



Water-Data Report 2009

**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 mi<sup>2</sup>.

**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, 950,000 acre-ft, June 26, 27, maximum elevation, 4,486.65 ft, June 26; minimum, 702,000 acre-ft, several days in December, minimum elevation, 4,476.30 ft, Dec. 19.

**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 2008 TO SEPTEMBER 2009**  
**DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	756,000	718,000	705,000	707,000	731,000	775,000	827,000	870,000	931,000	946,000	890,000	814,000
2	753,000	719,000	705,000	708,000	732,000	781,000	829,000	874,000	932,000	945,000	888,000	812,000
3	752,000	722,000	705,000	708,000	733,000	787,000	829,000	877,000	933,000	943,000	885,000	810,000
4	751,000	721,000	705,000	708,000	734,000	790,000	830,000	881,000	934,000	942,000	883,000	809,000
5	748,000	721,000	704,000	708,000	735,000	792,000	831,000	886,000	936,000	941,000	880,000	806,000
6	747,000	721,000	704,000	709,000	736,000	794,000	833,000	889,000	937,000	939,000	878,000	805,000
7	744,000	721,000	704,000	710,000	736,000	796,000	834,000	892,000	938,000	938,000	875,000	803,000
8	742,000	721,000	703,000	710,000	737,000	797,000	835,000	895,000	938,000	937,000	873,000	802,000
9	740,000	721,000	703,000	711,000	738,000	798,000	836,000	897,000	939,000	935,000	871,000	800,000
10	737,000	721,000	703,000	712,000	739,000	799,000	838,000	899,000	941,000	933,000	868,000	798,000
11	735,000	720,000	702,000	712,000	740,000	801,000	839,000	901,000	941,000	932,000	865,000	797,000
12	733,000	720,000	702,000	713,000	741,000	802,000	840,000	903,000	942,000	930,000	862,000	795,000
13	731,000	719,000	702,000	714,000	744,000	803,000	842,000	905,000	944,000	928,000	859,000	793,000
14	729,000	718,000	702,000	715,000	745,000	804,000	842,000	907,000	945,000	927,000	857,000	792,000
15	728,000	717,000	703,000	716,000	747,000	805,000	843,000	909,000	946,000	925,000	854,000	791,000
16	726,000	717,000	703,000	716,000	748,000	807,000	844,000	911,000	946,000	924,000	852,000	789,000
17	724,000	717,000	702,000	717,000	750,000	808,000	846,000	913,000	946,000	922,000	850,000	788,000
18	723,000	716,000	702,000	718,000	750,000	810,000	847,000	915,000	946,000	920,000	847,000	787,000
19	721,000	715,000	702,000	719,000	750,000	811,000	848,000	917,000	946,000	918,000	845,000	786,000
20	719,000	715,000	702,000	719,000	749,000	812,000	850,000	919,000	947,000	916,000	842,000	785,000
21	718,000	714,000	702,000	720,000	748,000	814,000	852,000	920,000	947,000	914,000	840,000	783,000
22	717,000	713,000	703,000	722,000	752,000	816,000	854,000	921,000	948,000	912,000	838,000	782,000
23	717,000	712,000	703,000	724,000	757,000	817,000	856,000	923,000	948,000	910,000	835,000	781,000
24	716,000	711,000	705,000	726,000	760,000	818,000	859,000	924,000	949,000	907,000	833,000	780,000
25	715,000	710,000	706,000	728,000	763,000	819,000	860,000	926,000	949,000	905,000	830,000	779,000
26	715,000	709,000	706,000	728,000	765,000	820,000	862,000	929,000	950,000	903,000	828,000	777,000
27	714,000	709,000	707,000	729,000	767,000	822,000	863,000	929,000	950,000	901,000	825,000	776,000
28	713,000	708,000	707,000	729,000	769,000	823,000	864,000	929,000	949,000	899,000	823,000	773,000
29	712,000	708,000	707,000	730,000	---	824,000	865,000	929,000	949,000	897,000	820,000	772,000
30	712,000	707,000	706,000	730,000	---	825,000	867,000	930,000	948,000	894,000	818,000	769,000
31	713,000	---	707,000	731,000	---	826,000	---	930,000	---	892,000	815,000	---
<b>Max</b>	756,000	722,000	707,000	731,000	769,000	826,000	867,000	930,000	950,000	946,000	890,000	814,000
<b>Min</b>	712,000	707,000	702,000	707,000	731,000	775,000	827,000	870,000	931,000	892,000	815,000	769,000
<b>Gage height, in feet, at end of month</b>	4,476.79	4,476.51	4,476.51	4,477.58	4,479.22	4,481.62	4,483.31	4,485.88	4,486.56	4,484.35	4,481.18	4,479.21
<b>Change in contents, in acre-feet</b>	-45,000	-6,000	0	+24,000	+38,000	+57,000	+41,000	+63,000	+18,000	-56,000	-77,000	-46,000

	Calendar Year 2008	Water Year 2009
<b>Max</b>	902,000	950,000
<b>Min</b>	702,000	702,000
<b>Change in contents, in acre-feet</b>	+11,000	-3,000

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