, 1926, or Nov. 30 to Dec. 2, 1927.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 61,815 acre-ft, June 8, elevation, 7,324.79 ft; minimum, 1,927 acre-ft, Mar. 19, elevation, 7,235.72 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Southern California Edison Co., dated Aug. 26, 1926)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
7,222	63	7,245	4,666	7,280	24,588
7,225	281	7,250	6,648	7,290	31,966
7,230	887	7,255	8,950	7,310	48,284
7,235	1,774	7,260	11,608	7,330	66,826

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,014	2,226	3,447	5,971	7,175	5,257	5,518	28,332	55,741	46,516	28,191	20,621
2	2,018	2,240	3,881	5,967	7,287	4,908	5,741	29,341	56,867	46,628	27,559	19,932
3	2,023	2,250	4,116	5,955	7,394	4,583	6,036	30,473	58,085	46,749	27,222	18,981
4	2,027	2,261	4,332	5,942	7,492	4,251	6,413	31,480	59,330	46,818	26,719	17,036
5	2,030	2,268	4,551	5,930	7,602	3,928	6,748	32,027	60,460	46,870	25,662	14,513
6	2,032	2,275	4,766	5,918	7,699	3,624	7,077	32,387	61,340	46,887	25,511	11,683
7	2,032	2,282	4,908	5,893	7,791	3,308	7,465	32,502	61,502	46,870	25,360	8,950
8	2,030	2,304	5,004	5,873	7,883	3,001	7,878	32,640	61,786	46,809	25,195	6,417
9	2,030	2,306	5,096	5,869	7,961	2,716	8,183	32,925	61,786	46,731	25,038	4,796
10	2,023	2,304	5,188	5,861	8,036	2,469	8,467	33,256	61,407	46,636	24,852	4,919
11	2,023	2,311	5,281	5,836	8,102	2,247	8,833	33,906	60,318	46,499	24,674	4,964
12	2,030	2,332	5,373	5,816	8,173	2,086	9,358	34,951	59,048	46,293	24,496	4,978
13	2,041	2,346	5,467	5,780	8,240	1,996	9,991	36,296	58,103	46,070	24,304	4,993
14	2,043	2,358	5,550	5,745	8,178	1,976	10,731	37,735	57,312	45,830	24,106	5,008
15	2,048	2,374	5,641	5,717	8,003	1,985	11,441	39,274	56,432	45,591	23,914	5,019
16	2,050	2,416	5,729	5,689	7,832	1,991	11,976	40,643	55,225	45,327	23,710	5,027
17	2,048	2,486	5,816	5,665	7,662	1,981	12,383	41,558	53,870	45,054	23,520	5,027
18	2,045	2,537	5,898	5,649	7,483	1,944	12,760	42,421	52,897	44,782	23,331	5,023
19	2,043	2,588	5,898	5,633	7,313	2,090	13,147	43,306	52,725	44,240	23,183	5,016
20	2,036	2,639	5,848	5,613	7,139	2,416	13,651	44,274	52,743	43,340	23,050	5,004
21	2,032	2,688	5,804	5,598	6,955	2,666	14,373	45,471	51,960	42,304	22,743	5,012
22	2,052	2,736	5,788	5,645	6,786	2,919	15,455	46,680	50,655	41,550	22,366	5,012
23	2,066	2,781	5,768	5,756	6,610	3,166	16,722	47,640	49,363	40,907	22,103	5,019
24	2,090	2,824	5,768	6,048	6,438	3,433	17,935	48,459	48,407	39,518	21,832	5,027
25	2,108	2,864	5,812	6,257	6,262	3,736	19,041	49,275	48,006	37,968	21,557	5,019
26	2,131	2,899	5,853	6,430	6,089	4,001	20,151	50,140	47,675	36,430	21,447	5,016
27	2,153	2,936	5,898	6,577	5,922	4,251	21,447	51,020	47,345	34,927	21,461	5,008
28	2,171	3,011	5,930	6,691	5,617	4,504	23,074	51,924	47,060	33,511	21,482	5,001
29	2,187	3,074	5,963	6,826	---	4,755	24,995	52,825	46,844	32,043	21,495	4,993
30	2,203	3,286	5,979	6,942	---	5,042	26,960	53,751	46,593	30,662	21,454	4,978
31	2,217	---	5,971	7,059	---	5,346	---	54,693	---	29,341	21,241	---
Max	2,217	3,286	5,979	7,059	8,240	5,346	26,960	54,693	61,786	46,887	28,191	20,621
Min	2,014	2,226	3,447	5,598	5,617	1,944	5,518	28,332	46,593	29,341	21,241	4,796
Elevation, in feet, at end of month	7,237.02	7,240.98	7,248.37	7,250.95	7,247.49	7,246.80	7,283.29	7,317.16	7,308.05	7,286.52	7,275.21	7,245.84
Change in contents, in acre-feet	+199	+1,069	+2,685	+1,088	-1,442	-271	+21,614	+27,733	-8,100	-17,252	-8,100	-16,263

	Calendar Year 2012	Water Year 2013
Change in contents, in acre-feet	-31,070	+2,960

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