

11417950 Harry L. Englebright Lake near Smartsville, CA

Sacramento River Basin

LOCATION.--Lat 39°14'23", long 121°16'07" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.14, T.16 N., R.6 E., Yuba County, CA, Hydrologic Unit 18020125, in intake tower on right bank of reservoir, 0.9 mi upstream from Deer Creek and 2.7 mi northeast of Smartsville.

DRAINAGE AREA.--1,108 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2001 to September 2006, and October 2007 to September 2008. Records of daily storage, 1973-2001, available in files of the U.S. Geological Survey.

REVISED RECORDS.--WDR CA-03-4: 2002, Monthend and annual maximum and minimum elevations.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (Army Corps of Engineers).

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. 1403.

REMARKS.--Reservoir is formed by a concrete arch dam, 1,142 ft long and 260 ft tall, completed in 1941 by the Army Corps of Engineers, water storage began the same year. Gross pool is 70,000 acre-ft, usable storage, 45,000 acre-ft between elevation of spill lip, 527 ft and elevation of intake to Narrows Powerplant No. 1 (station 11417970), 450 ft. Reservoir receives inflow from North, Middle and South Forks of Yuba River which are regulated releases except during spill conditions. Dam has no low-level outlet except water that is released through Narrows Powerplant Nos. 1 and 2 (station 11417980). Site is used by Pacific Gas and Electric Company to compute mid-night storage contents for Reservoir. Records, excluding extremes, represent contents at 2400 hours. Since records for 2007 water year were not published, change of contents for the 2007 calendar year and the 2008 water year could not be determined. See schematic diagram of South Yuba River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 56,000 acre-ft, Dec. 31, 2005, elevation, 539.96 ft; minimum, 34,200 acre-ft, Jan. 5, 2004, elevation, 513.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,500 acre-ft, Feb. 25, Sept. 30, elevation, 526.36 ft, Feb. 25; minimum, 36,200 acre-ft, May 15-17, elevation, 515.56 ft.

**Capacity table (gage height, in feet, and contents, in acre-feet)
(Based on table provided by Pacific Gas and Electric Company, dated 1942)**

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
450	0	479	13,000	507	29,900	536	52,400
464	5,800	493	20,800	522	41,000	544	59,700

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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	40,300	39,400	38,900	39,000	39,700	40,200	38,300	39,100	38,000	39,400	40,600	38,400
2	40,100	39,800	38,500	38,700	40,300	40,800	38,800	39,300	37,700	39,100	39,600	38,500
3	40,000	39,600	38,100	38,300	41,900	41,300	38,900	39,600	37,400	39,000	39,500	38,700
4	40,000	39,300	37,600	41,400	41,100	41,400	39,100	39,900	37,800	39,100	39,500	38,800
5	40,000	39,400	37,500	43,000	39,900	41,500	38,900	40,300	38,300	39,200	39,700	38,900
6	40,000	39,300	37,800	42,300	38,600	41,700	39,000	40,000	38,700	39,500	39,800	38,800
7	40,000	39,200	38,900	41,000	38,500	40,900	39,000	39,300	38,600	40,000	40,000	38,700
8	40,300	39,300	39,400	38,800	39,000	40,800	39,000	37,900	38,300	39,700	40,200	38,600
9	40,100	39,300	40,000	39,100	39,200	40,900	38,800	37,600	38,200	39,300	39,300	38,400
10	40,000	39,100	40,600	40,000	39,400	40,800	38,900	37,600	38,100	39,000	39,100	38,300
11	40,000	39,000	40,900	40,800	39,800	40,800	38,900	37,600	38,200	39,400	39,300	38,400
12	39,700	39,100	40,900	40,300	39,500	40,700	38,800	37,700	38,300	39,600	39,600	38,000
13	39,400	39,000	40,900	40,500	39,700	40,900	38,800	37,500	39,100	39,900	39,900	37,700
14	39,300	38,800	40,600	40,200	40,100	41,300	38,900	36,900	39,400	40,000	40,000	37,600
15	38,900	38,500	40,300	40,100	40,300	41,400	39,200	36,600	39,500	40,100	40,200	37,800
16	38,600	38,300	40,300	39,900	40,300	41,500	38,500	36,800	39,600	40,300	39,700	38,500
17	38,900	37,900	40,300	40,000	40,500	41,700	38,100	37,200	39,400	40,200	39,700	38,600
18	39,300	37,900	41,100	40,200	40,500	41,600	38,000	38,000	39,200	39,900	39,400	39,100
19	39,800	37,800	41,800	40,200	40,700	41,400	37,800	39,200	39,200	39,500	39,300	39,600
20	40,100	37,600	42,000	40,400	41,100	41,100	37,700	39,500	39,100	39,600	39,600	39,800
21	40,500	37,600	40,700	40,200	41,400	40,800	37,700	39,000	39,100	39,800	39,200	39,800
22	40,600	37,700	39,200	40,100	42,400	39,800	37,300	38,800	39,100	40,200	39,100	39,800
23	40,600	37,600	39,400	40,100	42,500	39,200	36,900	39,400	39,100	40,500	38,900	40,400
24	40,300	37,700	39,600	40,100	44,400	39,000	37,300	39,700	39,300	40,900	38,600	41,400
25	40,100	37,500	39,800	40,100	42,300	38,700	38,200	39,700	39,200	41,200	38,300	42,300
26	40,200	37,700	40,200	40,500	38,600	38,500	38,700	40,300	38,900	41,600	38,000	43,400
27	39,900	37,800	40,500	41,300	37,800	38,400	39,400	40,400	39,200	41,200	37,900	44,000
28	39,900	37,900	40,800	43,600	38,600	38,500	40,200	40,200	39,500	41,300	37,900	44,300
29	39,600	38,100	40,000	42,000	39,400	38,300	40,100	39,600	39,500	41,000	37,900	44,400
30	39,400	38,800	39,600	40,000	---	38,200	39,500	39,200	39,500	40,700	37,600	44,300
31	39,300	---	39,100	38,600	---	38,300	---	38,300	---	40,600	37,900	---
Mean	39,845	38,533	39,848	40,348	40,259	40,335	38,623	38,781	38,817	40,026	39,203	39,843
Max	40,600	39,800	42,000	43,600	44,400	41,700	40,200	40,400	39,600	41,600	40,600	44,400
Min	38,600	37,500	37,500	38,300	37,800	38,200	36,900	36,600	37,400	39,000	37,600	37,600
Elevation, in feet, at end of month	519.74	519.12	519.45	518.84	519.88	518.34	520.04	518.42	520.05	521.41	517.83	526.16
Change in contents, in acre-feet	---	-500	-1,300	-500	-1,000	-1,100	+1,200	-1,200	+1,200	+1,100	-2,700	-16,400

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