

11277200 Cherry Lake near Hetch Hetchy, CA

San Joaquin River Basin

LOCATION.--Lat 37°58'33", long 119°54'47" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.5, T.1 N., R.19 E., Tuolumne County, CA, Hydrologic Unit 18040009, Stanislaus National Forest, on upstream face of Cherry Valley Dam on Cherry Creek, 4.2 mi upstream from Eleanor Creek, 7 mi north of Early Intake, and 7.3 mi northwest of Hetch Hetchy.

DRAINAGE AREA.--117 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1956 to current year. Prior to October 1959, published as "Lake Lloyd near Hetch Hetchy."

GAGE.--Water-stage recorder. Datum of gage is 2.42 ft above NGVD of 1929. Prior to October 1974, datum published as at mean sea level.

REMARKS.--Reservoir is formed by a rock-fill dam completed in 1956. Storage began in December 1955. Capacity, 274,300 acre-ft, between gage heights 4,430 ft, bottom of sluice gates, and 4,703 ft, top of flashboard gates on concrete spillway. No dead storage. Installation of flashboard gates on top of concrete spillway completed in 1979. Water is released down Cherry Creek for power development and domestic supply as part of Hetch Hetchy system of city and county of San Francisco. Unmeasured diversion from Lake Eleanor (station 11277500) into Cherry Lake began Mar. 6, 1960. Diversion from Cherry Lake through tunnel to Dion R. Holm Powerplant near mouth of Cherry Creek began Aug. 1, 1960. Records, excluding extremes, represent contents at 2400 hours. See schematic diagram of Tuolumne River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 274,500 acre-ft, May 28, 2004, gage height, 4,703.13 ft; minimum since reservoir first filled, 7,660 acre-ft, Jan. 24, 1960, gage height, 4,502.1 ft. Reservoir drained for inspection in 1961, 1964, and 1989.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 261,400 acre-ft, June 11, 12, gage height, 4,695.77 ft, June 11, 12; minimum, 127,500 acre-ft, Dec. 2-6, gage height, 4,611.26 ft., Dec. 4.

**Capacity table (gage height, in feet, and contents, in acre-feet)
(Based on table provided by San Francisco Public Utilities Commission, dated May 15, 1971)**

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
4,440	0	4,490	3,020	4,560	60,800	4,660	201,100
4,450	75	4,500	6,030	4,580	85,100	4,680	234,100
4,460	250	4,510	11,700	4,600	111,800	4,700	268,800
4,470	675	4,520	19,700	4,620	139,900	4,705	277,900
4,480	1,530	4,540	38,900	4,640	169,700		

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	141,300	127,800	127,600	150,000	150,300	153,100	167,500	180,200	246,200	255,000	244,500	231,200
2	140,300	127,800	127,600	150,600	150,600	153,500	167,600	181,800	248,300	254,800	244,000	230,900
3	139,400	127,800	127,500	150,900	150,900	153,800	167,700	183,500	250,400	254,500	244,000	230,600
4	138,300	127,800	127,600	152,500	150,900	153,900	168,100	185,200	252,400	254,300	243,400	230,200
5	137,400	127,700	127,500	153,000	150,700	153,900	168,600	186,800	254,300	254,000	242,800	229,900
6	136,500	127,800	127,700	152,900	150,500	154,000	169,400	189,200	256,000	254,000	242,200	229,800
7	135,400	127,800	128,000	152,500	150,200	154,200	169,500	191,800	257,700	253,700	241,600	229,700
8	134,500	127,700	128,100	152,000	150,000	154,500	169,700	194,300	258,800	253,500	241,000	229,400
9	133,500	127,700	128,100	151,300	149,800	155,100	169,400	196,400	259,800	253,200	240,500	229,200
10	132,700	127,700	128,300	150,600	149,700	155,500	169,400	198,700	261,100	252,800	240,100	228,800
11	131,600	127,800	129,000	149,900	149,500	156,000	169,800	201,500	261,300	252,400	239,500	228,500
12	130,800	127,900	130,100	149,400	149,500	156,500	170,000	203,900	261,300	252,100	239,000	228,200
13	130,200	127,900	130,700	149,100	149,400	157,800	170,500	205,800	261,200	251,500	238,400	228,100
14	129,300	127,900	131,900	149,100	149,300	158,600	171,200	208,100	261,000	251,100	237,800	228,000
15	128,300	127,900	133,000	148,900	149,200	159,300	171,700	212,000	260,900	251,000	237,500	227,800
16	128,300	127,900	134,100	148,400	149,000	160,000	172,300	216,500	260,700	250,900	237,300	227,500
17	128,300	127,900	135,100	148,300	149,100	160,000	172,700	220,900	260,300	250,700	237,200	227,200
18	128,200	127,900	136,400	147,800	149,100	160,300	173,100	225,300	260,400	250,400	236,900	226,900
19	128,100	127,900	137,400	147,400	149,100	160,900	173,500	228,800	259,800	250,100	236,600	226,600
20	128,100	127,800	138,700	147,000	149,400	161,500	173,400	231,800	259,200	250,100	236,300	226,500
21	128,100	127,800	139,900	146,500	149,400	162,000	172,900	234,300	258,600	249,700	236,000	226,400
22	128,100	127,800	141,000	146,400	150,000	162,700	172,600	235,700	258,600	249,400	235,700	226,200
23	128,100	127,700	142,100	146,800	150,600	163,700	172,400	236,500	258,700	248,900	235,300	225,900
24	128,000	127,700	143,200	147,100	150,900	164,400	172,000	237,800	257,900	248,500	234,800	225,600
25	128,000	127,700	144,000	147,600	150,900	165,100	171,600	239,100	257,000	247,900	234,400	225,300
26	128,000	127,700	145,100	148,200	150,800	165,600	171,900	240,000	256,100	247,500	233,900	225,100
27	128,000	127,700	146,000	149,100	151,400	166,100	173,100	240,900	255,800	247,000	233,500	225,100
28	128,000	127,700	146,900	149,500	151,900	166,400	174,800	241,600	255,500	246,500	233,000	225,000
29	127,800	127,600	147,900	149,700	152,700	167,000	176,700	242,200	255,800	246,100	232,500	224,700
30	127,900	127,600	148,700	149,900	---	167,500	178,800	242,800	255,400	245,600	232,000	224,300
31	127,900	---	149,400	150,100	---	167,500	---	244,000	---	245,100	231,600	---
Max	141,300	127,900	149,400	153,000	152,700	167,500	178,800	244,000	261,300	255,000	244,500	231,200
Min	127,800	127,600	127,500	146,400	149,000	153,100	167,500	180,200	246,200	245,100	231,600	224,300
Gage height, in feet, at end of month	4,611.54	4,611.36	4,626.49	4,626.93	4,628.71	4,638.54	4,645.85	4,685.76	4,692.40	4,686.40	4,678.51	4,674.17
Change in contents, in acre-feet	-14,400	-300	+21,800	+700	+2,600	+14,800	+11,300	+65,200	+11,400	-10,300	-13,500	-7,300

	Calendar Year 2007	Water Year 2008
Change in contents, in acre-feet	-98,500	+82,000

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