



Water-Data Report CA-2005

## 11315600 LOWER BEAR RIVER RESERVOIR NEAR NICHOLL, CA

San Joaquin River Basin

LOCATION.--Lat 38°32'20", long 120°15'22" referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.18, T.8 N., R.16 E., Amador County, Hydrologic Unit 18040012, in Eldorado National Forest, 100 ft left of the spillway, 7.4 mi east of Hams Station, and 14.6 mi southwest of Kirkwood.

DRAINAGE AREA.--37.3 mi<sup>2</sup>.

### WATER-STAGE RECORDS

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,820 ft above NGVD of 1929, from topographic map.

REMARKS.--Reservoir is formed by two rockfill concrete-faced dams, completed in 1952. Capacity, 52,000 acre-ft, at elevation 5,820 ft. Figures given, including extremes, represent total contents. See schematic diagram of Mokelumne River Basin.

COOPERATION.--Records were 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. 2130.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 52,100 acre-ft, June 6, 7, 2002, June 17, 18, 2003, May 28, 2004, maximum elevation, 5,820.12 ft, June 6, 7, 2002, May 28, 2004; minimum, 3,460 acre-ft, Jan. 7, 2003, elevation, 5,713.07 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 51,800 acre-ft, July 2, elevation, 5,819.71 ft; minimum, 6,020 acre-ft, Apr. 14, elevation, 5,729.17 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)  
(Table provided by Pacific Gas and Electric Company, dated October 1997)

Elevation	Contents	Elevation	Contents	Elevation	Contents
5,600	0	5,680	1,007	5,760	16,112
5,620	24	5,700	2,152	5,780	26,140
5,640	104	5,720	4,390	5,800	38,105
5,660	354	5,740	8,647	5,824	55,036

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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	26,300	26,100	23,900	18,100	15,200	12,900	6,720	12,400	49,600	51,700	41,700	31,200
2	26,100	26,100	23,800	18,000	15,100	12,700	6,540	13,100	50,400	51,800	41,200	30,900
3	25,800	26,100	23,700	17,800	15,000	12,400	6,500	14,200	51,100	51,700	40,800	30,800
4	25,800	26,100	23,700	17,700	14,900	12,200	6,500	15,100	51,300	51,600	40,300	30,500
5	25,900	26,100	23,700	17,600	14,800	11,900	6,500	16,500	51,300	51,500	39,900	30,400
6	25,900	26,000	23,700	17,400	14,700	11,700	6,500	17,500	51,200	51,500	39,400	30,100
7	25,900	26,000	23,900	17,300	14,600	11,400	6,510	18,000	51,100	51,400	38,400	29,800
8	25,900	26,000	24,000	17,300	14,500	11,200	6,350	19,000	51,200	51,200	37,900	29,400
9	25,800	26,000	23,900	17,300	14,400	11,000	6,180	21,100	51,600	50,900	37,300	29,100
10	25,800	25,900	23,800	17,200	14,300	10,900	6,090	21,600	51,200	50,600	36,800	28,800
11	25,800	25,900	23,600	17,200	14,300	10,800	6,090	22,000	51,200	50,300	36,400	28,400
12	25,800	25,800	23,300	17,000	14,300	10,600	6,090	22,600	51,200	49,900	36,100	28,100
13	25,700	25,800	23,100	16,900	14,300	10,500	6,090	23,900	51,300	49,700	35,800	27,900
14	25,700	25,700	22,900	16,800	14,300	10,400	6,020	25,700	51,400	49,400	35,400	27,800
15	25,700	25,600	22,600	16,700	14,400	10,200	6,180	27,400	51,200	48,900	35,100	27,700
16	25,700	25,500	22,200	16,500	14,500	10,000	6,510	30,800	50,900	48,500	34,800	27,400
17	25,800	25,400	21,900	16,400	14,500	9,870	6,970	31,900	50,800	48,200	34,500	26,900
18	25,800	25,300	21,500	16,300	14,600	9,640	7,480	33,800	50,300	47,800	34,200	26,500
19	25,900	25,200	21,200	16,200	14,600	9,520	7,740	35,600	50,100	47,200	34,000	26,100
20	26,000	25,100	20,900	16,100	14,600	9,420	7,750	37,400	50,600	46,800	33,800	25,700
21	26,000	25,100	20,500	16,000	14,700	9,240	7,820	38,000	51,200	46,500	33,600	25,200
22	26,000	25,000	20,200	15,900	14,700	9,070	8,050	38,700	51,200	46,100	33,400	24,800
23	26,000	24,900	19,900	15,800	14,400	8,440	8,350	39,500	51,100	45,700	33,200	24,300
24	26,000	24,700	19,600	15,700	14,100	8,210	8,610	40,600	51,000	45,300	33,100	23,800
25	26,000	24,600	19,300	15,700	13,900	7,990	8,960	41,900	51,000	44,800	32,800	23,400
26	26,100	24,400	19,000	15,800	13,600	7,760	9,510	43,300	51,100	44,400	32,600	22,800
27	26,100	24,500	18,700	15,700	13,400	7,540	10,000	44,700	51,100	44,000	32,400	22,400
28	26,100	24,400	18,400	15,600	13,200	7,410	10,500	46,100	51,400	43,600	32,200	21,900
29	26,100	24,300	18,300	15,500	---	7,410	10,900	46,800	51,600	43,100	31,900	21,500
30	26,100	24,100	18,200	15,400	---	6,990	11,400	47,300	51,700	42,700	31,700	21,100
31	26,100	---	18,200	15,300	---	6,770	---	48,100	---	42,200	31,400	---
<b>Max</b>	26,300	26,100	24,000	18,100	15,200	12,900	11,400	48,100	51,700	51,800	41,700	31,200
<b>Min</b>	25,700	24,100	18,200	15,300	13,200	6,770	6,020	12,400	49,600	42,200	31,400	21,100
<b>Elevation, in feet, at end of month</b>	5,779.90	5,776.26	5,764.61	5,758.25	5,753.32	5,732.60	5,748.64	5,814.60	5,819.52	5,806.20	5,789.27	5,770.47
<b>Change in contents, in acre-feet</b>	-500	-2,000	-5,900	-2,900	-2,100	-6,430	+4,630	+36,700	+3,600	-9,500	-10,800	-10,300

	Calendar Year 2004	Water Year 2005
<b>Max</b>	52,100	51,800
<b>Min</b>	5,020	6,020
<b>Change in contents, in acre-feet</b>	+12,230	-5,500

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