

11436950 Caples Lake near Kirkwood, CA

Sacramento River Basin

LOCATION.--Lat 38°42'27", long 120°02'55" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.18, T.10 N., R.18 E., Alpine County, CA, Hydrologic Unit 18020129, Eldorado National Forest, on Caples Lake Dam near the center of the earthfill portion, and 1.3 mi east of Kirkwood.

DRAINAGE AREA.--13.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1985 to current year. Unpublished records for water years 1981-85 available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder since Oct. 1, 1991. Datum of gage is 7,894.0 ft above NGVD of 1929 (levels by Pacific Gas and Electric Company). Prior to Oct. 1, 1991, nonrecording gage read periodically except for Oct. 16, 1986, to Sept. 30, 1987; Dec. 18, 1990, to May 26, 1991; and July 30 to Sept. 16, 1991, when there was a water-stage recorder at same site and datum.

COOPERATION.--Records were collected by El Dorado Irrigation District, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 184.

REMARKS.--Lake is formed by one earthfill and one concrete dam at spillway; dam was completed and storage began in 1924. Capacity, 21,580 acre-ft, between gage heights 6.0 and 62.0 ft, top of 3 ft of flashboards; capacity, 19,751 acre-ft, at spillway level. Released water is measured at Caples Creek Release (station 11436999). When gage height is above spillway crest of 59.0 ft, there is leakage or spill which is not measured. Released water is used for power development on South Fork American River. See schematic diagram of South Fork American River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 22,505 acre-ft, June 28, 29, 2003, gage height, 62.27 ft; minimum, 2,427 acre-ft, Mar. 30, 31, 1987, gage height, 20.7 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 21,600 acre-ft, June 14-16, maximum gage height, 60.81 ft, June 15; minimum, 10,400 acre-ft, Feb. 6, 7, minimum gage height, 40.18 ft, Feb. 7.

**Capacity table (gage height, in feet, and contents, in acre-feet)
(Based on survey by El Dorado Irrigation District, dated Sept. 30, 1999)**

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
15.0	1,347	30.0	6,086	45.0	12,743	60.0	21,103
20.0	2,665	35.0	8,129	50.0	15,331	63.0	22,338
25.0	4,254	40.0	10,349	55.0	18,122		

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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	17,900	16,600	15,600	13,100	10,500	10,900	11,900	14,900	20,600	19,900	18,300	16,200
2	17,900	16,600	15,500	12,900	10,500	10,900	11,900	15,100	20,700	19,800	18,200	16,100
3	17,900	16,600	15,400	12,700	10,500	10,900	12,000	15,200	20,900	19,700	18,100	16,000
4	17,900	16,500	15,400	12,700	10,500	10,800	12,100	15,300	21,000	19,600	18,100	15,900
5	17,900	16,500	15,300	12,500	10,500	10,900	12,200	15,300	21,100	19,500	18,000	15,800
6	17,800	16,400	15,200	12,400	10,400	10,800	12,300	15,400	21,200	19,400	17,900	15,800
7	17,800	16,400	15,100	12,300	10,400	10,800	12,500	15,500	21,200	19,300	17,900	15,700
8	17,800	16,300	15,100	12,200	10,500	10,900	12,600	15,600	21,300	19,200	17,900	15,700
9	17,700	16,300	15,000	12,000	10,500	10,800	12,800	15,900	21,300	19,100	17,800	15,700
10	17,800	16,200	15,000	11,900	10,500	10,800	12,900	16,200	21,400	19,100	17,800	15,600
11	17,700	16,200	14,900	11,800	10,600	10,800	13,000	16,500	21,400	19,000	17,700	15,600
12	17,700	16,100	14,900	11,700	10,600	10,900	13,000	16,700	21,500	19,000	17,700	15,600
13	17,700	16,200	15,000	11,500	10,600	10,900	13,100	17,000	21,500	19,000	17,600	15,600
14	17,600	16,300	14,900	11,400	10,600	10,900	13,100	17,200	21,600	18,900	17,600	15,600
15	17,600	16,200	14,900	11,200	10,600	11,000	13,200	17,400	21,600	18,800	17,500	15,500
16	17,600	16,200	14,900	11,100	10,600	11,000	13,200	17,700	21,600	18,800	17,400	15,500
17	17,600	16,200	14,900	11,000	10,600	11,100	13,300	18,000	21,500	18,800	17,400	15,500
18	17,500	16,200	14,800	10,900	10,600	11,200	13,300	18,200	21,500	18,700	17,300	15,400
19	17,400	16,100	14,700	10,800	10,600	11,200	13,400	18,400	21,400	18,700	17,200	15,300
20	17,300	16,100	14,600	10,800	10,600	11,300	13,400	18,700	21,300	18,600	17,100	15,200
21	17,300	16,100	14,600	10,700	10,600	11,300	13,400	18,900	21,200	18,600	17,000	15,100
22	17,200	16,000	14,400	10,700	10,700	11,400	13,500	19,000	21,100	18,600	16,900	15,000
23	17,200	16,000	14,300	10,600	10,700	11,400	13,500	19,100	21,000	18,600	16,900	15,000
24	17,100	16,000	14,200	10,600	10,700	11,400	13,600	19,200	20,900	18,500	16,800	14,900
25	17,000	15,900	14,000	10,600	10,800	11,500	13,700	19,400	20,700	18,500	16,700	14,800
26	17,000	15,900	14,000	10,600	10,800	11,600	13,800	19,600	20,600	18,500	16,600	14,700
27	16,900	15,800	13,900	10,600	10,900	11,700	13,900	19,800	20,500	18,400	16,500	14,600
28	16,800	15,800	13,700	10,600	10,900	11,700	14,100	19,900	20,300	18,400	16,500	14,600
29	16,800	15,700	13,500	10,500	---	11,700	14,400	20,100	20,200	18,400	16,400	14,500
30	16,700	15,600	13,400	10,500	---	11,700	14,600	20,300	20,100	18,300	16,300	14,400
31	16,700	---	13,200	10,500	---	11,800	---	20,400	---	18,300	16,300	---
Max	17,900	16,600	15,600	13,100	10,900	11,800	14,600	20,400	21,600	19,900	18,300	16,200
Min	16,700	15,600	13,200	10,500	10,400	10,800	11,900	14,900	20,100	18,300	16,300	14,400
Gage height, in feet, at end of month	52.44	50.56	45.95	40.37	41.12	43.05	48.67	58.87	58.30	55.31	51.69	48.31
Change in contents, in acre-feet	-1,300	-1,100	-2,400	-2,700	+400	+900	+2,800	+5,800	-300	-1,800	-2,000	-1,900

	Calendar Year 2006	Water Year 2007
Max	22,400	21,600
Min	13,200	10,400
Change in contents, in acre-feet	+200	-3,600

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