

Water-Data Report 2011

11180900 Crow Creek near Hayward, CA

San Lorenzo Creek Basin

LOCATION.--Lat 37°42'18", long 122°02'34" referenced to North American Datum of 1927, Alameda County, CA, Hydrologic Unit 18050004, in San Lorenzo Grant, on right bank upstream of Crow Canyon Road bridge, 0.4 mi east of Canyon High School, 0.8 mi upstream of confluence of Cull Creek, and 2.3 mi northeast of Castro Valley.

DRAINAGE AREA.--10.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1997 to current year.

WATER TEMPERATURE: Water years 2000-03 (storm season only).

SEDIMENT DATA: Water years 2000-03 (storm season only).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 270 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,990 ft³/s, Feb. 3, 1998, gage height, 13.07 ft, from rating curve extended above 700 ft³/s; minimum daily, 0.01 ft³/s, Oct. 13-15, 2002.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 19	0745	382	7.04
Dec 29	0100	1,100	10.13
Mar 20	0300	369	6.97
Mar 24	1345	*1,230	*10.61

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11180900 Crow Creek near Hayward, 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	0.10	1.1	1.0	9.7	3.8	8.7	12	5.1	3.7	1.4	0.86	0.41
2	0.10	1.3	0.97	8.3	3.2	8.1	12	4.9	3.3	1.3	0.77	0.35
3	0.10	1.1	0.98	6.6	3.1	7.5	11	5.0	3.3	1.2	0.71	0.34
4	0.10	1.1	1.0	6.1	3.1	6.9	10	4.8	6.4	1.2	0.79	0.38
5	0.09	1.1	2.8	6.0	3.1	6.6	9.7	4.7	2.7	1.1	0.86	0.38
6	0.08	1.2	2.2	5.8	3.0	13	9.3	4.7	2.4	1.1	0.82	0.34
7	0.08	5.0	1.2	5.4	2.9	8.9	9.4	4.7	2.4	1.1	0.78	0.34
8	0.08	2.1	5.3	4.9	2.9	7.2	9.0	4.8	2.2	1.1	0.75	0.29
9	0.08	1.5	3.7	4.4	2.8	6.5	8.5	4.7	2.2	1.1	0.70	0.33
10	0.08	1.7	1.8	4.3	2.8	6.3	8.2	4.7	2.2	1.1	0.66	0.38
11	0.08	1.3	1.5	4.2	2.8	6.1	8.2	4.6	2.2	1.1	0.64	0.35
12	0.07	1.1	1.4	4.0	2.8	5.8	8.1	4.6	2.2	1.2	0.64	0.38
13	0.08	1.3	1.5	4.1	2.8	6.9	8.3	4.5	2.1	1.3	0.63	0.39
14	0.08	1.2	4.4	4.0	2.8	8.7	7.4	4.7	2.0	1.3	0.64	0.41
15	0.08	1.2	2.6	3.8	3.1	9.0	7.2	5.9	1.9	1.3	0.62	0.39
16	0.08	1.2	1.3	3.5	8.7	18	7.1	4.7	1.9	1.3	0.60	0.38
17	0.11	1.3	3.8	3.4	26	8.6	7.0	5.5	1.8	1.2	0.60	0.37
18	0.08	1.3	11	3.2	22	42	7.0	5.8	1.8	1.2	0.57	0.31
19	0.08	2.3	99	3.3	44	59	6.9	4.3	1.7	1.1	0.59	0.33
20	0.08	6.8	17	3.2	16	114	6.5	3.8	1.7	1.1	0.61	0.31
21	0.08	5.9	10	3.2	9.9	23	6.5	3.7	1.5	1.1	0.61	0.31
22	0.09	1.5	10	3.1	7.9	13	6.2	3.6	1.5	1.0	0.63	0.30
23	0.22	3.8	7.3	3.0	7.2	31	6.0	3.5	1.5	0.95	0.56	0.31
24	5.1	1.4	6.4	3.0	9.6	246	6.2	3.5	1.5	0.94	0.47	0.31
25	1.9	0.99	18	3.0	89	74	6.0	3.8	1.6	0.94	0.55	0.39
26	1.0	0.94	15	2.9	17	71	5.8	3.6	1.6	0.92	0.48	0.46
27	0.95	3.2	9.2	2.9	12	28	5.6	3.5	1.6	0.83	0.46	0.38
28	0.90	1.6	39	2.9	9.7	21	5.5	3.5	4.3	0.77	0.45	0.28
29	0.90	1.1	170	2.9	---	17	5.4	3.4	2.0	0.77	0.41	0.26
30	1.2	0.95	17	10	---	15	5.2	3.2	1.6	0.77	0.42	0.29
31	1.3	---	8.9	4.7	---	13	---	3.6	---	0.80	0.41	---
Total	15.35	57.58	475.25	139.8	324.0	909.8	231.2	135.4	68.8	33.59	19.29	10.45
Mean	0.50	1.92	15.3	4.51	11.6	29.3	7.71	4.37	2.29	1.08	0.62	0.35
Max	5.1	6.8	170	10	89	246	12	5.9	6.4	1.4	0.86	0.46
Min	0.07	0.94	0.97	2.9	2.8	5.8	5.2	3.2	1.5	0.77	0.41	0.26
Ac-ft	30	114	943	277	643	1,800	459	269	136	67	38	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.42	0.96	7.55	11.5	23.9	13.7	7.61	2.88	1.31	0.57	0.33	0.26
Max	0.96	1.92	34.8	50.4	122	38.3	33.4	6.46	3.28	1.58	0.83	0.61
(WY)	(2001)	(2011)	(2003)	(1998)	(1998)	(2006)	(2006)	(2006)	(1998)	(1998)	(2006)	(1998)
Min	0.04	0.14	0.60	0.48	3.32	2.23	1.16	0.46	0.13	0.09	0.07	0.05
(WY)	(2003)	(2010)	(2009)	(2009)	(2009)	(2007)	(2008)	(2008)	(2001)	(2001)	(2008)	(2008)

11180900 Crow Creek near Hayward, CA—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1998 - 2011	
Annual total	1,964.38	2,420.51		
Annual mean	5.38	6.63	5.80	
Highest annual mean			18.2	1998
Lowest annual mean			1.11	2001
Highest daily mean	170	Dec 29	549	Dec 31, 2005
Lowest daily mean	0.07	Oct 12	0.01	Oct 13, 2002
Annual seven-day minimum	0.08	Oct 6	0.02	Oct 13, 2002
Maximum peak flow			1,990	Feb 3, 1998
Maximum peak stage			13.07	Feb 3, 1998
Annual runoff (ac-ft)	3,900	4,800	4,210	
10 percent exceeds	9.8	10	11	
50 percent exceeds	2.2	2.6	0.97	
90 percent exceeds	0.10	0.34	0.10	

