



1999 California Hydrologic Data Report

11428700 HELL HOLE RESERVOIR NEAR MEEKS BAY, CA

LOCATION.-Lat 39°03'54", long 120°24'50", in SE 1/4 NW 1/4 sec.16, T.14 N., R.14 E., Placer County, Hydrologic Unit 18020128, Eldorado National Forest, on right bank, 0.3 mi upstream from Hell Hole Dam, on Rubicon River, and 15.6 mi west of Meeks Bay.

DRAINAGE AREA.-114 mi².

PERIOD OF RECORD.-December 1965 to current year.

GAGE.-Water-stage recorder. Datum of gage is sea level (levels by Placer County Water Agency).

REMARKS.-Reservoir is formed by rockfill dam with earth core. Storage began Dec. 6, 1965. Usable capacity, 207,342 acre-ft between elevations 4,287.65 ft, invert of river outlet, and 4,630.0 ft, crest of ogee spillway. Dead storage 248 acre-ft. Reservoir is used to store water for hydroelectric power. Water is diverted into reservoir from French Meadows Reservoir (11427400) on the Middle Fork American River through French Meadows Powerplant (station 11427200). Water is diverted out of reservoir to the Middle Fork American River through Middle Fork Powerplant. See schematic diagram of Middle Fork American and Rubicon River Basins.

COOPERATION.-Records provided by Placer County Water Agency, under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.-Maximum contents, 217,400 acre-ft, Jan. 2, 1997, elevation, 4,637.7 ft; minimum since reservoir first filled, 37,499 acre-ft, Mar. 23, 1973, elevation, 4,428.28 ft.

EXTREMES FOR CURRENT YEAR.-Maximum contents, 204,600 acre-ft, June 18, elevation, 4,627.6 ft; minimum, 98,200 acre-ft, Apr. 12, elevation, 4,520.0 ft.

(Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on survey by Placer County Water Agency in 1966)

4,340	5,220	4,400	24,200	4,550	122,700
4,360	9,840	4,450	49,600	4,600	171,900
4,380	16,200	4,500	83,000	4,650	233,400

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143100	155600	144200	114400	108700	101800	99900	118700	188800	200400	178100	149300
2	143500	155400	143800	113200	108300	101800	99700	120200	191500	199900	177200	148200
3	144100	155100	144200	112200	107800	102900	99700	121200	193000	198900	176400	146700
4	144600	155100	144000	111200	107500	103300	99700	122000	193900	198400	175800	145600
5	145000	155000	143800	110100	107100	103300	99500	122700	195100	197800	175300	144700
6	145400	154900	143500	109100	106500	103400	99500	124300	196800	196800	174500	143800
7	145800	154800	143100	108000	106100	103600	99400	126300	198400	196000	173700	142700

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8	146200	154500	142600	107000	109200	103300	99300	128000	199400	195100	172900	141500
9	146700	154200	142100	106100	111300	102900	99100	129700	200500	194300	172100	140700
10	147100	153900	141500	105500	111800	102600	98900	131000	201400	193600	171200	139600
11	147700	153700	141000	104600	111400	102200	98500	132900	202400	192600	170200	138300
12	148200	153400	140000	103800	111000	101700	98200	135300	202700	191600	169300	137700
13	148800	153200	139200	103100	110500	101300	98400	137400	203100	191000	168500	136500
14	149200	152700	138000	102500	110000	101000	98700	138900	203700	190400	168000	135400
15	149600	152100	136800	101900	109300	100600	99100	139900	204000	189700	167200	134400
16	150200	151600	135700	101700	108600	100200	99600	141100	204200	189000	166300	133300
17	150500	150900	134700	101900	109400	100000	100600	142900	204500	188400	165400	132300
18	151000	150100	133400	103900	109200	99900	102000	144800	204600	188100	164300	131400
19	151600	149300	132300	105400	108600	99900	103400	146900	204300	187400	163300	131300
20	152100	148400	130700	108000	108000	99800	105000	149000	204100	186900	162200	131600
21	152600	147600	129100	108900	107600	99900	106900	151200	204000	186100	161300	132000
22	153000	146900	127400	109100	106700	99600	107500	154000	204100	185500	160200	132400
23	153500	147000	125700	110300	105800	99500	109200	157200	204100	184900	159200	133000
24	154300	146600	124100	110700	104700	99200	110300	160900	204100	184300	158200	133200
25	154800	145900	122900	110900	104000	99000	111800	164400	203700	183800	157100	133700
26	155400	145100	121900	111000	102700	99200	113900	169000	203200	183000	156000	134100
27	155500	144300	120800	110800	102000	99700	115500	173000	202600	182500	155000	134500
28	156300	143500	119600	110400	101600	100200	116300	176900	202000	181600	153800	134900
29	156500	143200	118300	110000	---	100400	116700	180100	201400	180700	152800	135300
30	156400	144400	116700	109500	---	100200	117500	183000	200800	179700	151700	135600
31	155900	---	115200	109100	---	100000	---	186100	---	178900	150500	---
MAX	156500	155600	144200	114400	111800	103600	117500	186100	204600	200400	178100	149300
MIN	143100	143200	115200	101700	101600	99000	98200	118700	188800	178900	150500	131300
a	4585.3	4573.9	4541.1	4533.7	4524.3	4522.3	4543.8	4612.3	4624.5	4606.2	4580.0	4564.6
b	+13200	-11500	-29200	-6100	-7500	-1600	+17500	+68600	+14700	-21900	-28400	-14900
CAL YR	1998	b	+60700									
WY YR	1999	b	-7100									

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