



Water-Data Report CA-2005

11441100 ICE HOUSE RESERVOIR NEAR KYBURZ, CA

Sacramento River Basin

LOCATION.--Lat 38°49'51", long 120°21'35" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.1, T.11 N., R.14 E., El Dorado County, Hydrologic Unit 18020129, in Eldorado National Forest, in powerplant intake structure near right bank, 0.5 mi north of Ice House Dam on South Fork Silver Creek, and 5.2 mi northwest of Kyburz.

DRAINAGE AREA.--27.2 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--October 1959 to current year.

CHEMICAL ANALYSES: Water year 1996.

REVISED RECORDS.--WSP 1931: 1960.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Sacramento Municipal Utility District). Prior to July 15, 1985, at site 0.5 mi downstream at Ice House Dam at same datum.

REMARKS.--Reservoir is formed by an earthfill dam; storage began Dec. 15, 1959. Usable capacity, 45,839 acre-ft, between elevations 5,327.5 ft, centerline of fishwater outlet, and 5,450.0 ft, top of spillway gates. Dead storage, 160 acre-ft. Reservoir is used to store water for power development. Reservoir is also forebay for Jones Fork Powerplant (station 11440900), which diverts up to 350 ft³/s to powerplant completed in April 1985, then to Union Valley Reservoir (station 11441001). Records, including extremes, represent total contents. See schematic diagram of South Fork American River Basin.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 46,400 acre-ft, June 27, 1971, elevation, 5,450.6 ft; minimum since reservoir first filled, 1,450 acre-ft, Dec. 8, 1983, elevation, 5,347.9 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,700 acre-ft, June 3, elevation, 5,448.83 ft; minimum, 15,300 acre-ft, Feb. 16-20, minimum elevation, 5,398.38 ft, Feb. 17, 18.

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
5,345	849	5,360	3,145	5,400	15,956	5,440	37,061
5,350	1,451	5,380	8,400	5,420	25,587	5,451	44,074

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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	25,300	24,900	24,600	24,700	18,500	15,500	18,500	20,200	42,200	41,800	39,900	36,800
2	25,300	24,700	24,600	24,800	18,400	15,600	18,400	20,400	42,600	41,800	39,900	36,800
3	25,300	24,400	24,600	24,800	18,100	15,600	18,600	20,700	42,700	41,900	39,800	36,700
4	25,300	24,200	24,600	24,500	17,900	15,600	18,500	21,000	42,500	42,000	39,800	36,700
5	25,100	24,200	24,600	24,300	17,600	15,600	18,300	21,600	42,400	41,900	39,600	36,700
6	25,100	24,200	24,600	24,100	17,300	15,600	18,300	22,000	42,100	41,700	39,600	36,600
7	25,100	24,200	24,600	23,900	17,000	15,500	18,300	22,200	41,800	42,000	39,600	36,600
8	25,000	24,200	24,600	23,700	16,700	15,500	18,300	22,600	41,900	42,100	39,600	36,500
9	25,000	24,200	24,700	23,700	16,400	15,600	18,200	23,200	42,400	42,300	39,500	36,500
10	25,000	24,300	24,700	23,500	16,200	15,700	18,100	23,400	42,100	42,500	39,500	36,500
11	24,900	24,300	24,700	23,200	16,000	15,900	18,100	23,500	41,800	42,600	39,500	36,400
12	24,900	24,400	24,800	22,900	15,800	16,100	17,900	23,700	41,400	42,500	39,400	36,300
13	24,900	24,400	24,800	22,600	15,800	16,300	17,900	24,000	41,300	42,300	39,400	36,100
14	24,900	24,400	24,800	22,400	15,600	16,500	17,900	24,500	41,400	42,200	39,400	36,100
15	24,800	24,400	24,900	22,100	15,400	16,700	17,800	25,100	41,500	42,100	39,400	36,000
16	24,800	24,400	24,900	22,100	15,300	16,800	17,900	27,100	41,400	41,900	39,300	36,000
17	24,900	24,400	24,900	21,800	15,300	16,900	18,000	28,000	41,300	41,800	39,200	35,900
18	24,800	24,400	24,900	21,500	15,300	17,000	18,100	28,900	41,000	41,800	39,200	35,900
19	24,900	24,500	24,800	21,200	15,300	17,200	18,200	30,500	40,700	41,700	39,200	35,800
20	25,000	24,500	24,600	20,900	15,300	17,400	18,200	32,100	40,600	41,600	39,100	35,800
21	25,000	24,500	24,600	20,600	15,400	17,500	18,200	33,200	40,600	41,600	39,100	35,700
22	24,900	24,500	24,600	20,400	15,400	17,600	18,300	34,300	40,700	41,600	38,800	35,700
23	24,900	24,500	24,600	20,400	15,400	17,800	18,700	35,600	40,800	41,500	38,500	35,700
24	24,900	24,500	24,600	20,100	15,400	17,800	18,900	36,400	40,900	41,300	38,300	35,600
25	24,900	24,500	24,600	19,800	15,400	17,900	19,200	37,300	41,200	41,100	38,100	35,600
26	25,000	24,500	24,600	19,600	15,400	18,000	19,300	38,300	41,500	40,800	37,800	35,500
27	24,900	24,600	24,500	19,300	15,500	18,100	19,600	39,200	41,700	40,800	37,600	35,500
28	24,900	24,600	24,600	19,100	15,500	18,300	19,700	40,000	41,800	40,800	37,300	35,400
29	24,900	24,600	24,600	18,900	---	18,400	19,800	40,500	41,800	40,600	36,900	35,200
30	24,900	24,600	24,700	18,900	---	18,500	20,000	40,900	41,800	40,400	36,900	34,900
31	24,900	---	24,700	18,800	---	18,600	---	41,400	---	40,200	36,900	---
Max	25,300	24,900	24,900	24,800	18,500	18,600	20,000	41,400	42,700	42,600	39,900	36,800
Min	24,800	24,200	24,500	18,800	15,300	15,500	17,800	20,200	40,600	40,200	36,900	34,900
Elevation, in feet, at end of month	5,418.76	5,418.09	5,418.29	5,406.31	5,398.94	5,405.87	5,408.85	5,446.94	5,447.58	5,445.00	5,439.69	5,436.53
Change in contents, in acre-feet	-500	-300	+100	-5,900	-3,300	+3,100	+1,400	+21,400	+400	-1,600	-3,300	-2,000

	Calendar Year 2004	Water Year 2005
Max	42,800	42,700
Min	23,100	15,300
Change in contents, in acre-feet	-3,300	+9,500

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