

11243400 Bass Lake near Bass Lake, CA

San Joaquin River Basin

LOCATION.--Lat 37°17'36", long 119°31'40" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.26, T.7 S., R.22 E., Madera County, CA, Hydrologic Unit 18040006, in Sierra National Forest, at outlet tower about 500 ft northeast of center of rock-fill dam on North Fork Willow Creek, 2.2 mi southeast of town of Bass Lake, and 5 mi north of town of North Fork.

DRAINAGE AREA.--50.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1911 to September 1982 (monthend contents only), October 1982 to current year. Bass Lake was formerly called Crane Valley Reservoir.

GAGE.--Water-stage recorder. Elevation is 3,376.40 ft above NGVD of 1929 (levels by Pacific Gas and Electric Co.).

COOPERATION.--Records were provided by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 1354. Contents not rounded to U.S. Geological Survey standards.

REMARKS.--Reservoir formed by earth-fill and rock-fill dam; completed in 1901 and raised in 1910. Since 1910, usable contents, 45,100 acre-ft, between elevations 3,280.22 ft, invert of outlet conduit No. 3, and 3,376.40 ft, top of spillway gates. Additional storage of 300 acre-ft not available for release. Water is released through Crane Valley Powerplant below dam for use in three small powerplants before being discharged into Kerckhoff Reservoir (station 11246650) at Wishon Powerplant. Water is diverted from South Fork Willow Creek via Browns Creek Ditch into Bass Lake near left end of dam. Madera Irrigation District has water rights to divert up to 50 ft³/s from North Fork Willow Creek through Soquel Ditch into Nelder Creek (Fresno River Basin) from October through July each year. Records, excluding extremes, represent total contents at 2400 hours. See schematic diagram of lower San Joaquin River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 45,960 acre-ft, June 17, 1923, elevation, 3,376.8 ft; minimum, 35 acre-ft, Nov. 19, 1953, elevation, 3,270.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 35,560 acre-ft, June 9, elevation, 3,367.55 ft, June 8; minimum, 17,800 acre-ft, Nov. 27, elevation, 3,347.36 ft, Nov. 27.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Pacific Gas and Electric Company, dated March 1937)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
3,280	290	3,320	5,584	3,360	28,121
3,290	890	3,330	8,717	3,370	38,218
3,300	1,896	3,340	13,227	3,376.4	45,410
3,310	3,404	3,350	19,663		

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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	31,900	23,600	18,800	23,500	25,600	27,200	30,600	34,300	35,500	35,300	34,500	33,700
2	31,900	23,400	19,800	23,500	25,700	27,300	30,700	34,300	35,500	35,300	34,500	33,700
3	31,800	23,100	20,100	23,500	25,800	27,300	30,900	34,400	35,500	35,200	34,500	33,700
4	31,500	22,800	20,200	23,600	25,900	27,400	31,000	34,500	35,500	35,200	34,400	33,700
5	31,200	22,500	20,300	23,600	26,000	27,400	31,200	34,600	35,500	35,200	34,400	33,700
6	31,000	22,200	20,400	23,700	26,100	27,600	31,300	34,600	35,500	35,200	34,400	33,600
7	30,700	21,900	20,500	23,700	26,200	27,700	31,400	34,700	35,500	35,100	34,400	33,600
8	30,400	21,600	20,500	23,800	26,300	27,800	31,600	34,900	35,500	35,100	34,300	33,600
9	30,100	21,300	20,600	23,900	26,300	27,900	31,700	34,900	35,600	35,100	34,300	33,600
10	29,900	21,000	20,600	23,900	26,400	28,000	31,800	35,000	35,500	35,100	34,300	33,500
11	29,600	20,700	20,700	23,900	26,400	28,100	32,000	35,100	35,500	35,100	34,300	33,500
12	29,300	20,400	20,800	24,000	26,500	28,200	32,100	35,100	35,500	35,000	34,200	33,500
13	29,000	20,100	20,800	24,000	26,500	28,300	32,200	35,200	35,500	35,000	34,200	33,500
14	28,800	19,900	20,900	24,000	26,500	28,400	32,300	35,200	35,500	35,000	34,200	33,400
15	28,500	19,600	20,900	24,100	26,600	28,500	32,500	35,300	35,500	35,000	34,200	33,400
16	28,200	19,300	20,900	24,100	26,600	28,600	32,600	35,300	35,500	34,900	34,100	33,400
17	27,900	19,200	21,100	24,200	26,700	28,700	32,700	35,300	35,400	34,900	34,100	33,400
18	27,600	19,100	21,400	24,200	26,700	28,900	32,800	35,300	35,400	34,900	34,100	33,300
19	27,300	19,200	21,500	24,200	26,800	29,000	32,900	35,400	35,400	34,900	34,000	33,300
20	27,000	19,000	21,600	24,300	26,800	29,100	33,000	35,400	35,400	34,800	34,000	33,300
21	26,700	18,800	21,600	24,300	26,900	29,200	33,200	35,400	35,400	34,800	34,000	33,300
22	26,500	18,500	21,900	24,400	26,900	29,300	33,300	35,400	35,400	34,800	34,000	33,300
23	26,300	18,200	22,300	24,400	27,000	29,400	33,400	35,400	35,400	34,800	33,900	33,300
24	26,000	17,900	22,700	24,600	27,000	29,600	33,500	35,400	35,300	34,700	33,900	33,300
25	25,700	17,800	22,900	24,800	27,000	29,700	33,600	35,400	35,400	34,700	33,900	33,100
26	25,400	17,800	23,000	25,000	27,100	29,800	33,700	35,500	35,300	34,700	33,900	32,900
27	25,100	17,800	23,100	25,200	27,100	29,900	33,900	35,500	35,300	34,700	33,800	32,600
28	24,800	17,900	23,200	25,300	27,200	30,000	34,000	35,500	35,300	34,600	33,800	32,300
29	24,500	17,900	23,300	25,400	---	30,100	34,100	35,500	35,300	34,600	33,800	32,100
30	24,200	18,600	23,300	25,500	---	30,200	34,200	35,500	35,300	34,600	33,800	31,800
31	23,900	---	23,400	25,500	---	30,400	---	35,500	---	34,600	33,800	---
Max	31,900	23,600	23,400	25,500	27,200	30,400	34,200	35,500	35,600	35,300	34,500	33,700
Min	23,900	17,800	18,800	23,500	25,600	27,200	30,600	34,300	35,300	34,600	33,800	31,800
Elevation, in feet, at end of month	3,355.32	3,348.55	3,354.67	3,357.17	3,358.96	3,362.47	3,366.22	3,367.52	3,367.30	3,366.60	3,365.81	3,363.90
Change in contents, in acre-feet	-8,100	-5,300	+4,800	+2,100	+1,700	+3,200	+3,800	+1,300	-200	-700	-800	-2,000

	Calendar Year 2012	Water Year 2013
Change in contents, in acre-feet	+6,200	-200

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