



Water-Data Report CA-2005

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, 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.

WATER-STAGE 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 Unpublished records for water years 1981-85 available in files of the U.S. Geological Survey.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.

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.

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.

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, 22,300 acre-ft, several days in July, maximum gage height, 61.93 ft, July 22; minimum, 10,700 acre-ft, many days in February and March, minimum gage height, 40.71 ft, Feb. 18.

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 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14,100	13,700	13,200	11,700	10,800	10,700	11,400	12,800	17,800	22,100	22,200	19,800
2	14,100	13,700	13,200	11,600	10,800	10,700	11,400	12,900	17,700	22,000	22,200	19,800
3	14,000	13,700	13,100	11,500	10,800	10,700	11,400	13,100	17,600	22,000	22,100	19,800
4	14,000	13,700	13,100	11,400	10,800	10,700	11,400	13,200	17,600	21,900	22,000	19,700
5	14,000	13,700	13,100	11,300	10,800	10,700	11,400	13,400	17,600	22,000	21,900	19,700
6	14,000	13,700	13,000	11,200	10,800	10,700	11,500	13,500	17,700	22,200	21,800	19,700
7	14,000	13,700	13,100	11,200	10,800	10,700	11,500	13,600	17,900	22,300	21,700	19,700
8	13,900	13,700	13,100	11,200	10,700	10,700	11,600	13,800	18,200	22,300	21,700	19,600
9	13,900	13,700	13,100	11,200	10,700	10,700	11,600	14,000	18,600	22,200	21,600	19,600
10	13,900	13,700	13,000	11,200	10,700	10,700	11,600	14,000	18,900	22,200	21,500	19,500
11	13,800	13,700	13,000	11,100	10,700	10,800	11,700	14,100	19,300	22,200	21,400	19,500
12	13,800	13,700	13,000	11,100	10,700	10,800	11,700	14,200	19,700	22,200	21,400	19,400
13	13,700	13,700	13,000	11,100	10,700	10,900	11,700	14,400	20,200	22,300	21,300	19,400
14	13,700	13,600	12,900	11,100	10,700	10,900	11,800	14,700	20,800	22,300	21,200	19,400
15	13,700	13,600	12,900	11,000	10,700	10,900	11,800	15,200	21,200	22,300	21,100	19,300
16	13,600	13,600	12,800	11,000	10,700	10,900	11,800	15,900	21,500	22,200	21,000	19,200
17	13,700	13,600	12,800	10,900	10,700	10,900	11,900	15,900	21,600	22,200	21,000	19,100
18	13,700	13,600	12,700	10,900	10,700	10,900	12,000	16,400	21,500	22,200	20,900	19,000
19	13,800	13,600	12,600	10,900	10,700	11,000	12,100	16,800	21,500	22,200	20,800	18,900
20	13,800	13,600	12,500	10,900	10,700	11,000	12,100	17,200	21,600	22,300	20,700	18,900
21	13,800	13,500	12,400	10,800	10,800	11,100	12,100	17,400	21,800	22,300	20,600	18,800
22	13,800	13,500	12,300	10,800	10,800	11,200	12,200	17,500	21,900	22,300	20,500	18,700
23	13,800	13,500	12,200	10,800	10,800	11,200	12,200	17,700	21,900	22,300	20,400	18,600
24	13,800	13,400	12,100	10,800	10,700	11,200	12,300	17,800	21,900	22,300	20,300	18,500
25	13,800	13,400	12,000	10,800	10,700	11,200	12,300	17,900	21,700	22,200	20,200	18,400
26	13,800	13,400	11,900	10,800	10,700	11,200	12,400	18,100	21,600	22,200	20,100	18,300
27	13,800	13,400	11,900	10,800	10,700	11,200	12,500	18,300	21,500	22,200	20,000	18,200
28	13,800	13,300	11,800	10,900	10,700	11,300	12,600	18,400	21,600	22,200	19,900	18,200
29	13,800	13,300	11,700	10,800	---	11,300	12,700	18,200	21,800	22,200	19,900	18,100
30	13,800	13,300	11,700	10,800	---	11,300	12,700	18,000	22,000	22,300	19,900	18,000
31	13,800	---	11,800	10,800	---	11,400	---	17,900	---	22,300	19,800	---
Max	14,100	13,700	13,200	11,700	10,800	11,400	12,700	18,400	22,000	22,300	22,200	19,800
Min	13,600	13,300	11,700	10,800	10,700	10,700	11,400	12,800	17,600	21,900	19,800	18,000
Gage height, in feet, at end of month	47.04	46.06	42.98	41.03	40.83	42.13	45.01	54.54	61.48	61.87	57.92	54.73
Change in contents, in acre-feet	-300	-500	-1,500	-1,000	-100	+700	+1,300	+5,200	+4,100	+300	-2,500	-1,800

	Calendar Year 2004	Water Year 2005
Max	21,800	22,300
Min	9,210	10,700
Change in contents, in acre-feet	+300	+3,900

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