

11399000 Lake Almanor at Prattville, CA

Sacramento River Basin

LOCATION.--Lat 40°12'46", long 121°09'43" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.11, T.27 N., R.7 E., Plumas County, CA, Hydrologic Unit 18020121, Lassen National Forest, at intake tower to Butt Valley Tunnel at Prattville, 4.7 mi northwest of Lake Almanor Dam, and 5.6 mi northwest of Canyon Dam.

DRAINAGE AREA.--491 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1913 to current year. Monthly contents only for some periods, published in WSP 1315-A. Published as "near Prattville" 1937-60. Prior to October 1964, records published as usable contents.

REVISED RECORDS.--WSP 1931: Drainage area.

GAGE.--Datum of gage is 10.23 ft below NGVD of 1929 (levels by Pacific Gas and Electric Company). Prior to June 1, 1965, nonrecording gage at site 4.7 mi southeast at same datum.

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. 2105.

REMARKS.--Lake is formed by earth-fill dam; storage began in July 1913; dam raised to elevation 4,455 ft in 1917 and 4,515 ft in 1927. Usable capacity, 1,175,000 acre-ft, between elevations 4,422 ft, invert of outlet, and 4,495.5 ft, maximum storage limit. Dead storage, 8,948 acre-ft. Water is diverted by tunnel and penstock to Butt Valley Powerplant (station 11400600) and then is used for power development in the North Fork Feather River. Figures given, including extremes, represent total contents at 2400 hours. See schematic diagram of North Fork Feather River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,142,960 acre-ft, June 8, 1982, elevation, 4,494.00 ft; minimum, 5,230 acre-ft, Feb. 5, 1918, elevation, 4,416.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,130,000 acre-ft, July 3-14, maximum elevation, 4,493.64 ft, July 8, 9; minimum, 800,000 acre-ft, Feb. 6, elevation, 4,480.55 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on surveys by Pacific Gas and Electric Company in 1924 and 1926)**

Gage Height	Contents	Gage Height	Contents	Gage Height	Contents	Gage Height	Contents
4,422	8,948	4,432	34,170	4,445	156,410	4,470	565,520
4,424	10,070	4,434	49,510	4,450	220,850	4,480	787,300
4,426	11,260	4,437	74,190	4,455	294,530	4,490	1,036,300
4,428	13,480	4,440	101,870	4,460	376,690	4,495.5	1,183,800
4,430	21,200						

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	886,000	852,000	828,000	862,000	807,000	839,000	915,000	984,000	1,040,000	1,120,000	1,090,000	1,050,000
2	883,000	851,000	828,000	861,000	804,000	841,000	916,000	986,000	1,050,000	1,120,000	1,090,000	1,040,000
3	882,000	850,000	828,000	860,000	802,000	842,000	918,000	988,000	1,050,000	1,130,000	1,090,000	1,040,000
4	881,000	848,000	829,000	858,000	801,000	843,000	918,000	989,000	1,050,000	1,130,000	1,090,000	1,040,000
5	879,000	847,000	831,000	855,000	801,000	845,000	919,000	991,000	1,060,000	1,130,000	1,090,000	1,040,000
6	879,000	846,000	832,000	853,000	800,000	847,000	920,000	993,000	1,060,000	1,130,000	1,090,000	1,040,000
7	877,000	847,000	832,000	850,000	802,000	849,000	919,000	995,000	1,060,000	1,130,000	1,090,000	1,040,000
8	875,000	846,000	833,000	848,000	802,000	850,000	919,000	1,000,000	1,070,000	1,130,000	1,100,000	1,030,000
9	872,000	845,000	834,000	846,000	803,000	852,000	919,000	1,000,000	1,070,000	1,130,000	1,100,000	1,030,000
10	870,000	846,000	836,000	843,000	804,000	855,000	919,000	1,000,000	1,080,000	1,130,000	1,090,000	1,030,000
11	867,000	845,000	836,000	842,000	805,000	857,000	920,000	1,010,000	1,080,000	1,130,000	1,090,000	1,030,000
12	864,000	843,000	837,000	840,000	806,000	859,000	922,000	1,010,000	1,090,000	1,130,000	1,090,000	1,020,000
13	862,000	842,000	835,000	838,000	807,000	861,000	924,000	1,010,000	1,090,000	1,130,000	1,090,000	1,020,000
14	861,000	841,000	837,000	836,000	810,000	864,000	925,000	1,010,000	1,090,000	1,130,000	1,080,000	1,020,000
15	858,000	840,000	837,000	834,000	815,000	869,000	927,000	1,010,000	1,100,000	1,120,000	1,080,000	1,020,000
16	859,000	839,000	839,000	832,000	819,000	873,000	929,000	1,010,000	1,100,000	1,120,000	1,080,000	1,010,000
17	857,000	839,000	842,000	830,000	822,000	876,000	932,000	1,020,000	1,100,000	1,120,000	1,080,000	1,010,000
18	854,000	837,000	845,000	829,000	824,000	882,000	937,000	1,020,000	1,110,000	1,120,000	1,080,000	1,010,000
19	854,000	837,000	850,000	827,000	826,000	886,000	941,000	1,020,000	1,110,000	1,120,000	1,080,000	1,010,000
20	853,000	838,000	854,000	826,000	827,000	890,000	945,000	1,020,000	1,110,000	1,120,000	1,080,000	1,010,000
21	851,000	837,000	856,000	825,000	829,000	893,000	950,000	1,020,000	1,110,000	1,110,000	1,070,000	1,000,000
22	848,000	836,000	858,000	824,000	829,000	894,000	954,000	1,020,000	1,110,000	1,110,000	1,070,000	1,000,000
23	847,000	835,000	860,000	823,000	830,000	898,000	958,000	1,030,000	1,110,000	1,110,000	1,070,000	999,000
24	851,000	834,000	861,000	821,000	832,000	902,000	963,000	1,030,000	1,110,000	1,110,000	1,070,000	996,000
25	852,000	833,000	863,000	821,000	835,000	905,000	967,000	1,030,000	1,110,000	1,110,000	1,060,000	996,000
26	852,000	831,000	865,000	819,000	836,000	907,000	970,000	1,030,000	1,110,000	1,110,000	1,060,000	997,000
27	853,000	831,000	864,000	816,000	837,000	908,000	972,000	1,030,000	1,120,000	1,100,000	1,060,000	998,000
28	854,000	829,000	864,000	814,000	838,000	909,000	976,000	1,040,000	1,120,000	1,100,000	1,060,000	997,000
29	854,000	829,000	864,000	813,000	---	911,000	978,000	1,040,000	1,120,000	1,100,000	1,050,000	998,000
30	854,000	828,000	864,000	811,000	---	913,000	981,000	1,040,000	1,120,000	1,100,000	1,050,000	996,000
31	853,000	---	862,000	809,000	---	914,000	---	1,040,000	---	1,100,000	1,050,000	---
Max	886,000	852,000	865,000	862,000	838,000	914,000	981,000	1,040,000	1,120,000	1,130,000	1,100,000	1,050,000
Min	847,000	828,000	828,000	809,000	800,000	839,000	915,000	984,000	1,040,000	1,100,000	1,050,000	996,000
Elevation, in feet, at end of month	4,482.75	4,481.71	4,483.13	4,480.92	4,482.13	4,485.22	4,487.86	4,490.25	4,493.15	4,492.28	4,490.50	4,488.47
Change in contents, in acre-feet	-34,000	-25,000	+34,000	-53,000	+29,000	+76,000	+67,000	+59,000	+80,000	-20,000	-50,000	-54,000

	Calendar Year 2010	Water Year 2011
Max	1,060,000	1,130,000
Min	763,000	800,000
Change in contents, in acre-feet	+101,000	+109,000

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