



Water-Data Report 2006

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, 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 and nonrecording gage. 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, 1985, capacity based on 1984 resurvey. Usable capacity, 80,560 acre-ft, between gage heights 1,822.4 ft, sill of outlet gate, and 1,910.0 ft, top of spillway gates; dead storage, 87 acre-ft. 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.

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

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	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 2005 TO SEPTEMBER 2006
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	51,500	44,200	53,500	63,300	58,900	58,200	58,000	67,300	71,400	66,300	58,000	48,000
2	51,200	44,000	55,500	60,300	58,900	57,600	58,000	67,800	71,100	66,100	57,700	47,700
3	51,000	43,900	55,400	59,700	58,200	57,300	59,400	68,800	71,000	65,900	57,400	47,400
4	50,700	43,800	55,100	59,300	57,700	56,800	58,400	69,500	70,900	65,700	57,000	47,000
5	50,500	43,600	54,900	57,900	57,200	59,400	57,800	70,100	70,800	65,300	56,700	46,700
6	50,200	43,400	54,800	57,400	56,800	58,900	57,400	70,500	70,600	65,100	56,400	46,400
7	50,000	44,300	54,700	57,000	56,500	58,300	57,200	70,500	70,300	64,800	56,100	46,100
8	49,700	44,800	54,600	56,700	56,300	57,500	57,100	70,300	70,200	64,600	55,800	45,700
9	49,500	44,800	54,600	56,400	56,100	57,200	57,100	70,200	70,000	64,400	55,500	45,400
10	49,200	44,700	54,500	56,300	56,000	56,800	58,400	70,300	69,900	64,200	55,100	45,100
11	48,900	44,600	54,400	56,500	55,900	56,600	60,500	70,800	69,800	63,900	54,800	44,800
12	48,800	44,400	54,400	56,300	55,700	56,400	67,000	71,500	69,600	63,600	54,500	44,400
13	48,800	44,200	54,300	56,200	55,600	56,400	66,000	72,100	69,400	63,300	54,200	44,100
14	48,800	44,100	54,200	56,600	55,600	56,800	64,300	72,700	69,300	63,100	53,900	43,700
15	48,800	43,900	54,100	56,300	55,500	56,600	63,900	73,200	69,200	62,700	53,500	43,400
16	48,800	43,700	54,000	56,200	55,400	58,000	64,100	73,600	69,100	62,600	53,200	43,100
17	47,500	43,500	54,000	57,300	55,400	57,600	63,800	73,700	69,000	62,200	52,900	42,900
18	47,200	43,300	56,200	58,200	55,400	57,000	63,900	73,600	68,900	61,900	52,600	42,700
19	47,000	43,100	59,000	57,400	55,300	56,700	64,400	73,300	68,800	61,600	52,200	42,400
20	46,800	43,000	58,500	57,100	55,300	56,600	65,500	73,000	68,700	61,400	51,900	42,100
21	46,500	42,800	60,300	56,800	55,200	56,400	66,400	72,700	68,500	61,100	51,600	41,800
22	46,300	42,600	61,400	56,500	55,200	56,300	66,500	72,700	68,300	60,800	51,300	41,400
23	46,000	42,400	58,300	56,300	55,200	56,300	66,000	72,600	68,100	60,500	51,000	41,000
24	45,800	42,200	57,000	56,200	55,100	57,300	65,800	72,500	68,000	60,200	50,600	40,600
25	45,600	42,200	56,900	56,100	55,100	58,300	65,900	72,500	67,700	59,900	50,300	40,200
26	45,400	42,100	58,400	56,000	55,200	57,600	66,000	72,400	67,500	59,900	50,000	39,800
27	45,200	42,000	62,300	55,900	59,600	57,300	66,300	72,300	67,200	59,600	49,700	39,300
28	45,100	42,900	64,100	56,400	59,600	57,300	67,000	72,200	67,000	59,200	49,300	38,900
29	44,900	43,900	59,700	56,400	---	57,200	67,600	72,000	66,800	58,900	49,000	38,500
30	44,700	44,300	67,300	57,500	---	57,000	67,600	71,800	66,600	58,600	48,700	38,100
31	44,500	---	65,800	57,000	---	57,800	---	71,500	---	58,300	48,400	---
Total	1,484,900	1,306,700	1,772,200	1,773,500	1,577,900	1,775,500	1,887,300	2,218,000	2,073,700	1,935,700	1,649,300	1,298,700
Mean	47,900	43,557	57,168	57,210	56,354	57,274	62,910	71,548	69,123	62,442	53,203	43,290
Max	51,500	44,800	67,300	63,300	59,600	59,400	67,600	73,700	71,400	66,300	58,000	48,000
Min	44,500	42,000	53,500	55,900	55,100	56,300	57,100	67,300	66,600	58,300	48,400	38,100
Elevation in feet, at end of month	1894.35	1894.26	1905.79	1901.44	1902.77	1901.82	1906.63	1908.46	1906.17	1902.08	1896.67	1890.35
Change in contents, in acre-feet	-7300	-200	21,500	-8800	2600	-1800	9800	3900	-4900	-8300	-9900	-10300

	Calendar Year 2005	Water Year 2006
Total	23,785,400	20,753,400
Mean	65,165	56,859
Max	80,800	73,700
Min	42,000	38,100

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