

11042510 Vail Lake near Temecula, CA

Santa Margarita River Basin

LOCATION.--Lat 33°29'44", long 116°58'33" referenced to North American Datum of 1927, Riverside County, CA, Hydrologic Unit 18070302, in Pauba Grant, near center of Vail Dam on Temecula Creek, 0.2 mi downstream from Arroyo Seco, and 10 mi east of Temecula.

DRAINAGE AREA.--320 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1960 to September 1985 (monthend contents only), October 1987 to current year. Prior to October 1977, published with Temecula Creek at Vail Dam.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by the U.S. Bureau of Reclamation). June 4, 1969, to September 1985, nonrecording gage.

REMARKS.--Reservoir is formed by concrete arch-type dam, completed in June 1949. Total capacity, 49,370 acre-ft, between elevations 1,352.5 ft, bottom of lowest outlet, and 1,470 ft, crest of spillway, all of which is available for release. There had been no spill from Nov. 13, 1948, date of closure, to Feb. 20, 1980, when a peak spill of about 8,000 ft³/s occurred (from theoretical discharge curve). Water is released down Temecula Creek for diversion about 1 mi downstream. Figures given, excluding extremes, represent total contents at 2400 hours. See schematic diagram of Santa Margarita River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 52,670 acre-ft, spilling, Feb. 21, 1980, elevation, 1,473.0 ft, from high-water mark; minimum observed, 1,038 acre-ft, Oct. 31, 1960, elevation, 1,379.44 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 29,390 acre-ft, Oct. 1, elevation, 1,448.74 ft; minimum observed, 26,540 acre-ft, Sept. 30, elevation, 1,445.12 ft.

**Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table dated Dec. 22, 1953)**

Elevation	Contents	Elevation	Contents	Elevation	Contents
1,390	2,400	1,420	11,400	1,450	30,420
1,400	4,530	1,430	16,390	1,460	39,280
1,410	7,560	1,440	22,780	1,475	54,940

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	29,360	28,870	28,800	28,730	28,730	28,870	29,200	29,350	28,840	28,240	27,620	27,180
2	29,350	28,850	28,790	28,730	28,740	28,870	29,200	29,340	28,820	28,220	27,600	27,150
3	29,340	28,840	28,790	28,730	28,740	28,850	29,200	29,330	28,800	28,210	27,580	27,120
4	29,320	28,890	28,780	28,730	28,730	28,860	29,200	29,330	28,780	28,190	27,560	27,100
5	29,310	28,880	28,770	28,730	28,730	28,870	29,190	29,320	28,770	28,170	27,550	27,080
6	29,300	28,880	28,750	28,730	28,730	28,860	29,200	29,310	28,750	28,150	27,530	27,050
7	29,280	28,870	28,750	28,730	28,730	28,880	29,190	29,300	28,730	28,120	27,520	27,040
8	29,260	28,860	28,740	28,720	28,730	28,870	29,180	29,280	28,710	28,110	27,500	27,020
9	29,240	28,850	28,740	28,720	28,730	28,870	29,180	29,260	28,690	28,080	27,480	26,990
10	29,220	28,830	28,730	28,720	28,740	28,870	29,180	29,250	28,680	28,070	27,470	26,980
11	29,210	28,820	28,730	28,710	28,740	28,870	29,180	29,230	28,660	28,040	27,490	26,960
12	29,190	28,850	28,760	28,720	28,740	28,870	29,180	29,220	28,650	28,030	27,480	26,950
13	29,180	28,850	28,760	28,710	28,750	28,870	29,220	29,210	28,620	28,020	27,460	26,920
14	29,160	28,840	28,750	28,700	28,750	28,870	29,260	29,190	28,600	28,000	27,450	26,890
15	29,140	28,840	28,760	28,700	28,770	28,870	29,270	29,170	28,580	27,980	27,430	26,880
16	29,130	28,850	28,760	28,720	28,770	28,870	29,290	29,150	28,570	27,960	27,430	26,840
17	29,110	28,830	28,760	28,710	28,770	28,940	29,310	29,130	28,540	27,930	27,420	26,820
18	29,100	28,830	28,760	28,710	28,780	29,000	29,310	29,120	28,530	27,920	27,390	26,790
19	29,080	28,820	28,760	28,720	28,780	29,010	29,310	29,100	28,510	27,890	27,380	26,780
20	29,060	28,850	28,760	28,710	28,780	29,020	29,310	29,080	28,490	27,880	27,360	26,750
21	29,050	28,850	28,760	28,730	28,790	29,040	29,320	29,050	28,460	27,850	27,350	26,730
22	29,030	28,840	28,750	28,730	28,790	29,050	29,320	29,040	28,450	27,840	27,320	26,720
23	29,020	28,840	28,750	28,730	28,790	29,050	29,320	29,010	28,420	27,810	27,310	26,690
24	29,010	28,830	28,740	28,740	28,790	29,060	29,320	28,990	28,410	27,790	27,290	26,670
25	28,990	28,830	28,750	28,740	28,800	29,100	29,320	28,970	28,380	27,770	27,280	26,660
26	28,980	28,820	28,740	28,740	28,790	29,130	29,350	28,950	28,360	27,740	27,260	26,620
27	28,960	28,810	28,740	28,740	28,850	29,150	29,360	28,930	28,330	27,720	27,240	26,610
28	28,930	28,810	28,740	28,740	28,850	29,160	29,360	28,910	28,310	27,700	27,230	26,590
29	28,930	28,810	28,730	28,730	28,860	29,170	29,350	28,890	28,280	27,670	27,220	26,570
30	28,900	28,810	28,730	28,730	---	29,180	29,350	28,870	28,260	27,650	27,200	26,560
31	28,890	---	28,730	28,740	---	29,190	---	28,850	---	27,640	27,190	---
Max	29,360	28,890	28,800	28,740	28,860	29,190	29,360	29,350	28,840	28,240	27,620	27,180
Min	28,890	28,810	28,730	28,700	28,730	28,850	29,180	28,850	28,260	27,640	27,190	26,560
Elevation, in feet, at end of month	1448.12	1448.02	1447.93	1447.94	1448.09	1448.50	1448.70	1448.08	1447.34	1446.54	1445.97	1445.14
Change in contents, in acre-feet	-500	-80	-80	10	120	330	160	-500	-590	-620	-450	-630

	Calendar Year 2011	Water Year 2012
Max	32,230	29,390
Min	27,230	26,540

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