



Water-Data Report 2008

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, 902,000 acre-ft, July 8-13, maximum elevation, 4,484.75 ft, July 9-11; minimum, 707,000 acre-ft, Jan. 2, 3, elevation, 4,476.53 ft.

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

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
4,422	8,948	4,432	34,173	4,445	156,414	4,470	565,519
4,424	10,067	4,434	49,510	4,450	220,848	4,480	787,304
4,426	11,260	4,437	74,189	4,455	294,531	4,490	1,036,269
4,428	13,480	4,440	101,869	4,460	376,686	4,495.5	1,183,835
4,430	21,200						

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**RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	794,000	762,000	726,000	709,000	729,000	739,000	780,000	823,000	881,000	901,000	889,000	836,000
2	791,000	761,000	725,000	707,000	729,000	740,000	781,000	825,000	882,000	901,000	888,000	833,000
3	788,000	760,000	725,000	707,000	728,000	741,000	783,000	827,000	883,000	901,000	887,000	831,000
4	786,000	759,000	724,000	712,000	726,000	742,000	783,000	828,000	884,000	901,000	886,000	828,000
5	784,000	758,000	724,000	712,000	724,000	743,000	785,000	830,000	885,000	901,000	886,000	825,000
6	783,000	757,000	723,000	712,000	722,000	744,000	786,000	833,000	886,000	901,000	885,000	823,000
7	781,000	756,000	722,000	712,000	720,000	745,000	788,000	835,000	887,000	901,000	884,000	820,000
8	780,000	755,000	721,000	714,000	719,000	746,000	789,000	837,000	888,000	902,000	884,000	817,000
9	777,000	755,000	720,000	713,000	721,000	747,000	790,000	839,000	889,000	902,000	883,000	815,000
10	777,000	755,000	719,000	712,000	723,000	748,000	791,000	841,000	889,000	902,000	882,000	812,000
11	776,000	755,000	718,000	711,000	723,000	749,000	792,000	843,000	890,000	902,000	882,000	809,000
12	774,000	754,000	717,000	710,000	723,000	751,000	794,000	845,000	890,000	902,000	882,000	806,000
13	773,000	753,000	715,000	710,000	722,000	753,000	795,000	847,000	891,000	902,000	882,000	803,000
14	771,000	752,000	714,000	710,000	722,000	755,000	797,000	849,000	892,000	901,000	882,000	801,000
15	770,000	750,000	714,000	711,000	722,000	757,000	798,000	851,000	893,000	901,000	881,000	798,000
16	768,000	749,000	714,000	712,000	722,000	759,000	799,000	854,000	893,000	900,000	878,000	795,000
17	767,000	748,000	713,000	712,000	722,000	760,000	801,000	856,000	894,000	899,000	875,000	792,000
18	766,000	746,000	714,000	714,000	722,000	761,000	803,000	859,000	895,000	899,000	873,000	789,000
19	766,000	745,000	715,000	715,000	723,000	763,000	804,000	861,000	895,000	898,000	870,000	787,000
20	765,000	743,000	715,000	715,000	724,000	764,000	805,000	863,000	896,000	897,000	867,000	784,000
21	765,000	741,000	714,000	717,000	725,000	765,000	807,000	865,000	897,000	897,000	865,000	781,000
22	765,000	739,000	714,000	717,000	727,000	767,000	808,000	866,000	897,000	896,000	863,000	778,000
23	764,000	738,000	713,000	718,000	730,000	768,000	810,000	867,000	898,000	895,000	860,000	775,000
24	764,000	736,000	713,000	718,000	733,000	769,000	811,000	869,000	899,000	895,000	858,000	773,000
25	763,000	736,000	714,000	718,000	734,000	771,000	812,000	871,000	899,000	894,000	855,000	770,000
26	763,000	735,000	715,000	724,000	735,000	772,000	814,000	873,000	900,000	893,000	852,000	767,000
27	763,000	733,000	715,000	728,000	736,000	774,000	816,000	875,000	901,000	892,000	850,000	764,000
28	762,000	731,000	714,000	729,000	737,000	775,000	818,000	876,000	901,000	891,000	848,000	762,000
29	763,000	730,000	714,000	728,000	738,000	776,000	820,000	878,000	901,000	891,000	845,000	759,000
30	763,000	728,000	712,000	729,000	---	778,000	821,000	879,000	901,000	890,000	842,000	758,000
31	763,000	---	710,000	729,000	---	779,000	---	880,000	---	889,000	839,000	---
Max	794,000	762,000	726,000	729,000	738,000	779,000	821,000	880,000	901,000	902,000	889,000	836,000
Min	762,000	728,000	710,000	707,000	719,000	739,000	780,000	823,000	881,000	889,000	839,000	758,000
Elevation, in feet, at end of month	4,478.95	4,477.46	4,476.68	4,477.51	4,477.89	4,479.63	4,481.43	4,483.86	4,484.71	4,484.23	4,482.18	4,478.77
Change in contents, in acre-feet	-34,000	-35,000	-18,000	+19,000	+9,000	+41,000	+42,000	+59,000	+21,000	-12,000	-50,000	-81,000

	Calendar Year 2007	Water Year 2008
Max	945,000	902,000
Min	710,000	707,000
Change in contents, in acre-feet	-93,000	-39,000

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