



Water-Data Report 2007

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. 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, 101,981 acre-ft, May 21, elevation, 3,312.73 ft; minimum, 10,033 acre-ft, Aug. 29, elevation, 3,165.70 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 2006 TO SEPTEMBER 2007
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	69,843	30,292	21,729	26,378	32,946	47,526	78,090	91,303	92,251	64,160	33,924	10,791
2	68,261	29,842	21,863	26,623	33,140	47,605	78,039	92,035	93,042	62,984	33,057	11,049
3	66,920	29,468	22,082	26,904	33,305	47,665	77,952	92,063	93,902	61,794	30,868	11,179
4	65,542	29,165	22,200	27,481	33,512	47,937	78,637	91,518	93,921	60,516	29,295	11,381
5	64,463	28,650	22,372	27,945	33,740	47,837	79,335	90,741	93,023	58,976	28,484	11,525
6	63,468	27,802	22,452	28,248	34,075	48,526	81,383	90,154	92,457	57,319	27,212	11,642
7	62,071	27,409	22,438	28,572	34,393	49,025	82,888	89,345	92,063	55,754	26,759	11,751
8	60,925	26,949	22,518	28,852	34,566	49,474	84,294	88,900	91,415	54,527	26,234	11,902
9	59,457	26,739	22,638	29,138	34,885	49,721	85,891	89,484	90,070	53,437	25,541	12,046
10	58,011	25,981	22,878	29,217	35,945	49,770	88,393	90,741	88,762	53,069	24,704	12,146
11	56,279	25,748	22,878	29,510	38,101	50,120	89,373	94,527	87,739	52,160	24,034	12,232
12	55,363	25,440	23,120	29,689	39,148	50,487	89,540	98,200	86,831	51,056	23,242	12,312
13	54,262	25,003	23,328	29,721	39,895	51,300	89,231	99,369	85,645	50,037	22,139	12,283
14	52,900	24,956	23,323	29,847	40,456	51,258	88,752	100,196	84,177	48,910	21,281	12,140
15	51,600	24,835	23,436	30,031	41,028	51,404	89,235	100,849	82,806	47,705	20,132	12,266
16	50,597	24,467	23,418	30,222	41,622	e52,582	88,488	100,869	81,294	46,438	19,517	12,412
17	49,845	24,166	23,500	30,419	42,078	e53,959	87,973	101,285	80,151	45,098	19,005	12,458
18	48,829	23,839	23,436	30,653	42,825	e55,356	87,736	101,772	78,585	44,048	18,138	12,441
19	47,824	23,654	23,120	30,868	43,531	e56,777	86,655	101,553	78,254	43,060	17,538	12,429
20	46,738	23,436	23,106	31,055	43,952	e58,221	85,327	101,623	77,769	42,097	16,959	12,527
21	45,311	23,233	23,187	31,255	44,492	e59,683	84,350	101,762	77,186	41,629	16,086	12,656
22	43,857	23,084	23,581	31,445	45,130	61,176	83,602	101,344	75,943	41,108	15,139	12,852
23	42,034	22,932	23,853	31,646	45,053	62,844	82,730	100,512	74,338	40,273	14,088	13,057
24	41,436	22,762	24,125	31,640	45,331	64,734	83,022	99,153	73,803	39,166	13,321	13,261
25	39,889	22,584	24,239	31,478	45,851	67,074	83,310	97,621	72,488	38,137	12,441	13,458
26	38,155	22,204	24,344	31,727	46,379	69,686	83,833	96,183	70,935	37,617	11,961	13,646
27	36,834	22,030	24,933	32,000	47,052	72,151	84,611	94,755	69,521	37,059	11,261	13,850
28	34,981	21,925	25,260	32,296	47,579	73,999	86,064	93,693	68,025	36,501	10,269	14,026
29	33,723	22,021	25,541	32,510	---	75,617	87,950	93,362	66,540	36,077	10,048	14,173
30	32,510	21,938	25,859	32,731	---	76,955	89,735	92,881	65,398	35,583	10,230	14,337
31	31,467	---	26,140	32,941	---	77,720	---	91,668	---	34,762	10,451	---
Max	69,843	30,292	26,140	32,941	47,579	77,720	89,735	101,772	93,921	64,160	33,924	14,337
Min	31,467	21,925	21,729	26,378	32,946	47,526	77,952	88,900	65,398	34,762	10,048	10,791
Elevation, in feet, at end of month	3,220.66	3,201.24	3,210.39	3,223.35	3,247.41	3,286.59	3,299.95	3,302.02	3,271.80	3,226.62	3,167.32	3,180.88
Change in contents, in acre-feet	-39,335	-9,529	+4,202	+6,801	+14,638	+30,141	+12,015	+1,933	-26,270	-30,636	-24,311	+3,886

	Calendar Year 2006	Water Year 2007
Change in contents, in acre-feet	-38,874	-56,465

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