Water-Data Report 2011

11172955 Alameda Creek below Diversion Dam, near Sunol CA

Alameda Creek Basin

LOCATION.--Lat 37°29′55″, long 121°46′46″ referenced to North American Datum of 1983, in SW ¼ NE ¼ sec.17, T.5 S., R.2 E., Alameda County, CA, Hydrologic Unit 18050004, on right bank, 1,400 ft downstream of diversion dam, 3.1 mi upstream of confluence with Calaveras Creek, and 9 mi southeast of Sunol.

DRAINAGE AREA.--34.9 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1, 2010, to Sept. 30, 2011.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 850 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Diversion 1,400 ft upstream from gagediverts water from Alameda Creek to Calaveras Reservoir. See schematic diagram of Alameda Creek Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,470 ft^3/s, Mar. 24, 2011, gage height, 11.79 ft, from rating curve extended above 88.5 ft^3/s; minimum daily discharge, 0.06 ft^3/s, Oct. 1, 2010.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,470 ft^3/s, Mar. 24, gage height, 11.79 ft; minimum discharge, 0.06 ft^3/s, Oct. 1, gage height, 4.23 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 11172955, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/11172955.2011.pdf

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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	0.06	0.15	2.9	0.28	0.31	0.43	57	9.0	5.5	2.7	0.92	0.25
2	0.07	0.14	2.1	0.31	0.31	0.41	49	8.5	5.6	2.5	0.89	0.23
3	0.07	0.14	1.9	0.31	0.31	0.39	42	8.2	5.2	2.4	0.86	0.19
4	0.07	0.14	1.7	0.28	0.29	0.38	37	8.0	6.2	2.2	0.82	0.19
5	0.08	0.14	1.9	0.28	0.29	0.38	33	7.6	7.7	2.2	0.82	0.20
6	0.09	0.14	2.0	0.28	0.28	0.40	31	7.3	6.6	2.0	0.80	0.20
7	0.10	0.19	2.1	0.28	0.28	0.43	32	7.2	5.8	1.9	0.77	0.17
8	0.11	0.26	2.5	0.28	0.28	0.43	30	7.3	5.2	1.9	0.74	0.15
9	0.10	0.21	2.5	0.28	0.28	0.43	26	7.3	4.8	1.8	0.67	0.15
10	0.10	0.22	2.5	0.27	0.28	0.40	23	7.1	4.5	1.8	0.62	0.15
11	0.10	0.20	2.5	0.26	0.28	0.38	22	6.8	4.4	1.7	0.58	0.16
12	0.09	0.19	2.5	0.27	0.28	0.38	21	6.5	4.3	1.7	0.56	0.17
13	0.09	0.19	2.5	0.26	0.28	0.38	20	6.3	4.1	1.7	0.53	0.17
14	0.09	0.18	2.6	0.26	0.28	0.38	19	6.2	3.9	1.6	0.44	0.17
15	0.08	0.18	2.6	0.25	0.28	9.6	18	8.3	3.7	1.5	0.41	0.16
16	0.08	0.17	2.6	0.25	0.45	37	17	7.6	3.6	1.5	0.39	0.16
17	0.10	0.17	2.7	0.25	9.9	36	16	7.8	3.5	1.5	0.37	0.16
18	0.11	0.17	0.89	0.25	29	72	16	11	3.4	1.5	0.34	0.16
19	0.12	0.20	75	0.25	65	135	15	8.8	3.2	1.4	0.34	0.15
20	0.11	0.39	0.54	0.25	0.39	571	14	7.2	3.0	1.3	0.38	0.14
21	0.11	1.0	0.49	0.26	0.35	327	15	6.5	2.9	1.2	0.40	0.14
22	0.12	0.49	0.50	0.27	0.32	198	14	6.1	2.7	1.2	0.39	0.13
23	0.13	9.7	0.46	0.28	0.31	269	13	5.8	2.6	1.2	0.34	0.13
24	0.17	27	0.46	0.28	0.32	596	13	5.6	2.6	1.1	0.29	0.13
25	0.21	6.1	0.51	0.28	439	405	12	5.6	2.5	1.1	0.27	0.13
26	0.15	2.9	0.58	0.28	57	320	12	5.5	2.4	1.1	0.28	0.13
27	0.13	2.6	0.52	0.27	0.49	200	11	5.3	2.3	1.0	0.26	0.13
28	0.12	27	0.59	0.27	0.44	132	10	5.3	2.6	0.98	0.24	0.13
29	0.13	7.4	222	0.26	---	100	9.9	5.9	2.6	0.94	0.22	0.13
30	0.16	3.4	0.32	0.31	---	83	9.5	5.5	2.8	0.93	0.21	0.12
31	0.16	---	0.28	0.33	---	68	---	5.3	---	0.93	0.24	---
Total	3.41	91.36	343.24	8.49	607.28	3,564.20	657.4	216.4	120.2	48.48	15.39	4.78
Mean	0.11	3.05	11.1	0.27	21.7	115	21.9	6.98	4.01	1.56	0.50	0.16
Max	0.21	27	222	0.33	439	596	57	11	7.7	2.7	0.92	0.25
Min	0.06	0.14	0.28	0.25	0.28	0.38	9.5	5.3	2.3	0.93	0.21	0.12
Ac-ft	6.8	181	681	17	1,200	7,070	1,300	429	238	96	31	9.5

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.11	3.05	11.1	0.27	21.7	115	21.9	6.98	4.01	1.56	0.50	0.16
Max	0.11	3.05	11.1	0.27	21.7	115	21.9	6.98	4.01	1.56	0.50	0.16
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	0.11	3.05	11.1	0.27	21.7	115	21.9	6.98	4.01	1.56	0.50	0.16
(WY)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)

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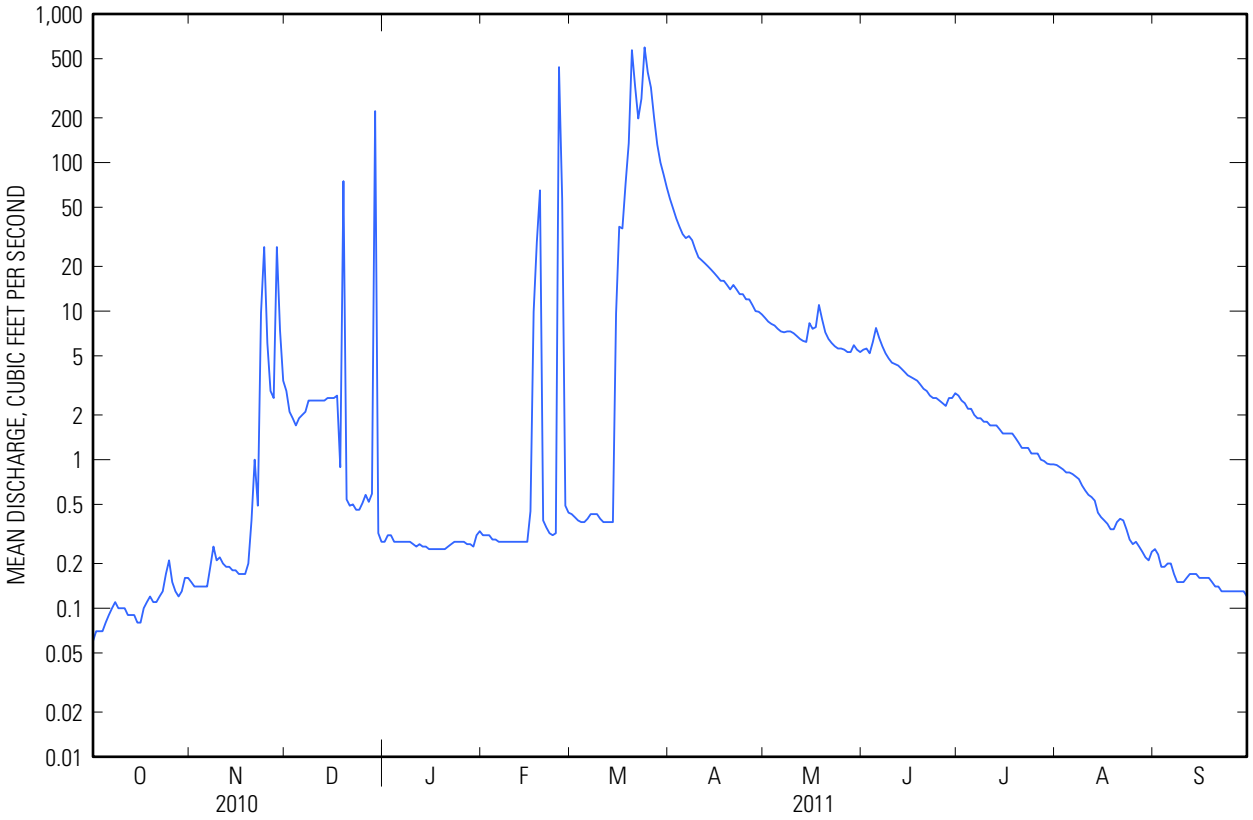
SUMMARY STATISTICS

	Water Year 2011	
Annual total	5,680.63	
Annual mean	15.6	
Highest daily mean	596	Mar 24
Lowest daily mean	0.06	Oct 1
Annual seven-day minimum	0.08	Oct 1
Maximum peak flow	2,470	Mar 24
Maximum peak stage	11.79	Mar 24
Annual runoff (ac-ft)	11,270	
10 percent exceeds	20	
50 percent exceeds	0.62	
90 percent exceeds	0.14