11028500 Santa Maria Creek near Ramona, CA

San Dieguito River Basin

LOCATION.--Lat 33°03′08″, long 116°56′41″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.11, T.13 S., R.1 W., San Diego County, CA, Hydrologic Unit 18070304, on left bank, 3.8 mi northwest of Ramona, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--57.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1912 to September 1920, October 1946 to current year.

REVISED RECORDS.--WSP 1285: 1952. WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Concrete control since October 1946. Datum of gage is 1,294.44 ft above NGVD of 1929. Prior to Oct. 1, 1946, at same site, at datum 1.78 ft lower.

REMARKS.--Records good. No regulation upstream from station. Land application of treated sewage effluent upstream from the gage beginning December 1972 contributes to low flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft³/s, Feb. 21, 1980, gage height, 14.39 ft, from rating curve extended above 166 ft³/s, on basis of slope-area measurements at gage heights 4.56 ft and 14.39 ft; no flow for many days in most years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and (or) maximum (*), from rating curve extended above 955 ft³/s, on basis of slope-area measurement at gage height 14.39 ft:

Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec 22	1015	*1,750	*5.94
Dec 29	1945	269	3.17
Feb 19	0845	352	3.42
Feb 26	1400	552	3.96

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 11028500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/11028500.2011.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	0.00	0.23	0.11	20	8.6	37	9.4	1.9	1.1	0.13	0.05	0.04
2	0.00	0.14	0.11	17	6.4	29	8.4	1.5	0.91	0.10	0.09	0.04
3	0.00	0.16	0.15	70	5.0	25	7.8	1.4	0.81	0.09	0.06	0.04
4	0.00	0.24	0.15	68	5.3	22	7.2	1.4	0.77	0.10	0.09	0.05
5	0.00	0.30	0.15	29	5.5	19	6.7	1.3	0.68	0.10	0.07	0.07
6	0.00	0.33	0.15	22	5.1	17	6.3	1.2	0.57	0.09	0.09	0.05
7	0.01	0.35	0.15	17	4.6	21	7.0	1.3	0.47	0.09	0.08	0.02
8	0.03	0.37	0.14	16	5.1	20	9.0	0.96	0.40	0.06	0.10	0.02
9	0.03	0.38	0.12	15	4.7	15	13	1.1	0.38	0.04	0.09	0.02
10	0.03	0.20	0.13	13	3.9	15	8.0	1.4	0.33	0.04	0.08	0.03
11	0.02	0.13	0.18	12	3.6	14	6.7	1.1	0.26	0.04	0.11	0.02
12	0.04	0.09	0.17	11	3.3	13	6.5	1.0	0.26	0.04	0.05	0.03
13	0.04	0.06	0.14	11	3.3	12	5.6	0.79	0.31	0.04	0.04	0.03
14	0.00	0.07	0.15	11	3.4	12	4.9	0.82	0.28	0.04	0.06	0.03
15	0.00	0.11	0.19	9.5	3.5	11	4.3	0.82	0.28	0.04	0.05	0.02
16	0.00	0.06	0.21	8.9	5.6	11	4.0	0.91	0.27	0.04	0.04	0.03
17	0.00	0.08	0.21	9.2	7.6	11	3.7	1.2	0.30	0.04	0.05	0.04
18	0.00	0.08	0.36	8.7	8.6	10	3.7	4.0	0.34	0.07	0.06	0.03
19	0.04	0.13	0.29	8.6	228	10	4.1	5.5	0.36	0.07	0.07	0.03
20	0.26	0.33	17	7.8	138	11	4.2	3.1	0.35	0.08	0.07	0.05
21	0.21	5.4	182	7.0	45	115	3.9	2.3	0.29	0.09	0.06	0.04
22	0.28	1.6	989	7.0	25	48	4.3	2.0	0.28	0.07	0.06	0.05
23	0.51	0.49	177	6.4	20	25	3.8	1.9	0.22	0.08	0.07	0.06
24	0.59	0.42	47	5.9	16	43	3.6	1.7	0.21	0.05	0.06	0.11
25	0.64	0.25	27	6.0	14	28	3.6	1.4	0.25	0.06	0.05	0.13
26	0.63	0.17	31	5.7	265	24	3.5	1.2	0.22	0.06	0.06	0.11
27	0.59	0.15	21	5.2	155	19	3.1	1.0	0.21	0.06	0.07	0.11
28	0.61	0.24	15	5.2	56	16	2.5	1.0	0.21	0.05	0.06	0.13
29	0.65	0.17	89	5.0	---	14	2.4	1.1	0.21	0.05	0.05	0.11
30	1.1	0.13	86	5.5	---	12	2.3	1.5	0.17	0.04	0.05	0.09
31	0.72	---	31	11	---	10	---	1.3	---	0.04	0.05	---
Total	7.03	12.86	1,715.26	454.6	1,055.1	689	163.5	49.10	11.70	1.99	2.04	1.63
Mean	0.23	0.43	55.3	14.7	37.7	22.2	5.45	1.58	0.39	0.06	0.07	0.05
Max	1.1	5.4	989	70	265	115	13	5.5	1.1	0.13	0.11	0.13
Min	0.00	0.06	0.11	5.0	3.3	10	2.3	0.79	0.17	0.04	0.04	0.02
Ac-ft	14	26	3,400	902	2,090	1,370	324	97	23	3.9	4.0	3.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.08	0.38	2.06	21.5	23.7	23.0	5.86	2.00	0.49	0.06	0.08	0.03
Max	1.88	10.9	55.3	545	443	288	63.2	31.0	7.66	1.28	4.03	0.22
(WY)	(2005)	(1966)	(2011)	(1916)	(1980)	(1983)	(1998)	(1915)	(1983)	(1983)	(1983)	(1983)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1914)	(1916)	(1920)	(1920)	(1951)	(1951)	(1950)	(1949)	(1920)	(1913)	(1913)	(1913)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1913 - 2011	
Annual total	3,167.04		4,163.81			
Annual mean	8.68		11.4		6.61	
Highest annual mean					78.2	1993
Lowest annual mean					0.00	1951
Highest daily mean	989	Dec 22	989	Dec 22	4,960	Jan 27, 1916
Lowest daily mean	0.00	Jun 4	0.00	Oct 1	0.00	Dec 17, 1912
Annual seven-day minimum	0.00	Jun 4	0.00	Oct 1	0.00	Dec 17, 1912
Maximum peak flow			1,750	Dec 22	15,200	Feb 21, 1980
Maximum peak stage			5.94	Dec 22	14.39	Feb 21, 1980
Annual runoff (ac-ft)	6,280		8,260		4,790	
10 percent exceeds	6.2		19		3.1	
50 percent exceeds	0.15		0.42		0.00	
90 percent exceeds	0.00		0.04		0.00