



Water-Data Report 2011

11181000 San Lorenzo Creek at Hayward, CA

San Lorenzo Creek Basin

LOCATION.--Lat 37°41'08", long 122°03'48" referenced to North American Datum of 1927, Alameda County, CA, Hydrologic Unit 18050004, in San Lorenzo Grant, on left bank, 300 ft downstream of Center Street Bridge, just outside city limits of Hayward, 0.6 mi downstream from Crow Creek, and 1.0 mi downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1940 to September 1940, October 1946 to April 1983, October 1997 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1315-B: 1947 (instantaneous maximum discharge), 1949 (instantaneous maximum discharge). WSP 1345: 1940 (instantaneous maximum discharge). WSP 1715: 1947.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 133.16 ft above NGVD of 1929. January to September 1940, nonrecording gage on bridge 0.1 mi upstream at present datum.

REMARKS.--Records good. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft, and since January 1965 by Don Castro Reservoir, 1.0 mi upstream, capacity, 380 acre-ft. A few very small diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,140 ft³/s, Feb. 3, 1998, gage height, 21.85 ft; no flow at times.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 19	0915	1,030	8.73
Dec 29	0230	2,480	13.03
Feb 25	1015	561	6.77
Mar 20	0415	901	8.26
Mar 24	1445	*3,050	*14.34

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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	0.44	1.1	2.1	41	11	28	54	11	11	5.9	1.9	0.36
2	0.48	1.1	2.2	35	8.9	26	48	11	9.8	5.1	1.7	0.29
3	0.46	0.99	2.1	27	8.2	22	43	11	9.2	4.6	1.6	0.18
4	0.46	0.99	1.8	23	8.1	20	39	10	36	4.2	1.7	0.17
5	0.53	1.2	13	21	7.6	19	36	9.8	14	3.8	2.2	0.23
6	0.52	1.1	8.3	19	6.7	45	34	9.8	10	3.4	2.0	0.22
7	0.88	17	3.3	19	6.6	30	33	9.9	9.3	3.3	1.6	0.19
8	0.40	5.6	23	18	6.4	21	30	9.9	8.7	3.5	1.6	0.11
9	0.39	2.4	15	17	6.4	19	28	9.8	8.3	2.7	1.2	0.17
10	0.43	3.1	5.6	15	6.7	18	26	9.7	8.1	2.7	0.98	0.21
11	0.44	1.6	3.8	14	6.9	17	25	9.6	8.2	2.8	0.89	0.14
12	0.42	1.3	3.2	13	6.9	16	24	9.6	8.2	3.3	0.88	0.18
13	0.34	1.2	3.0	15	7.0	21	25	9.5	7.9	3.3	0.76	0.21
14	0.34	1.2	16	13	7.3	28	22	9.6	7.7	3.9	0.57	0.24
15	0.34	1.1	9.7	12	8.3	23	21	23	7.2	3.5	0.61	0.27
16	0.37	1.2	4.2	12	42	65	20	13	7.0	3.5	0.57	0.27
17	0.47	1.2	15	11	98	26	20	16	6.8	3.9	0.57	0.23
18	0.68	1.2	47	11	83	127	20	20	6.6	2.7	0.57	0.16
19	0.63	3.5	312	10	160	201	21	11	6.1	2.8	0.58	0.07
20	0.62	33	56	9.4	73	376	18	10	5.5	2.5	0.75	0.05
21	0.71	30	27	9.2	39	135	18	9.8	5.5	2.2	0.68	0.04
22	1.0	7.7	28	9.2	28	88	17	9.7	6.0	2.4	0.70	0.03
23	1.1	22	19	8.5	23	139	16	9.4	5.9	2.4	0.73	0.03
24	23	5.3	17	8.3	30	776	16	9.2	5.7	2.5	0.46	0.05
25	4.9	2.9	49	8.3	242	281	15	10	5.6	2.5	0.42	0.07
26	1.5	2.4	54	8.1	69	249	14	9.6	5.6	2.6	0.49	0.24
27	1.1	13	25	7.6	43	147	14	9.1	5.6	2.6	0.44	0.19
28	0.98	5.0	65	7.6	33	111	13	9.1	33	2.5	0.43	0.08
29	0.98	2.7	541	7.8	---	86	13	9.0	12	2.2	0.40	0.03
30	1.6	2.2	66	35	---	71	12	8.6	6.5	1.8	0.41	0.03
31	1.3	---	40	15	---	61	---	12	---	1.7	0.43	---
Total	47.81	174.28	1,477.3	480.0	1,076.0	3,292	735	338.7	287.0	96.8	28.82	4.74
Mean	1.54	5.81	47.7	15.5	38.4	106	24.5	10.9	9.57	3.12	0.93	0.16
Max	23	33	541	41	242	776	54	23	36	5.9	2.2	0.36
Min	0.34	0.99	1.8	7.6	6.4	16	12	8.6	5.5	1.7	0.40	0.03
Ac-ft	95	346	2,930	952	2,130	6,530	1,460	672	569	192	57	9.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.38	3.52	21.0	48.1	50.0	38.3	24.3	6.16	2.59	1.13	0.73	0.62
Max	107	30.1	184	227	327	267	255	21.3	9.57	5.22	4.58	2.89
(WY)	(1963)	(1951)	(1956)	(1952)	(1998)	(1983)	(1958)	(1967)	(2011)	(1982)	(1980)	(1968)
Min	0.00	0.00	0.13	0.39	0.73	0.84	0.29	0.12	0.04	0.00	0.00	0.00
(WY)	(1947)	(1949)	(1949)	(1949)	(1948)	(1972)	(1977)	(1976)	(1977)	(1961)	(1947)	(1947)

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	Calendar Year 2010	Water Year 2011	Water Years 1940 - 2011	
Annual total	6,470.77	8,038.45		
Annual mean	17.7	22.0	15.7	
Highest annual mean			56.4	1982
Lowest annual mean			0.63	1977
Highest daily mean	541	Dec 29	776	Mar 24
Lowest daily mean	0.34	Sep 29	0.03	Sep 22
Annual seven-day minimum	0.38	Oct 10	0.05	Sep 19
Maximum peak flow			3,050	Mar 24
Maximum peak stage			14.34	Mar 24
Annual runoff (ac-ft)	12,830	15,940	11,360	
10 percent exceeds	38	40	31	
50 percent exceeds	3.9	7.7	1.8	
90 percent exceeds	0.54	0.40	0.01	

