



Water-Data Report 2011

11173500 Calaveras Creek near Sunol, CA

Alameda Creek Basin

LOCATION.--Lat 37°29'52", long 121°49'00" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.13, T.5 S., R.1 E., Alameda County, CA, Hydrologic Unit 18050004, 1,000 ft downstream from Calaveras Dam, and 7.3 mi southeast of Sunol.

DRAINAGE AREA.--98.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1898 to September 1908, June 1910 to June 1930 (records furnished by Spring Valley Water Company). May 2002 to current year. Monthly flows for water years 1898-1930 published in WSP 1315-B. Water years 1920-24, daily and monthly discharges published in WSP 591. Water years 1925-29, daily flows published in WSP 611, 631, 651, 671, 721. Station reestablished May 23, 2002, by U.S. Geological Survey.

GAGE.--Water-stage recorder, concrete control and bank-operated cableway. Elevation of gage is 550 ft above NGVD of 1929, from topographic map. Prior to 1913 at site 400 ft upstream at different datum. 1913-30 at site 500 ft upstream at different datum.

REMARKS.--Records good except for discharges above 500 ft³/s which are fair, and discharges below 1 ft³/s which are poor. Flow regulated by Calaveras Reservoir beginning in 1916, usable capacity, 96,800 acre-ft. Dam completed in 1925. Dead storage, 3,200 acre-ft. Flow is diverted out of basin from Calaveras Reservoir by city and county of San Francisco for domestic use. See schematic diagram of Alameda Creek Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum mean daily discharge prior to start of regulation: 6,980 ft³/s, Nov. 21, 1900. Maximum instantaneous discharge since start of continuous record on May 23, 2002; 1,070 ft³/s, Apr. 25, 2006, gage height, 8.96 ft. No flow many days most years since construction of Calaveras Dam was begun in 1916. No instantaneous maximum or minimum flow data are available prior to May 2002.

Water-Data Report 2011

11173500 Calaveras Creek near Sunol, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.03	0.02	0.06	0.10	22	4.1	757	158	0.12	0.03	0.04	0.05
2	0.03	0.02	0.08	0.10	21	4.0	738	157	0.08	0.04	0.04	0.05
3	0.03	0.02	0.06	0.11	21	2.4	700	157	0.11	0.03	0.04	0.05
4	0.03	0.02	0.06	0.11	12	0.06	631	140	0.13	0.04	0.04	0.05
5	0.03	0.02	0.09	0.13	15	0.06	600	128	0.11	0.03	0.04	0.05
6	0.03	0.02	0.08	0.10	21	0.12	594	109	0.14	0.03	0.03	0.05
7	0.02	0.03	0.06	0.10	21	0.11	388	99	0.17	0.03	0.02	0.05
8	0.02	0.03	0.10	0.12	21	0.10	218	99	0.16	0.04	0.02	0.05
9	0.02	0.03	0.10	0.15	21	0.10	219	99	0.10	0.04	0.02	0.05
10	0.02	0.04	0.06	0.12	20	0.09	218	85	0.07	0.04	0.02	0.05
11	0.02	0.03	0.05	16	19	0.09	218	72	0.07	0.04	0.02	0.05
12	0.02	0.03	0.05	27	18	0.10	219	63	0.07	0.04	0.02	0.05
13	0.02	0.02	0.06	22	19	0.09	219	51	0.07	0.05	0.02	0.05
14	0.01	0.02	0.06	22	15	0.08	218	51	0.06	0.05	0.02	0.05
15	0.01	0.02	0.10	22	14	0.08	218	51	0.05	0.04	0.02	0.05
16	0.01	0.02	0.06	22	16	0.10	217	41	0.05	0.05	0.02	0.05
17	0.02	0.02	0.09	22	15	0.10	217	34	0.05	0.03	0.02	0.05
18	0.02	0.02	0.10	22	14	0.18	181	25	0.07	0.02	0.30	0.05
19	0.02	0.02	0.21	22	15	0.12	160	20	0.07	0.02	0.38	0.05
20	0.02	0.10	0.05	22	15	0.50	160	15	0.04	0.03	0.05	0.05
21	0.02	0.08	0.05	22	14	0.18	160	13	0.03	0.02	0.05	0.05
22	0.02	0.05	0.10	22	13	0.10	160	13	0.03	0.05	0.22	0.05
23	0.02	0.08	0.10	22	11	16	159	7.5	0.03	0.04	0.05	0.05
24	0.05	0.09	0.10	22	9.0	26	159	4.1	0.03	0.04	0.05	0.05
25	0.03	0.10	0.10	22	8.6	309	159	1.7	0.04	0.04	0.04	0.05
26	0.03	0.10	0.10	22	7.8	819	159	0.05	0.03	0.04	0.04	0.05
27	0.02	0.12	0.10	22	7.8	826	158	0.09	0.02	0.03	0.04	0.05
28	0.02	0.10	0.20	22	6.0	822	158	0.10	0.04	0.04	0.03	0.05
29	0.02	0.10	0.50	22	---	810	158	0.11	0.07	0.03	0.03	0.05
30	0.03	0.06	0.05	22	---	786	158	0.09	0.04	0.04	0.05	0.05
31	0.02	---	0.05	22	---	759	---	0.09	---	0.04	0.05	---
Total	0.71	1.43	3.03	462.14	432.2	5,185.86	8,678	1,693.83	2.15	1.13	1.83	1.50
Mean	0.02	0.05	0.10	14.9	15.4	167	289	54.6	0.07	0.04	0.06	0.05
Max	0.05	0.12	0.50	27	22	826	757	158	0.17	0.05	0.38	0.05
Min	0.01	0.02	0.05	0.10	6.0	0.06	158	0.05	0.02	0.02	0.02	0.05
Ac-ft	1.4	2.8	6.0	917	857	10,290	17,210	3,360	4.3	2.2	3.6	3.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1916

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.769	29.11	43.23	252.5	195.4	218.2	64.94	39.31	14.53	6.543	3.951	2.916
Max	8.61	317	167	777	717	799	208	175	34.3	16.0	20.0	17.9
Min	0.000	0.000	0.25	7.73	8.50	14.6	4.75	4.14	2.29	0.000	0.000	0.000

11173500 Calaveras Creek near Sunol, CA—Continued**SUMMARY STATISTICS**

Water Years 1898 - 1916		
Annual mean	72.92	
Highest annual mean	149	1907
Lowest annual mean	13.1	1913
Highest daily mean	6,980	Nov 21, 1900
Lowest daily mean	.00	Jun 29, 1914
Annual seven-day minimum	.00	Jun 29, 1914
Annual runoff (ac-ft)	52,830	
10 percent exceeds	152	
50 percent exceeds	10	
90 percent exceeds	1.0	

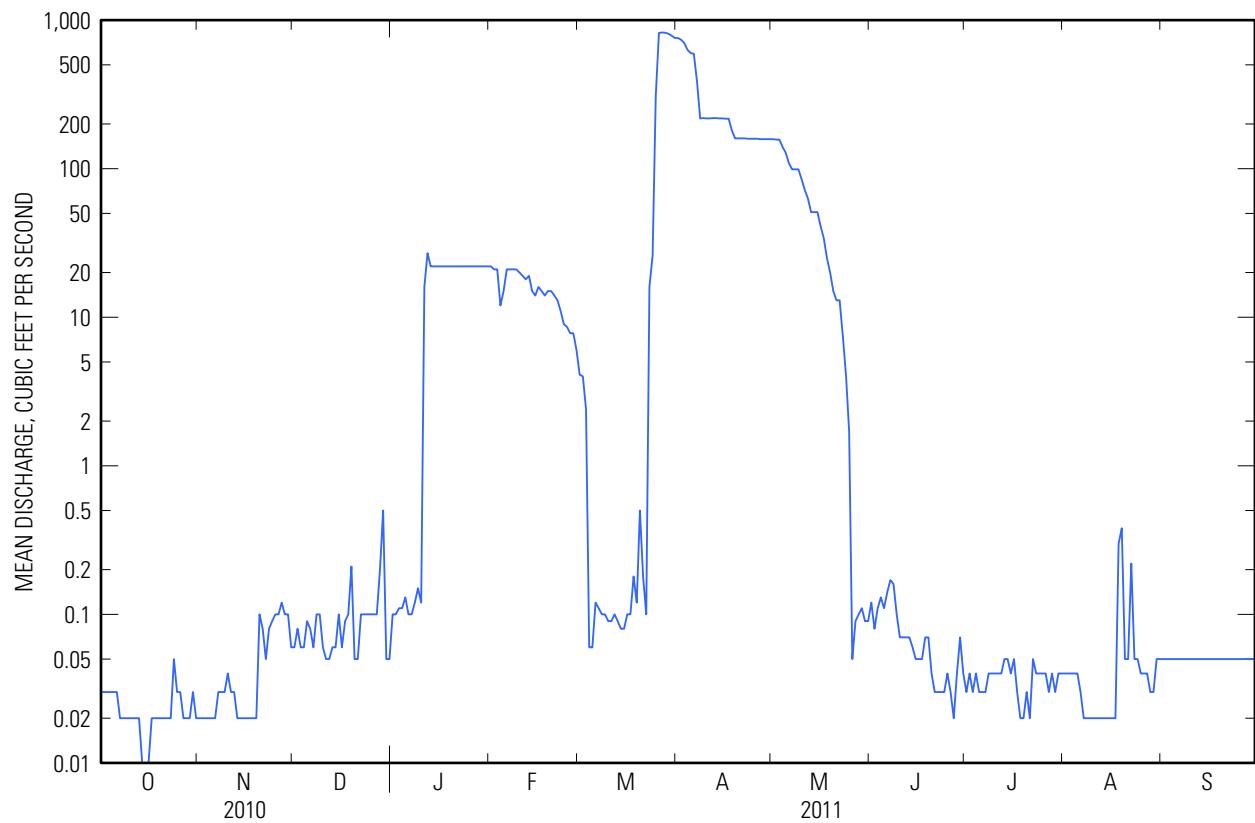
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.6	13.4	12.7	8.97	5.04	32.1	62.6	53.4	27.2	16.8	15.0	14.8
Max	62.8	62.3	54.0	35.9	22.1	230	291	313	122	84.3	64.9	64.0
(WY)	(1927)	(1928)	(1927)	(1927)	(1929)	(2005)	(2006)	(2006)	(2006)	(1927)	(1926)	(1926)
Min	0.02	0.04	0.05	0.04	0.06	0.00	0.04	0.03	0.00	0.01	0.01	0.02
(WY)	(2011)	(2004)	(2004)	(2003)	(2004)	(1925)	(2007)	(2007)	(1929)	(2003)	(2004)	(2004)

SUMMARY STATISTICS

	Calendar Year 2010			Water Year 2011			Water Years 1925 - 2011			
Annual total	28.67			16,463.81						
Annual mean	0.08			45.1			23.7			
Highest annual mean							62.4			
Lowest annual mean							0.05			
Highest daily mean	0.52	Apr 12		826	Mar 27		826	Mar 27, 2011		
Lowest daily mean	0.01	Oct 14		0.01	Oct 14		0.00	Oct 7, 1924		
Annual seven-day minimum	0.02	Oct 10		0.02	Oct 10		0.00	Dec 23, 1924		
Maximum peak flow					1,060	Mar 28		1,070	Apr 25, 2006	
Maximum peak stage					8.95	Mar 28		8.96	Apr 25, 2006	
Annual runoff (ac-ft)	57				32,660				17,150	
10 percent exceeds	0.14				158				63	
50 percent exceeds	0.06				0.08				0.08	
90 percent exceeds	0.03				0.02				0.01	

11173500 Calaveras Creek near Sunol, CA—Continued



11173500 Calaveras Creek near Sunol, CA—Continued**WATER-QUALITY RECORDS**

PERIOD OF DAILY RECORD.--October 2008 to current year.

WATER TEMPERATURE: October 2008 to current year.

INSTRUMENTATION.--Water-quality monitor since Oct. 1, 2008.

REMARKS.--Interruptions in record are due to malfunction of recording and (or) sensing equipment. Water temperature record rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 23.9°C, July 19, 2009; minimum recorded, 3.7°C, Dec. 9, 10, 2009.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 21.7°C, July 6; minimum recorded, 5.2°C, Nov. 30.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median	
October				November				December				January	
1	17.8	16.8	17.1	12.1	11.4	11.8	6.2	5.3	5.7	9.5	8.0	8.8	
2	17.6	16.6	17.0	12.3	11.3	11.7	7.3	5.8	6.4	9.9	9.4	9.6	
3	17.6	16.6	16.9	12.8	11.6	12.0	8.4	7.2	7.8	9.7	8.9	9.4	
4	16.6	15.4	16.0	13.2	12.1	12.5	9.5	8.3	8.7	8.9	7.4	8.0	
5	15.4	14.5	14.8	13.6	12.7	13.1	10.5	9.3	9.6	7.7	7.0	7.3	
6	14.8	14.0	14.4	13.6	13.0	13.3	10.8	10.0	10.4	7.0	6.2	6.5	
7	14.8	13.8	14.2	13.4	13.0	13.3	10.0	9.3	9.6	7.4	6.4	6.6	
8	14.5	13.5	14.0	13.0	11.2	12.1	10.4	9.2	9.6	7.5	6.4	6.8	
9	14.5	13.4	13.9	11.2	10.3	10.6	11.7	10.4	11.0	7.8	6.8	7.4	
10	15.3	13.8	14.4	11.4	10.6	10.8	12.4	11.6	11.8	6.8	5.6	5.9	
11	16.1	14.6	15.2	10.8	9.9	10.4	12.9	12.3	12.6	9.2	5.8	8.8	
12	16.6	15.4	15.8	9.9	9.2	9.6	12.7	12.2	12.4	9.7	9.1	9.2	
13	16.5	15.2	15.7	10.4	9.4	9.8	12.4	12.0	12.2	10.0	9.1	9.6	
14	16.9	15.5	15.9	12.1	10.2	10.9	12.4	11.9	12.1	10.0	9.3	9.7	
15	16.9	15.6	16.1	13.3	12.1	12.7	12.2	10.1	11.3	10.1	9.2	9.5	
16	16.3	15.1	15.4	13.3	12.1	12.4	10.1	8.5	8.6	10.0	9.2	9.5	
17	15.3	14.3	14.8	12.1	10.8	11.4	9.6	8.5	8.8	10.1	9.3	9.5	
18	14.6	14.0	14.2	10.8	10.1	10.4	11.1	9.6	10.5	9.8	9.2	9.3	
19	14.3	13.5	13.9	10.8	10.2	10.6	12.0	11.1	11.8	10.2	9.1	9.6	
20	14.4	13.5	13.9	10.7	9.7	10.2	11.6	10.3	11.1	9.8	8.9	9.4	
21	14.2	13.7	14.1	10.0	9.6	9.8	10.4	10.0	10.3	10.1	8.9	9.5	
22	14.1	13.6	13.9	10.2	9.6	10.0	11.2	10.4	10.9	10.1	9.1	9.6	
23	13.9	13.3	13.7	10.6	9.8	10.2	11.0	9.6	10.4	10.0	9.0	9.5	
24	14.9	13.7	14.1	9.8	7.0	8.3	9.6	8.7	9.1	10.1	9.0	9.5	
25	14.8	13.5	14.1	7.0	5.9	6.3	9.4	8.7	9.0	10.2	9.1	9.6	
26	13.5	11.9	12.5	6.1	5.3	5.8	9.3	8.6	9.1	10.2	9.1	9.6	
27	11.9	10.8	11.2	7.9	6.0	6.9	9.4	8.6	9.1	10.2	9.1	9.6	
28	11.6	10.5	11.0	7.8	6.7	7.2	9.5	8.7	9.1	10.3	9.1	9.7	
29	12.2	11.1	11.5	6.7	5.7	6.1	10.1	9.3	9.9	10.4	9.8	10.3	
30	12.7	12.0	12.3	6.0	5.2	5.7	9.3	7.3	7.7	10.6	9.9	10.3	
31	12.5	11.7	12.2	---	---	---	8.0	7.1	7.6	10.3	9.2	9.8	
Max	17.8	16.8	17.1	13.6	13.0	13.3	12.9	12.3	12.6	10.6	9.9	10.3	
Min	11.6	10.5	11.0	6.0	5.2	5.7	6.2	5.3	5.7	6.8	5.6	5.9	

11173500 Calaveras Creek near Sunol, CA—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

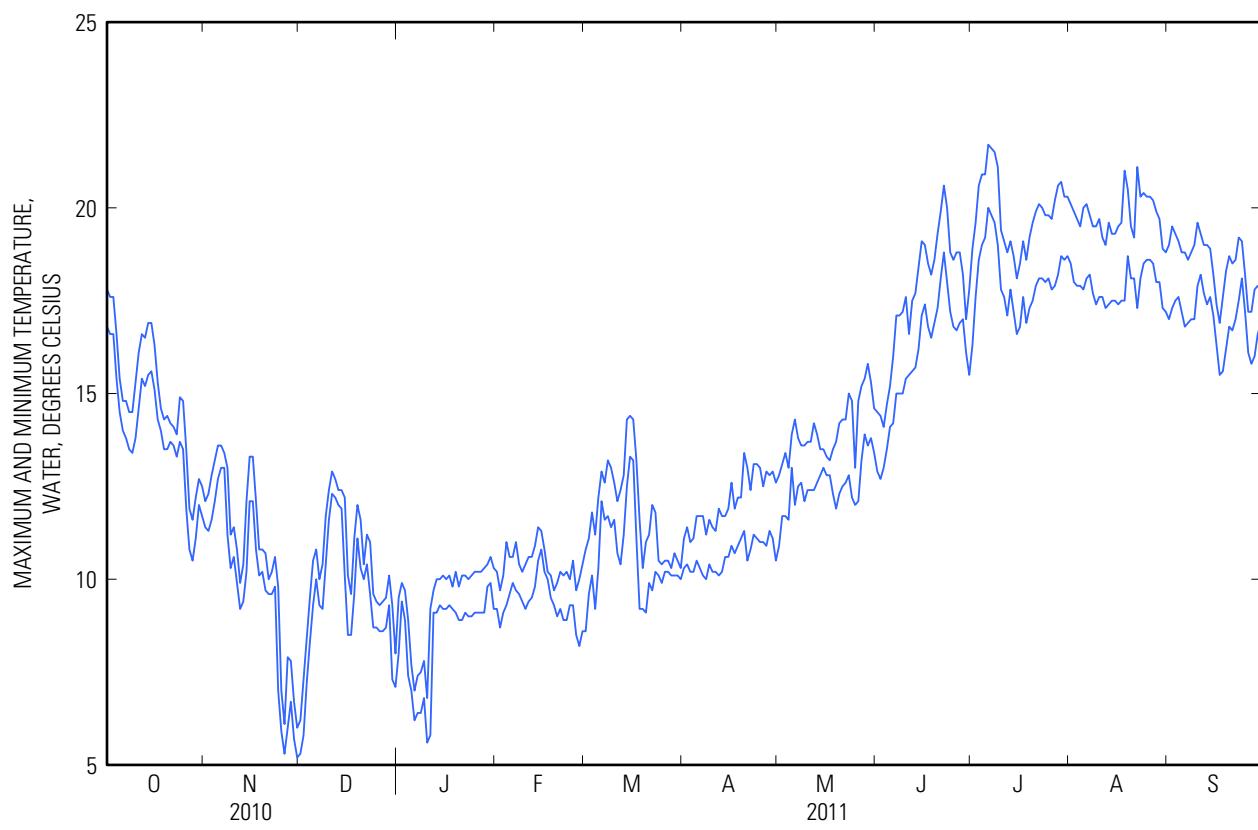
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median	
February				March				April				May	
1	10.2	9.2	9.5	10.8	8.6	9.6	11.1	10.3	10.8	12.8	10.9	12.3	
2	9.7	8.7	9.2	11.1	9.6	10.3	11.4	10.4	10.8	13.1	11.7	12.8	
3	10.1	9.1	9.6	11.8	10.1	10.9	11.0	10.2	10.5	13.4	11.7	12.8	
4	11.0	9.3	9.8	11.2	9.2	10.2	11.1	10.2	10.8	13.0	11.6	12.7	
5	10.6	9.6	10.1	12.2	10.3	10.9	11.7	10.5	11.3	13.9	13.0	13.2	
6	10.6	9.9	10.0	12.9	12.1	12.4	11.7	10.3	10.7	14.3	12.0	13.3	
7	11.0	9.7	10.4	12.6	11.6	12.1	11.7	10.1	10.5	13.8	12.5	13.2	
8	10.4	9.6	10.0	13.2	11.7	12.3	11.2	10.0	10.7	13.6	12.6	13.1	
9	10.2	9.4	9.6	13.0	11.4	12.2	11.6	10.4	10.8	13.6	12.1	13.2	
10	10.4	9.2	9.7	12.6	11.6	11.9	11.4	10.2	11.0	13.7	12.4	13.2	
11	10.6	9.4	9.8	12.1	10.7	11.4	11.3	10.2	10.8	13.7	12.4	13.1	
12	10.6	9.5	10.1	12.4	10.4	11.3	11.9	10.1	11.2	14.2	12.4	13.2	
13	10.9	9.8	10.5	12.8	11.2	11.7	11.7	10.2	11.0	13.9	12.6	12.9	
14	11.4	10.5	11.0	14.3	12.5	13.2	11.7	10.6	11.3	13.5	12.8	13.3	
15	11.3	10.8	10.9	14.4	13.3	13.9	11.9	10.6	11.2	13.5	13.0	13.2	
16	10.8	10.2	10.6	14.3	13.2	13.9	12.6	10.9	11.7	13.3	12.8	13.0	
17	10.2	10.0	10.1	13.2	11.1	11.9	11.9	10.7	11.5	13.2	12.8	12.9	
18	10.1	9.5	10.0	11.6	9.2	11.2	12.2	10.9	11.5	13.5	12.3	12.8	
19	9.7	9.3	9.5	10.3	9.2	9.6	12.2	11.1	11.6	13.7	11.9	12.7	
20	9.9	9.0	9.5	11.0	9.1	10.3	13.4	11.3	11.7	14.2	12.3	13.0	
21	10.2	9.2	9.5	11.2	9.9	10.4	13.0	10.5	11.6	14.3	12.5	12.9	
22	10.1	8.9	9.3	12.0	9.7	10.7	12.4	10.8	11.7	14.3	12.6	13.1	
23	10.2	8.9	9.7	11.8	10.2	10.9	13.1	11.2	11.9	15.0	12.8	13.2	
24	10.0	9.3	9.7	10.5	10.1	10.3	13.1	11.1	11.7	14.8	12.2	13.1	
25	10.5	9.3	9.6	10.4	9.9	10.3	13.0	11.0	12.1	13.0	12.0	12.6	
26	9.7	8.5	8.9	10.5	10.2	10.4	12.5	11.0	11.6	14.8	12.1	12.9	
27	10.0	8.2	8.9	10.5	10.2	10.2	12.9	10.9	12.1	15.2	13.2	13.8	
28	10.4	8.6	9.0	10.3	10.1	10.3	12.8	11.3	12.2	15.4	13.9	14.5	
29	---	---	---	10.7	10.1	10.3	12.9	11.1	11.6	15.8	13.6	14.7	
30	---	---	---	10.5	10.1	10.3	12.6	10.5	11.9	15.3	13.8	14.5	
31	---	---	---	10.3	10.0	10.1	---	---	---	14.6	13.4	13.9	
Max	11.4	10.8	11.0	14.4	13.3	13.9	13.4	11.3	12.2	15.8	13.9	14.7	
Min	9.7	8.2	8.9	10.3	8.6	9.6	11.0	10.0	10.5	12.8	10.9	12.3	

11173500 Calaveras Creek near Sunol, CA—Continued
TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June				July				August			
1	14.5	12.9	13.3	18.9	16.3	17.4	20.1	18.5	19.3	19.0	17.0	17.9
2	14.4	12.7	13.8	19.6	17.6	18.8	19.9	18.0	18.9	19.5	17.3	18.2
3	14.1	13.0	13.5	20.6	18.6	19.7	19.7	17.9	18.9	19.3	17.5	18.3
4	14.7	13.5	13.9	20.9	19.0	20.2	19.5	17.9	18.8	19.1	17.6	18.4
5	15.2	14.1	14.6	20.9	19.2	20.3	20.0	17.8	18.6	18.8	17.2	18.0
6	16.0	14.2	14.9	21.7	20.0	20.9	20.1	18.1	19.1	18.8	16.8	17.6
7	17.1	15.0	15.8	21.6	19.8	20.9	19.8	18.2	19.1	18.6	16.9	17.7
8	17.1	15.0	16.2	21.5	19.6	20.6	19.5	17.7	18.5	18.8	17.0	17.8
9	17.2	15.0	16.3	21.1	19.0	20.0	19.5	17.4	18.4	19.0	17.0	17.7
10	17.6	15.4	16.7	19.4	17.8	18.8	19.7	17.6	18.6	19.6	17.9	18.6
11	16.6	15.5	16.1	19.1	17.6	18.3	19.2	17.6	18.6	19.3	18.2	18.7
12	17.5	15.6	16.4	18.8	17.1	18.1	19.0	17.3	18.1	19.0	17.7	18.4
13	17.7	15.7	16.7	19.1	17.8	18.2	19.6	17.4	18.4	19.0	17.4	18.1
14	18.4	16.2	17.3	18.7	17.2	17.9	19.3	17.5	18.4	18.9	17.6	18.3
15	19.1	17.1	18.2	18.1	16.6	17.4	19.3	17.5	18.4	18.2	17.1	17.7
16	19.0	17.4	18.3	18.5	16.8	17.8	19.5	17.4	18.4	17.4	16.3	16.8
17	18.5	16.8	17.6	19.1	17.6	18.2	19.6	17.5	18.6	16.9	15.5	16.2
18	18.2	16.5	17.4	18.6	16.9	17.9	21.0	17.5	18.5	17.6	15.6	16.4
19	18.6	16.9	17.9	19.2	17.3	18.4	20.5	18.7	19.6	18.3	16.2	17.0
20	19.3	17.3	18.2	19.6	17.5	18.6	19.5	18.1	18.8	18.7	16.8	17.6
21	19.9	18.1	19.0	19.9	17.9	19.1	19.2	18.1	18.6	18.5	16.7	17.5
22	20.6	18.8	19.7	20.1	18.1	19.2	21.1	17.3	19.6	18.6	17.0	17.8
23	20.0	18.0	19.1	20.0	18.1	19.3	20.3	18.1	19.1	19.2	17.5	18.2
24	18.8	17.2	18.3	19.8	18.0	19.1	20.4	18.5	19.5	19.1	18.1	18.6
25	18.6	16.8	18.0	19.8	18.1	19.0	20.3	18.6	19.4	18.2	17.2	17.7
26	18.8	16.7	17.8	19.7	17.8	18.8	20.3	18.6	19.4	17.2	16.1	16.7
27	18.8	16.9	18.1	20.2	17.9	18.9	20.2	18.5	19.3	17.2	15.8	16.4
28	18.2	17.0	17.6	20.6	18.2	19.4	19.9	18.0	18.9	17.8	16.0	16.6
29	17.0	16.1	16.5	20.7	18.7	19.7	19.7	18.0	18.9	17.9	16.6	17.2
30	17.8	15.5	16.5	20.3	18.6	19.6	18.9	17.3	18.2	17.8	16.9	17.3
31	---	---	---	20.3	18.7	19.5	18.8	17.2	18.0	---	---	---
Max	20.6	18.8	19.7	21.7	20.0	20.9	21.1	18.7	19.6	19.6	18.2	18.7
Min	14.1	12.7	13.3	18.1	16.3	17.4	18.8	17.2	18.0	16.9	15.5	16.2

	Max	Min	Median
Year Maximum	21.7	20.0	20.9
Year Minimum	6.0	5.2	5.7

11173500 Calaveras Creek near Sunol, CA—Continued



11173500 Calaveras Creek near Sunol, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[ft, feet; °C, degrees Celsius]

Sample date-time	Tempera- ture, water, °C (00010)	Depth to bottom at sample location, ft (81903)		Sampling depth, ft (00003)	Stream width, ft (00004)	Location in cross section, distance from left bank looking down- stream, ft (00009)
		Location in cross section from left bank looking down- stream ft (00009)				
09-21-2011 1018	16.6	.20		.12	23.0	1.20
09-21-2011 1019	16.9	1.10		.22	23.0	3.50
09-21-2011 1020	16.9	1.10		.88	23.0	3.50
09-21-2011 1022	16.9	2.15		.43	23.0	5.80
09-21-2011 1023	16.9	2.15		1.72	23.0	5.80
09-21-2011 1025	16.9	1.97		.39	23.0	8.10
09-21-2011 1026	16.9	1.97		1.58	23.0	8.10
09-21-2011 1028	16.9	2.06		.41	23.0	10.4
09-21-2011 1029	16.9	2.06		1.65	23.0	10.4
09-21-2011 1031	16.9	1.56		.31	23.0	12.7
09-21-2011 1032	16.9	1.56		1.25	23.0	12.7
09-21-2011 1034	16.9	1.22		.24	23.0	15.0
09-21-2011 1035	16.9	1.22		.98	23.0	15.0
09-21-2011 1036	16.9	1.34		.27	23.0	17.3
09-21-2011 1037	16.9	1.34		1.07	23.0	17.3
09-21-2011 1038	16.9	.97		.19	23.0	19.6
09-21-2011 1039	16.9	.97		.78	23.0	19.6
09-21-2011 1040	16.9	.43		.26	23.0	21.9

Note: Instantaneous discharge at mean time of cross-sectional measurement:
Sept. 21, 0.05 ft³/s.