Water-Data Report 2012

11180825 San Lorenzo Creek above Don Castro Reservoir, near Castro Valley, CA

San Lorenzo Creek Basin

LOCATION.--Lat 37°41′43″, long 122°02′38″ referenced to North American Datum of 1927, Alameda County, CA, Hydrologic Unit 18050004, in San Lorenzo Grant, on right bank at Interstate Highway 580, 0.3 mi southeast of Independent School, and 2.2 mi east of Castro Valley.

DRAINAGE AREA.--18.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1980 to September 1994, October 1997 to current year.
WATER TEMPERATURE: Water years 1981-94, 1998-2003.
SEDIMENT DATA: Water years 1981-94, 1998-2003.

GAGE.--Water-stage recorder. Elevation of gage is 260 ft above NGVD of 1929, from topographic map. October 1980 to September 1994 at site 250 ft downstream at same datum.

REMARKS.--Records good. Some regulation of low flow by ponds upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,890 ft^3/s, Feb. 3, 1998, gage height, 15.48 ft; no flow for many days in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 275 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 21	0030	330	7.08
Apr 13	0715	*566	*9.15

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 11180825, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/11180825.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.57	1.1	0.55	0.64	0.64	4.8	4.5	2.5	0.98	0.69	0.23	0.26
2	0.55	1.1	0.64	0.64	0.62	1.7	2.4	2.3	0.89	0.72	0.22	0.23
3	1.4	1.6	0.64	0.64	0.55	1.3	2.1	2.3	0.87	0.82	0.24	0.24
4	1.1	2.1	0.63	0.64	0.54	1.1	2.0	2.6	1.8	0.70	0.26	0.51
5	6.3	3.8	0.67	0.72	0.54	1.1	1.6	2.1	1.1	0.54	0.30	0.32
6	2.8	1.3	0.64	0.64	0.54	1.2	1.6	2.0	0.95	0.52	0.28	0.29
7	1.6	0.57	0.65	0.59	2.2	1.1	1.5	1.9	0.90	0.48	0.27	0.23
8	1.3	0.56	0.70	0.57	1.2	1.0	1.2	1.8	0.88	0.43	0.26	0.22
9	1.2	0.61	0.71	0.55	0.99	1.1	1.2	1.7	0.80	0.48	0.24	0.21
10	2.9	0.62	0.67	0.57	0.90	1.1	12	1.7	0.75	0.49	0.23	0.20
11	2.5	0.82	0.70	0.54	1.0	1.1	13	1.6	0.72	0.43	0.23	0.22
12	1.4	0.70	0.88	0.55	0.95	0.99	25	1.5	0.71	0.38	0.20	0.21
13	1.3	0.63	0.64	0.58	2.3	2.8	190	1.5	0.72	0.40	0.21	0.22
14	1.2	0.55	0.64	0.64	1.2	6.5	29	1.4	0.74	0.44	0.21	0.20
15	1.2	0.54	0.87	0.64	1.7	2.5	15	1.5	0.70	0.38	0.27	0.21
16	1.2	0.54	0.61	0.64	0.97	32	9.6	1.5	0.63	0.36	0.24	0.21
17	1.2	0.54	0.61	0.64	0.87	13	8.1	1.5	0.60	0.38	0.25	0.18
18	1.1	0.97	0.63	0.69	0.86	2.8	6.6	1.4	0.65	0.37	0.24	0.80
19	1.1	1.5	0.64	0.79	0.86	3.3	5.7	1.3	0.72	0.34	0.23	0.24
20	1.2	3.2	0.58	19	0.86	2.4	5.0	1.2	0.68	0.33	0.23	0.26
21	1.2	0.92	0.56	30	0.86	1.8	4.6	1.2	0.74	0.30	0.26	0.25
22	1.1	0.63	0.56	1.3	0.86	1.7	4.2	1.2	0.79	0.27	0.25	0.22
23	1.1	0.58	0.56	8.7	0.86	1.5	3.8	1.2	0.74	0.27	0.26	0.23
24	1.1	0.73	0.62	1.5	0.77	4.2	3.5	1.2	0.68	0.28	0.26	0.24
25	1.1	0.55	0.63	0.94	0.74	13	3.7	1.5	0.66	0.29	0.26	0.24
26	1.1	0.54	0.64	0.83	0.75	3.1	6.5	1.3	0.64	0.30	0.26	0.27
27	1.1	0.54	0.62	0.74	0.81	11	3.3	1.2	0.61	0.31	0.24	0.26
28	1.1	0.54	0.58	0.65	0.75	15	2.9	1.2	0.62	0.24	0.24	0.27
29	1.1	0.54	0.55	0.64	4.2	3.8	2.7	1.1	0.63	0.25	0.31	0.28
30	1.1	0.52	0.61	0.64	---	2.1	2.5	1.1	0.68	0.27	0.22	0.23
31	1.1	---	0.64	0.64	---	11	---	1.0	---	0.23	0.25	---
Total	45.32	29.44	19.87	77.49	30.89	151.09	374.8	48.5	23.58	12.69	7.65	7.95
Mean	1.46	0.98	0.64	2.50	1.07	4.87	12.5	1.56	0.79	0.41	0.25	0.27
Max	6.3	3.8	0.88	30	4.2	32	190	2.6	1.8	0.82	0.31	0.80
Min	0.55	0.52	0.55	0.54	0.54	0.99	1.2	1.0	0.60	0.23	0.20	0.18
Ac-ft	90	58	39	154	61	300	743	96	47	25	15	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.94	2.43	8.49	14.3	26.7	18.7	8.95	3.02	1.43	0.59	0.32	0.26
Max	3.45	16.6	51.9	79.3	194	90.7	56.5	13.0	4.44	2.05	0.78	0.64
(WY)	(2010)	(1984)	(2003)	(1993)	(1998)	(1983)	(2006)	(1983)	(1998)	(1983)	(1998)	(2011)
Min	0.07	0.12	0.64	0.16	0.65	0.47	0.70	0.19	0.14	0.02	0.00	0.00
(WY)	(1989)	(1993)	(2012)	(1991)	(1989)	(1990)	(1990)	(1991)	(1990)	(1989)	(1988)	(1988)

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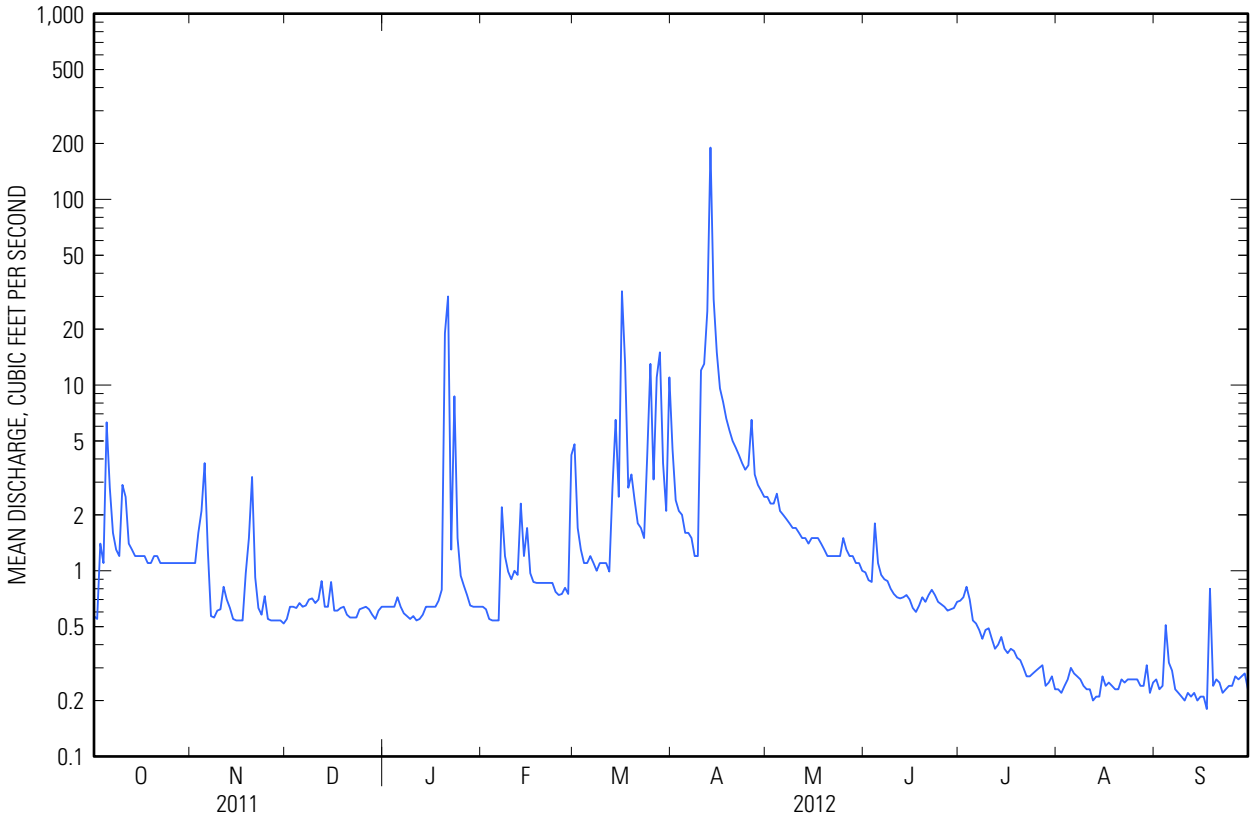
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1981 - 2012	
Annual total	3,586.74		829.27			
Annual mean	9.83		2.27		7.07	
Highest annual mean					25.8	1998
Lowest annual mean					0.70	1989
Highest daily mean	481	Mar 24	190	Apr 13	1,270	Feb 3, 1998
Lowest daily mean	0.50	Sep 29	0.18	Sep 17	0.00	Aug 28, 1981
Annual seven-day minimum	0.54	Nov 25	0.21	Sep 11	0.00	Sep 6, 1981
Maximum peak flow			566	Apr 13	3,890	Feb 3, 1998
Maximum peak stage			9.15	Apr 13	15.48	Feb 3, 1998
Annual runoff (ac-ft)	7,110		1,640		5,120	
10 percent exceeds	17		3.2		13	
50 percent exceeds	2.1		0.73		0.87	
90 percent exceeds	0.61		0.24		0.09