

11429350 Loon Lake near Meeks Bay, CA

Sacramento River Basin

LOCATION.--Lat 38°58'59", long 120°19'22" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.8, T.13 N., R.15 E., El Dorado County, CA, Hydrologic Unit 18020128, in Eldorado National Forest, in powerplant intake structure, 1.6 mi southwest of right bank end of Loon Lake Dam on Gerle Creek, and 10 mi southwest of Meeks Bay.

DRAINAGE AREA.--7.96 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1963 to current year.

CHEMICAL ANALYSES: Water year 1996.

REVISED RECORDS.--WDR CA-76-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Sacramento Municipal Utility District). Prior to Sept. 23, 1975, at site 1.6 mi northeast on right bank end of Loon Lake Dam at same datum.

COOPERATION.--Records were collected by Sacramento Municipal Utility District, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2101.

REMARKS.--Reservoir is formed by an earth-fill dam completed Dec. 27, 1963, storage began Dec. 5, 1963. Prior to September 1962, reservoir was formed by granite-block dam built in 1884, capacity, 8,000 acre-ft. Usable capacity, 67,670 acre-ft, between elevations 6,325 ft, invert of fishwater release valve, and 6,410 ft, crest of spillway. Dead storage, 1,640 acre-ft. Lake receives water from Rubicon River via Rubicon-Rockbound Tunnel to Buck Island Lake and from Buck Island Lake to Loon Lake via Buck-Loon Tunnel (stations 11427940 and 11428300). Records, including extremes, represent total contents. See schematic diagram of Middle Fork American and Rubicon River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 77,700 acre-ft, June 6, 1969, elevation, 6,411.1 ft; minimum since reservoir first filled, 3,262 acre-ft, Nov. 8, 9, 1988, elevation, 6,328.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 66,900 acre-ft, June 5, 6, 9, 10, maximum elevation, 6,408.31 ft, June 9; minimum, 28,300 acre-ft, Jan. 16-18, 23, 24, minimum elevation, 6,374.63 ft, Jan. 23.

Capacity table (elevation, in feet, and contents, in acre-feet)
 (Table provided by Sacramento Municipal Utility District, based on June 2000 survey)

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
6,330	2,430	6,350	9,855	6,370	24,160	6,412	72,160
6,340	5,121	6,360	16,250	6,390	44,030		

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	40,600	39,100	47,100	38,000	29,500	30,900	39,400	53,700	66,300	64,700	57,100	45,700
2	40,400	39,100	50,100	37,100	29,600	31,000	39,500	54,300	66,400	64,300	56,700	45,600
3	40,200	39,200	51,700	36,200	29,700	31,300	39,700	54,900	66,600	64,300	56,400	45,200
4	40,000	39,200	52,200	35,400	29,800	31,400	40,100	55,500	66,800	64,100	56,200	44,900
5	39,900	39,200	54,000	34,500	29,900	31,500	40,900	56,200	66,900	64,100	55,800	44,500
6	39,700	39,200	55,500	34,500	29,900	31,800	41,300	56,900	66,900	64,100	55,400	44,100
7	39,500	39,200	55,900	33,700	30,000	31,900	41,800	57,700	66,800	64,000	55,000	43,700
8	39,400	39,200	55,300	32,800	30,100	32,000	42,200	58,200	66,800	63,700	54,400	43,500
9	39,400	39,300	54,600	32,000	30,100	32,100	42,300	58,800	66,900	63,200	54,000	43,100
10	39,300	39,300	53,800	31,200	30,200	32,200	42,300	59,200	66,900	62,800	53,600	42,800
11	39,300	39,300	53,100	30,300	30,200	32,300	42,600	59,700	66,800	62,800	53,500	42,600
12	39,300	39,200	52,300	29,500	30,300	32,400	43,100	60,300	66,500	62,700	53,100	42,300
13	39,200	39,200	51,400	29,500	30,300	32,600	43,700	61,000	66,300	62,400	52,500	42,100
14	39,100	39,200	50,400	29,100	30,300	32,900	44,400	61,600	66,100	62,300	52,100	41,800
15	39,100	39,100	49,500	28,700	30,400	33,300	45,000	62,200	65,800	62,300	51,500	41,800
16	39,100	39,200	49,600	28,300	30,400	33,700	45,400	62,600	65,400	62,200	51,100	41,400
17	39,100	39,700	49,000	28,300	30,500	34,100	45,600	63,000	65,400	62,200	50,800	41,000
18	39,000	40,500	48,200	28,300	30,500	34,300	45,800	63,300	65,400	61,900	50,400	40,500
19	39,000	40,800	47,200	28,400	30,600	34,700	45,900	63,500	65,400	61,600	50,000	40,200
20	39,000	41,100	46,400	28,400	30,700	35,300	46,100	63,300	65,300	61,300	49,500	39,900
21	38,900	41,400	45,500	28,500	30,700	35,700	46,500	63,200	65,300	61,200	49,200	39,900
22	39,100	42,000	44,800	28,500	30,700	36,100	47,100	63,400	65,200	60,900	48,900	39,900
23	39,200	42,300	45,100	28,300	30,800	36,300	47,800	63,500	65,200	59,900	48,500	39,800
24	39,200	42,500	44,200	28,300	30,800	36,500	48,500	63,800	65,300	59,100	48,300	39,800
25	39,200	42,600	43,400	28,500	30,800	36,700	49,000	64,000	65,400	58,800	48,200	39,800
26	39,100	42,600	42,600	28,700	30,900	37,000	49,600	64,300	65,700	58,500	47,700	39,700
27	39,100	42,400	41,700	29,000	30,900	37,300	50,300	64,600	65,600	58,200	47,400	39,600
28	39,100	42,300	40,700	29,200	30,900	37,600	51,100	65,300	65,500	58,100	46,900	39,600
29	39,100	42,500	39,800	29,300	---	38,000	51,900	65,800	65,300	57,900	46,600	39,500
30	39,100	45,000	39,800	29,400	---	38,500	52,900	66,100	64,900	57,600	46,000	39,500
31	39,000	---	38,800	29,500	---	39,100	---	66,200	---	57,200	45,700	---
Max	40,600	45,000	55,900	38,000	30,900	39,100	52,900	66,200	66,900	64,700	57,100	45,700
Min	38,900	39,100	38,800	28,300	29,500	30,900	39,400	53,700	64,900	57,200	45,700	39,500
Elevation, in feet, at end of month	6,385.43	6,390.82	6,385.23	6,375.88	6,377.40	6,385.46	6,397.50	6,407.80	6,406.85	6,401.01	6,391.47	6,385.88
Change in contents, in acre-feet	-1,800	+6,000	-6,200	-9,300	+1,400	+8,200	+13,800	+13,300	-1,300	-7,700	-11,500	-6,200

	Calendar Year 2012	Water Year 2013
Max	67,800	66,900
Min	38,800	28,300
Change in contents, in acre-feet	-5,700	-1,300

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