

**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 mi<sup>2</sup>.

**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 (revised), 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, 66,600 acre-ft, June 25, 26, maximum elevation, 6,408.06 ft, June 25; minimum, 27,400 acre-ft, Mar. 12, elevation, 6,373.68 ft.

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

| <b>Elevation</b> | <b>Contents</b> | <b>Elevation</b> | <b>Contents</b> | <b>Elevation</b> | <b>Contents</b> | <b>Elevation</b> | <b>Contents</b> |
|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 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          |                  |                 |

## 11429350 Loon Lake near Meeks Bay, CA—Continued

**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY OBSERVATION AT 2400 HOURS**

| Day  | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | Jun      | Jul      | Aug      | Sep      |
|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1  | 42,900   | 42,300   | 41,300   | 41,300   | 40,200   | 29,300   | 28,800   | 43,300   | 65,200   | 66,200   | 55,400   | 47,700   |
| 2  | 42,900   | 42,000   | 41,300   | 41,200   | 39,900   | 29,100   | 28,900   | 43,900   | 65,700   | 66,200   | 54,600   | 47,600   |
| 3  | 42,900   | 41,800   | 41,200   | 41,200   | 39,600   | 28,900   | 29,100   | 44,600   | 66,200   | 66,200   | 54,100   | 47,400   |
| 4  | 42,800   | 41,800   | 41,200   | 41,700   | 39,100   | 28,700   | 29,400   | 45,400   | 66,300   | 66,200   | 53,500   | 47,100   |
| 5  | 42,800   | 41,800   | 41,200   | 42,000   | 38,700   | 28,500   | 29,600   | 46,100   | 66,100   | 66,200   | 53,200   | 46,900   |
| 6  | 42,800   | 41,700   | 41,300   | 42,100   | 38,200   | 28,400   | 29,900   | 47,200   | 65,900   | 66,200   | 52,700   | 46,700   |
| 7  | 42,700   | 41,700   | 41,300   | 42,200   | 37,700   | 28,200   | 30,200   | 48,400   | 65,600   | 66,100   | 52,400   | 46,500   |
| 8  | 42,700   | 41,700   | 41,300   | 42,400   | 37,200   | 28,000   | 30,400   | 49,600   | 65,400   | 65,800   | 52,100   | 46,300   |
| 9  | 42,700   | 41,600   | 41,300   | 42,400   | 36,700   | 27,800   | 30,600   | 50,700   | 65,400   | 65,800   | 51,800   | 46,000   |
| 10   | 42,700   | 41,500   | 41,300   | 42,500   | 36,200   | 27,600   | 30,800   | 51,700   | 65,600   | 65,500   | 51,400   | 45,800   |
| 11   | 42,700   | 41,500   | 41,200   | 42,500   | 35,600   | 27,500   | 31,100   | 52,700   | 65,700   | 65,500   | 50,800   | 45,600   |
| 12   | 42,700   | 41,500   | 41,200   | 42,500   | 35,100   | 27,400   | 31,500   | 53,900   | 65,800   | 65,400   | 50,400   | 45,300   |
| 13   | 42,600   | 41,500   | 41,100   | 42,500   | 34,700   | 27,600   | 32,100   | 54,800   | 65,900   | 65,400   | 49,800   | 45,100   |
| 14   | 42,600   | 41,600   | 41,100   | 42,600   | 34,200   | 27,800   | 32,900   | 55,700   | 65,900   | 65,300   | 49,500   | 44,900   |
| 15   | 42,600   | 41,700   | 41,000   | 42,600   | 33,900   | 27,900   | 33,600   | 57,300   | 66,000   | 65,200   | 49,200   | 44,700   |
| 16   | 42,600   | 41,700   | 41,000   | 42,600   | 33,500   | 27,900   | 34,000   | 59,100   | 66,100   | 64,600   | 49,100   | 44,500   |
| 17   | 42,600   | 41,700   | 41,000   | 42,600   | 33,100   | 27,900   | 34,500   | 60,100   | 66,000   | 64,000   | 49,100   | 44,200   |
| 18   | 42,600   | 41,700   | 41,100   | 42,600   | 32,700   | 27,800   | 35,200   | 60,900   | 66,000   | 63,400   | 49,000   | 44,000   |
| 19   | 42,600   | 41,700   | 41,100   | 42,600   | 32,400   | 27,800   | 35,900   | 61,500   | 66,000   | 62,800   | 49,000   | 43,800   |
| 20   | 42,600   | 41,700   | 41,300   | 42,600   | 31,900   | 27,800   | 36,500   | 61,900   | 66,100   | 62,200   | 48,900   | 43,600   |
| 21   | 42,500   | 41,600   | 41,300   | 42,600   | 31,500   | 27,800   | 36,900   | 62,000   | 66,100   | 61,500   | 48,800   | 43,400   |
| 22   | 42,600   | 41,600   | 41,300   | 42,600   | 31,100   | 27,800   | 37,200   | 61,900   | 66,100   | 61,100   | 48,600   | 43,200   |
| 23   | 42,600   | 41,600   | 41,200   | 42,400   | 30,700   | 27,800   | 37,600   | 61,600   | 66,300   | 60,500   | 48,500   | 42,900   |
| 24   | 42,600   | 41,500   | 41,300   | 42,100   | 30,400   | 27,900   | 37,800   | 62,100   | 66,500   | 59,900   | 48,400   | 42,700   |
| 25   | 42,800   | 41,500   | 41,200   | 41,900   | 30,100   | 28,000   | 38,100   | 62,500   | 66,600   | 59,300   | 48,400   | 42,500   |
| 26   | 42,900   | 41,500   | 41,200   | 41,600   | 29,900   | 28,200   | 38,500   | 62,900   | 66,600   | 58,900   | 48,300   | 42,200   |
| 27   | 42,900   | 41,400   | 41,200   | 41,500   | 29,800   | 28,300   | 39,300   | 63,300   | 66,500   | 58,600   | 48,200   | 42,000   |
| 28   | 42,900   | 41,400   | 41,200   | 41,400   | 29,600   | 28,400   | 40,400   | 63,700   | 66,400   | 58,100   | 48,100   | 41,700   |
| 29   | 42,900   | 41,400   | 41,300   | 41,200   | 29,500   | 28,600   | 41,600   | 64,100   | 66,300   | 57,600   | 48,000   | 41,400   |
| 30   | 42,800   | 41,300   | 41,300   | 41,000   | ---      | 28,700   | 42,600   | 64,500   | 66,200   | 56,700   | 47,900   | 41,300   |
| 31   | 42,600   | ---      | 41,300   | 40,700   | ---      | 28,700   | ---      | 64,800   | ---      | 56,100   | 47,800   | ---      |
| <b>Max</b>                                 | 42,900   | 42,300   | 41,300   | 42,600   | 40,200   | 29,300   | 42,600   | 64,800   | 66,600   | 66,200   | 55,400   | 47,700   |
| <b>Min</b>                                 | 42,500   | 41,300   | 41,000   | 40,700   | 29,500   | 27,400   | 28,800   | 43,300   | 65,200   | 56,100   | 47,800   | 41,300   |
| <b>Elevation, in feet, at end of month</b> | 6,388.69 | 6,387.57 | 6,387.50 | 6,386.98 | 6,375.88 | 6,375.03 | 6,388.71 | 6,406.74 | 6,407.78 | 6,400.11 | 6,393.26 | 6,387.58 |
| <b>Change in contents, in acre-feet</b>    | -400     | -1,300   | 0        | -600     | -11,200  | -800     | +13,900  | +22,200  | +1,400   | -10,100  | -8,300   | -6,500   |

|   | Calendar Year 2007 | Water Year 2008 |
|---|--------------------|-----------------|
| <b>Max</b>                              | 68,300             | 66,600          |
| <b>Min</b>                              | 41,000             | 27,400          |
| <b>Change in contents, in acre-feet</b> | -8,800             | -1,700          |

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