



Water-Data Report 2010

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, 1,060,000 acre-ft, June 20 to July 7, maximum elevation, 4,491.01 ft, June 29, 30; minimum, 717,000 acre-ft, Nov. 5-7, minimum elevation, 4,476.96 ft, Nov. 6.

**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						

11399000 Lake Almanor at Prattville, CA—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	767,000	725,000	735,000	763,000	812,000	848,000	883,000	934,000	1,010,000	1,060,000	1,020,000	943,000
2	765,000	723,000	736,000	764,000	813,000	850,000	885,000	937,000	1,010,000	1,060,000	1,010,000	941,000
3	764,000	721,000	736,000	764,000	814,000	852,000	886,000	939,000	1,020,000	1,060,000	1,010,000	938,000
4	762,000	720,000	737,000	765,000	816,000	853,000	888,000	941,000	1,020,000	1,060,000	1,010,000	937,000
5	761,000	717,000	738,000	766,000	818,000	854,000	889,000	944,000	1,020,000	1,060,000	1,010,000	935,000
6	758,000	717,000	738,000	767,000	819,000	856,000	890,000	946,000	1,030,000	1,060,000	1,000,000	933,000
7	757,000	717,000	739,000	768,000	820,000	857,000	891,000	948,000	1,030,000	1,060,000	1,000,000	930,000
8	755,000	718,000	739,000	769,000	821,000	858,000	892,000	951,000	1,040,000	1,050,000	1,000,000	928,000
9	754,000	718,000	739,000	770,000	823,000	860,000	893,000	953,000	1,040,000	1,050,000	999,000	926,000
10	752,000	719,000	740,000	771,000	823,000	861,000	894,000	957,000	1,040,000	1,050,000	996,000	922,000
11	751,000	720,000	742,000	771,000	824,000	862,000	896,000	959,000	1,050,000	1,050,000	993,000	922,000
12	749,000	721,000	745,000	776,000	825,000	864,000	897,000	961,000	1,050,000	1,050,000	991,000	922,000
13	751,000	721,000	746,000	779,000	826,000	862,000	899,000	963,000	1,050,000	1,050,000	988,000	922,000
14	751,000	722,000	746,000	780,000	828,000	860,000	900,000	965,000	1,050,000	1,040,000	986,000	922,000
15	750,000	723,000	748,000	782,000	829,000	861,000	901,000	968,000	1,050,000	1,040,000	984,000	921,000
16	749,000	723,000	749,000	783,000	830,000	862,000	902,000	971,000	1,050,000	1,040,000	983,000	920,000
17	748,000	724,000	750,000	786,000	831,000	863,000	903,000	974,000	1,050,000	1,040,000	980,000	918,000
18	746,000	725,000	751,000	790,000	832,000	864,000	904,000	977,000	1,050,000	1,040,000	978,000	915,000
19	745,000	725,000	751,000	793,000	833,000	865,000	906,000	979,000	1,050,000	1,040,000	976,000	912,000
20	743,000	727,000	752,000	797,000	835,000	866,000	908,000	983,000	1,060,000	1,030,000	973,000	909,000
21	742,000	728,000	754,000	800,000	836,000	867,000	909,000	986,000	1,060,000	1,030,000	970,000	907,000
22	740,000	729,000	755,000	801,000	837,000	868,000	911,000	988,000	1,060,000	1,030,000	967,000	904,000
23	739,000	729,000	755,000	802,000	839,000	869,000	913,000	990,000	1,060,000	1,030,000	965,000	903,000
24	737,000	730,000	756,000	803,000	840,000	870,000	914,000	992,000	1,060,000	1,030,000	962,000	901,000
25	737,000	730,000	757,000	805,000	841,000	872,000	917,000	994,000	1,060,000	1,030,000	959,000	898,000
26	736,000	731,000	758,000	806,000	844,000	874,000	918,000	997,000	1,060,000	1,030,000	957,000	896,000
27	735,000	733,000	758,000	807,000	845,000	874,000	924,000	999,000	1,060,000	1,020,000	954,000	894,000
28	733,000	734,000	759,000	808,000	847,000	875,000	928,000	1,000,000	1,060,000	1,020,000	952,000	891,000
29	731,000	734,000	760,000	809,000	---	877,000	930,000	1,000,000	1,060,000	1,020,000	950,000	890,000
30	729,000	734,000	761,000	810,000	---	880,000	932,000	1,000,000	1,060,000	1,020,000	948,000	887,000
31	727,000	---	761,000	811,000	---	882,000	---	1,010,000	---	1,020,000	946,000	---
Max	767,000	734,000	761,000	811,000	847,000	882,000	932,000	1,010,000	1,060,000	1,060,000	1,020,000	943,000
Min	727,000	717,000	735,000	763,000	812,000	848,000	883,000	934,000	1,010,000	1,020,000	946,000	887,000
Elevation, in feet, at end of month	4,477.41	4,477.73	4,478.90	4,480.99	4,482.48	4,483.92	4,485.96	4,488.90	4,491.01	4,489.29	4,486.48	4,484.14
Change in contents, in acre-feet	-42,000	+7,000	+27,000	+50,000	+36,000	+35,000	+50,000	+78,000	+50,000	-40,000	-74,000	-59,000

	Calendar Year 2009	Water Year 2010
Max	950,000	1,060,000
Min	707,000	717,000
Change in contents, in acre-feet	+54,000	+118,000

11399000 Lake Almanor at Prattville, CA—Continued

