



Water-Data Report 2006

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, 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 earthfill dam; storage began in July 1913; dam raised to gage height 4,455 ft in 1917 and 4,515 ft in 1927. Usable capacity, 1,175,000 acre-ft, between gage heights 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.

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,120,000 acre-ft, May 18 to June 2, maximum gage height, 4,493.32 ft, May 27; minimum, 774,000 acre-ft, Oct. 23-25, minimum gage height, 4,479.42 ft, Oct. 24.

**Capacity table (gage height, 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 2005 TO SEPTEMBER 2006
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	807,000	778,000	808,000	924,000	939,000	966,000	1,000,000	1,080,000	1,120,000	1,090,000	1,060,000	995,000
2	805,000	780,000	810,000	930,000	939,000	970,000	1,000,000	1,080,000	1,120,000	1,090,000	1,060,000	992,000
3	804,000	781,000	812,000	937,000	939,000	971,000	1,010,000	1,090,000	1,110,000	1,090,000	1,050,000	989,000
4	802,000	782,000	813,000	940,000	940,000	972,000	1,010,000	1,090,000	1,110,000	1,090,000	1,050,000	987,000
5	800,000	783,000	813,000	943,000	940,000	975,000	1,020,000	1,090,000	1,110,000	1,090,000	1,050,000	985,000
6	799,000	783,000	814,000	945,000	939,000	978,000	1,020,000	1,090,000	1,110,000	1,090,000	1,050,000	984,000
7	798,000	787,000	815,000	947,000	939,000	982,000	1,020,000	1,100,000	1,110,000	1,090,000	1,050,000	983,000
8	797,000	790,000	816,000	948,000	939,000	985,000	1,030,000	1,100,000	1,110,000	1,090,000	1,050,000	981,000
9	796,000	791,000	817,000	948,000	938,000	988,000	1,030,000	1,100,000	1,110,000	1,090,000	1,050,000	979,000
10	794,000	792,000	817,000	948,000	938,000	991,000	1,030,000	1,100,000	1,110,000	1,090,000	1,040,000	978,000
11	792,000	792,000	818,000	949,000	938,000	994,000	1,040,000	1,100,000	1,110,000	1,090,000	1,040,000	977,000
12	791,000	793,000	819,000	950,000	939,000	996,000	1,040,000	1,100,000	1,100,000	1,090,000	1,040,000	975,000
13	789,000	793,000	820,000	950,000	939,000	999,000	1,050,000	1,100,000	1,100,000	1,090,000	1,040,000	973,000
14	786,000	794,000	818,000	952,000	940,000	1,000,000	1,050,000	1,110,000	1,100,000	1,090,000	1,030,000	972,000
15	786,000	794,000	816,000	952,000	941,000	1,000,000	1,050,000	1,110,000	1,100,000	1,080,000	1,030,000	970,000
16	784,000	795,000	815,000	952,000	941,000	1,010,000	1,060,000	1,110,000	1,100,000	1,080,000	1,030,000	968,000
17	784,000	795,000	813,000	952,000	942,000	1,010,000	1,060,000	1,110,000	1,100,000	1,080,000	1,030,000	966,000
18	782,000	795,000	815,000	953,000	943,000	1,010,000	1,060,000	1,120,000	1,100,000	1,080,000	1,020,000	964,000
19	781,000	796,000	817,000	952,000	943,000	1,000,000	1,060,000	1,120,000	1,100,000	1,080,000	1,020,000	962,000
20	779,000	796,000	817,000	952,000	943,000	1,000,000	1,060,000	1,120,000	1,100,000	1,080,000	1,020,000	961,000
21	778,000	796,000	823,000	953,000	943,000	1,000,000	1,060,000	1,120,000	1,100,000	1,080,000	1,020,000	961,000
22	776,000	797,000	836,000	952,000	943,000	1,000,000	1,060,000	1,120,000	1,100,000	1,080,000	1,020,000	958,000
23	774,000	797,000	844,000	950,000	943,000	998,000	1,060,000	1,120,000	1,100,000	1,080,000	1,020,000	955,000
24	774,000	797,000	848,000	949,000	943,000	997,000	1,060,000	1,120,000	1,100,000	1,070,000	1,010,000	954,000
25	774,000	799,000	854,000	947,000	944,000	998,000	1,070,000	1,120,000	1,100,000	1,070,000	1,010,000	952,000
26	775,000	799,000	860,000	945,000	944,000	997,000	1,070,000	1,120,000	1,100,000	1,070,000	1,010,000	950,000
27	775,000	799,000	865,000	942,000	953,000	997,000	1,070,000	1,120,000	1,100,000	1,070,000	1,010,000	948,000
28	776,000	801,000	879,000	941,000	962,000	997,000	1,070,000	1,120,000	1,100,000	1,060,000	1,000,000	946,000
29	777,000	802,000	886,000	939,000	---	996,000	1,070,000	1,120,000	1,090,000	1,060,000	1,000,000	946,000
30	777,000	802,000	895,000	940,000	---	997,000	1,080,000	1,120,000	1,090,000	1,060,000	999,000	945,000
31	778,000	---	913,000	939,000	---	998,000	---	1,120,000	---	1,060,000	997,000	---
Max	807,000	802,000	913,000	953,000	962,000	1,010,000	1,080,000	1,120,000	1,120,000	1,090,000	1,060,000	995,000
Min	774,000	778,000	808,000	924,000	938,000	966,000	1,000,000	1,080,000	1,090,000	1,060,000	997,000	945,000
Elevation, in feet, at end of month	4,479.60	4,480.63	4,485.18	4,486.21	4,487.13	4,488.55	4,491.54	4,493.13	4,492.17	4,490.74	4,488.49	4,486.46
Change in contents, in acre-feet	-30,000	+24,000	+111,000	+26,000	+23,000	+36,000	+82,000	+40,000	-30,000	-30,000	-63,000	-52,000

	Calendar Year 2005	Water Year 2006
Max	1,019,239	1,120,000
Min	731,407	774,000
Change in contents, in acre-feet	+150,000	+137,000

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