



Water-Data Report 2008

11234700 Mammoth Pool Reservoir near Big Creek, CA

San Joaquin River Basin

LOCATION.--Lat 37°19'40", long 119°19'38" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.10, T.7 S., R.24 E., Madera County, CA, Hydrologic Unit 18040006, in Sierra National Forest, in gatehouse of power tunnel intake, 0.7 mi northwest of dam on San Joaquin River, and 9.0 mi northwest of town of Big Creek.

DRAINAGE AREA.--995 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Southern California Edison Co.).

COOPERATION.--Records were collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2085. Records not rounded to U.S. Geological Survey standards.

REMARKS.--Reservoir is formed by an earth-fill dam; storage began Oct. 8, 1959. Usable capacity, 119,940 acre-ft, between elevations 3,100.00 ft, invert of power tunnel, and 3,330.00 ft, crest of spillway. Additional storage of 2,780 acre-ft is not available for release. Water is diverted from Mammoth Pool through tunnel for power development and returned to river 8.5 mi downstream from dam. Records, excluding extremes, represent usable 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, 128,944 acre-ft, Jan. 2, 1997, elevation, 3,338.00 ft; minimum contents since appreciable storage was attained, 1,134 acre-ft, Sept. 25, 1992, elevation, 3,112.82 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 122,875 acre-ft, May 18, elevation, 3,332.64 ft; minimum, 12,369 acre-ft, Sept. 25, elevation, 3,174.30 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Southern California Edison Co., dated Nov. 6, 1959)**

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
3,100	0	3,130	3,114	3,180	14,060	3,260	56,381
3,105	417	3,140	4,605	3,190	17,414	3,280	72,109
3,110	861	3,150	6,402	3,200	21,400	3,300	89,781
3,115	1,355	3,160	8,618	3,220	31,109	3,320	109,336
3,120	1,900	3,170	11,165	3,240	42,787	3,340	131,255

11234700 Mammoth Pool Reservoir near Big Creek, CA—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	14,499	19,338	22,589	23,670	40,102	30,169	38,119	121,103	120,926	119,438	73,415	17,663
2	14,643	19,501	22,589	23,463	40,435	29,731	39,230	121,114	120,671	119,001	70,760	18,311
3	14,804	19,648	22,549	23,144	40,901	28,992	40,309	121,136	121,103	118,556	68,074	18,246
4	14,934	19,793	22,469	25,527	41,238	28,186	41,728	121,136	121,125	118,437	65,374	17,863
5	15,067	19,938	22,518	27,639	41,547	27,447	43,359	121,225	120,959	118,091	62,728	17,478
6	15,218	20,071	22,518	28,492	41,900	e26,674	45,111	121,469	121,025	117,596	60,092	17,185
7	15,356	20,214	22,758	29,010	42,225	25,854	46,901	121,625	121,103	117,029	57,394	16,917
8	15,526	20,341	22,883	29,544	42,586	25,112	48,540	121,492	121,047	116,421	54,728	16,657
9	15,682	20,501	22,990	30,047	42,974	24,488	49,811	121,492	121,081	116,069	52,181	16,426
10	15,827	20,638	23,057	30,408	43,595	24,048	51,053	121,558	121,159	115,411	49,577	16,171
11	15,968	20,826	23,106	31,077	44,144	24,005	52,921	121,737	120,959	114,532	46,934	15,934
12	16,110	21,090	23,003	31,586	44,614	24,221	55,493	121,581	120,892	113,475	44,177	15,652
13	16,283	21,307	22,816	32,047	43,876	24,746	58,968	121,270	120,859	112,559	41,312	15,383
14	16,468	21,526	22,892	32,516	42,765	25,512	63,233	121,625	120,848	111,856	38,448	15,113
15	16,643	21,746	22,963	32,930	41,632	25,443	67,431	122,461	120,815	111,426	35,732	14,833
16	16,811	21,942	23,053	33,325	40,573	24,961	70,451	122,640	121,292	110,498	32,896	14,554
17	16,970	22,126	23,003	33,676	39,209	24,255	73,567	122,618	121,281	108,379	30,148	14,268
18	17,116	22,297	23,030	34,013	37,945	23,527	77,384	122,663	121,225	106,085	27,853	14,001
19	17,294	22,465	23,178	34,314	36,739	23,059	80,938	122,506	121,159	103,630	26,383	13,719
20	17,459	22,576	23,350	34,633	35,566	23,120	83,806	122,249	121,125	101,235	24,518	13,473
21	17,618	22,785	23,491	34,953	34,482	22,862	86,114	121,725	121,103	98,812	23,468	13,231
22	17,765	22,932	23,550	35,222	33,790	22,678	e88,235	121,336	121,125	96,307	22,709	12,969
23	17,913	23,066	23,630	35,495	32,780	22,686	e90,199	120,992	121,092	94,945	22,008	12,700
24	18,004	23,147	23,799	35,824	33,448	24,562	92,110	120,881	121,025	94,082	21,294	12,418
25	18,107	23,246	23,953	36,011	33,090	26,498	94,319	121,058	121,014	91,828	20,555	12,461
26	18,362	22,483	24,099	36,175	32,477	28,474	97,582	120,914	120,981	89,150	19,958	12,602
27	18,501	22,385	24,171	37,178	31,689	30,544	102,405	120,815	120,926	86,530	19,541	12,734
28	18,641	22,429	24,235	38,101	30,970	32,345	108,369	120,837	120,626	83,815	19,100	12,861
29	18,801	22,531	24,102	38,641	30,398	33,991	114,405	120,715	119,995	81,169	18,466	12,984
30	18,982	22,589	23,869	39,190	---	35,698	119,318	120,659	119,743	78,568	17,844	13,098
31	19,168	---	23,885	39,743	---	36,973	---	120,803	---	76,028	17,142	---
Max	19,168	23,246	24,235	39,743	44,614	36,973	119,318	122,663	121,292	119,438	73,415	18,311
Min	14,499	19,338	22,469	23,144	30,398	22,678	38,119	120,659	119,743	76,028	17,142	12,418
Elevation, in feet, at end of month	3,194.55	3,202.72	3,205.60	3,235.08	3,218.67	3,230.47	3,329.43	3,330.78	3,329.82	3,284.62	3,189.25	3,176.82
Change in contents, in acre-feet	+4,831	+3,421	+1,296	+15,858	-9,345	+6,575	+82,345	+1,485	-1,060	-43,715	-58,886	-4,044

	Calendar Year 2007	Water Year 2008
Change in contents, in acre-feet	-2,255	-1,239

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