

11470000 Lake Pillsbury near Potter Valley, CA

Eel River Basin

LOCATION.--Lat 39°24'30", long 122°57'30" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.14, T.18 N., R.10 W., Lake County, CA, Hydrologic Unit 18010103, Mt Diablo meridian, 10.2 mi northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."

WATER TEMPERATURE: Water years 1966-68.

GAGE.--Water-stage recorder. Datum of gage is 81.7 ft below NGVD of 1929 (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

COOPERATION.--Records 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. 77.

REMARKS.--Reservoir is formed by concrete overflow-type dam; storage began in December 1921. Beginning Oct. 1, 2005, capacity based on 2005 resurvey. Usable capacity, 74,960 acre-ft, between gage heights 1,822.4 ft, sill of outlet gate, and 1,910.0 ft, top of spillway gates; dead storage, 33 acre-ft. Current capacity table was put into use Oct. 1, 2005. Water is released down Eel River to Van Arsdale Reservoir, most of which is diverted through tunnel to Potter Valley Powerplant (station 11477100); part is then used for irrigation and remainder flows into East Fork Russian River. Records given, including extremes, represent total contents at 2400 hours. See schematic diagram of Eel River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 95,600 acre-ft, May 13, 16, 1925, gage height, 1,910.8 ft, maximum gage height, 1,911.84 ft, Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft, Dec. 9, 10, 1931, gage height, 1,822.5 ft.

**Capacity table (Gage Height in feet and contents in acre-feet)
(Based on table provided by Pacific Gas and Electric Company, dated August 2005)**

Gage Height	Contents						
1,822.4	33	1,840	1,907	1,865	12,016	1,890	37,613
1,824	70	1,845	3,189	1,870	15,467	1,895	45,534
1,827	194	1,850	4,806	1,875	19,546	1,900	54,339
1,830	408	1,855	6,735	1,880	24,521	1,905	64,150
1,835	995	1,860	9,102	1,885	30,579	1,910	74,993

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	38,100	26,300	24,000	45,100	40,500	56,000	65,500	66,400	60,100	52,200	43,200	33,800
2	37,800	26,300	23,800	45,000	40,200	55,800	65,600	66,400	59,900	51,900	42,900	33,500
3	37,300	26,300	23,700	45,000	39,900	55,800	65,700	66,300	59,600	51,600	42,600	33,200
4	36,900	26,200	23,500	45,600	39,600	56,000	65,800	66,300	59,300	51,300	42,300	32,900
5	36,600	26,100	23,300	46,300	39,300	56,000	65,600	66,300	59,100	51,100	41,900	32,500
6	36,300	26,000	23,200	46,600	39,000	56,000	65,500	66,200	58,800	50,800	41,600	32,200
7	35,900	25,900	23,000	46,800	38,800	56,000	65,600	66,000	58,500	50,500	41,300	31,900
8	35,600	25,800	22,800	46,800	39,000	55,900	65,600	65,900	58,300	50,200	41,000	31,600
9	35,300	25,700	22,500	46,900	42,800	55,800	65,700	65,700	58,000	49,900	40,700	31,300
10	34,900	25,600	22,700	46,800	50,300	55,800	65,600	65,500	57,800	49,600	40,400	31,000
11	34,500	25,600	22,900	46,700	58,000	55,700	65,600	65,300	57,500	49,300	40,100	30,800
12	34,100	25,500	25,000	46,600	57,300	56,000	65,500	65,000	57,300	49,100	39,800	30,500
13	33,700	25,600	26,100	46,500	56,800	57,100	65,400	64,800	57,000	48,800	39,500	30,200
14	33,300	25,700	27,000	46,200	56,400	58,200	65,300	64,600	56,700	48,500	39,200	29,900
15	32,800	25,700	27,900	45,700	56,000	59,100	65,200	64,400	56,500	48,200	38,900	29,600
16	32,500	25,700	28,800	45,400	55,600	59,800	65,200	64,100	56,200	47,900	38,600	29,300
17	32,000	25,600	29,700	45,100	55,400	60,600	65,100	63,900	56,000	47,600	38,300	29,100
18	31,600	25,500	30,600	44,800	55,200	61,300	65,000	63,600	55,700	47,300	38,000	28,900
19	31,200	25,300	31,000	44,500	55,000	62,000	65,000	63,300	55,400	47,000	37,700	28,700
20	30,700	25,100	30,700	44,200	54,900	62,500	64,900	63,100	55,200	46,700	37,400	28,500
21	30,300	24,900	31,100	43,800	54,900	63,000	65,000	62,800	54,900	46,400	37,100	28,300
22	29,900	24,700	32,800	43,500	55,900	63,500	65,900	62,600	54,600	46,200	36,800	28,000
23	29,500	24,600	33,100	43,200	56,200	64,000	66,500	62,400	54,400	45,900	36,500	27,900
24	29,100	24,500	33,100	42,900	55,900	64,500	66,700	62,100	54,100	45,600	36,200	27,600
25	28,600	24,300	33,000	42,500	57,700	65,000	66,800	61,900	53,800	45,300	35,900	27,400
26	28,200	24,300	34,100	42,200	57,400	65,200	66,800	61,600	53,600	45,000	35,600	27,200
27	27,900	24,300	41,400	41,900	56,900	65,200	66,800	61,400	53,300	44,700	35,300	27,000
28	27,500	24,400	43,700	41,600	56,400	65,200	66,700	61,100	53,000	44,400	35,000	26,800
29	27,200	24,300	44,500	41,300	---	65,300	66,700	60,900	52,700	44,100	34,700	26,600
30	26,900	24,200	44,900	41,100	---	65,300	66,600	60,600	52,500	43,800	34,400	26,400
31	26,600	---	45,000	40,800	---	65,400	---	60,400	---	43,500	34,100	---
Mean	32,348	25,333	29,965	44,561	50,761	60,097	65,763	63,900	56,327	47,884	38,613	29,753
Max	38,100	26,300	45,000	46,900	58,000	65,400	66,800	66,400	60,100	52,200	43,200	33,800
Min	26,600	24,200	22,500	40,800	38,800	55,700	64,900	60,400	52,500	43,500	34,100	26,400
Gage height in feet, at end of month	1881.65	1879.62	1894.72	1891.95	1900.99	1905.61	1906.11	1903.07	1898.89	1893.66	1887.47	1881.57
Change in contents, in acre-feet	-11700	-2400	20800	-4200	15600	9000	1200	-6200	-7900	-9000	-9400	-7700

	Calendar Year 2006	Water Year 2007
Mean	51,730	45,411
Max	73,700	66,800
Min	22,500	22,500
Change in contents, in acre-feet	-20,800	-11,700

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