Water-Data Report 2013

11063680 Devil Canyon Creek near San Bernardino, CA

Santa Ana River Basin

LOCATION.--Lat 34°12′30″, long 117°19′50″ referenced to North American Datum of 1927, San Bernardino County, CA, Hydrologic Unit 18070203, in Muscupiabe Grant, on left bank, 0.6 mi downstream from confluence of East and West Forks, and 7.5 mi northwest of San Bernardino.

DRAINAGE AREA.--5.49 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1911 to September 1912, October 1913 to September 1914, December 1919 to current year. Monthly figures only for January 1914, published in WSP 1315-B.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 2,080 ft above NGVD of 1929, from topographic map. Prior to December 1919, nonrecording gage at site 0.5 mi downstream at different datum. December 1919 to July 1969, at site 0.4 mi downstream at different datum. July 1969 to September 1972, present gage used as supplementary gage. Oct. 1, 1973, to Feb. 25, 1974, supplementary gage at site 0.5 mi downstream at different datum.

REMARKS.--Records good. No regulation upstream from station. City of San Bernardino diverts upstream from station at times, with diverted flows routed to recharge basins downstream from station. Natural flow affected by pumping along creek. Records given below are for creek only unless otherwise indicated. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--(1913-14 and since 1919) Maximum discharge, 3,720 ft^3/s, Jan. 25, 1969, gage height, 5.40 ft, site and datum then in use, on basis of slope-area measurement of peak flow. The peak discharges on Dec. 25, 2003, Oct. 20, 27, 2004, and Jan. 9, 2005, were the result of debris flows, due to intense rain storms occurring where a wildfire had burned over 90 percent of the drainage basin in October 2003. The peak discharges for these events are unknown. Maximum gage height, 15.61 ft, Oct. 27, 2004, from floodmarks left by debris flow; no flow at times in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and (or) maximum (*), from rating curve extended above 158 ft^3/s:

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 26	1000	*5.7	*5.35

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 11063680, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11063680.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.94	1.4	2.2	2.6	3.0	2.2	2.4	1.7	1.4	0.92	0.71	0.58
2	0.95	1.4	2.5	2.2	3.0	2.3	2.5	1.5	1.4	0.92	0.70	0.58
3	0.95	1.4	2.7	2.2	2.9	2.2	2.3	1.6	1.4	0.92	0.70	0.55
4	0.96	1.3	2.3	2.2	2.7	2.2	2.3	1.6	1.4	0.91	0.66	0.54
5	0.96	1.2	2.2	2.2	2.7	2.2	2.3	1.8	1.4	0.91	0.60	0.53
6	0.97	1.2	2.0	2.2	2.7	2.3	2.3	2.0	1.3	0.91	0.59	0.53
7	0.97	1.2	2.0	2.4	2.7	2.8	2.3	2.1	1.3	0.90	0.58	0.50
8	0.99	1.4	2.0	2.1	2.8	3.4	2.5	2.0	1.3	0.88	0.57	0.47
9	1.0	1.6	1.9	2.0	2.7	3.3	2.3	1.9	1.3	0.81	0.58	0.55
10	0.98	1.6	1.8	2.4	2.7	3.1	2.2	1.8	1.3	0.86	0.58	0.57
11	1.0	1.5	1.8	2.4	2.7	2.9	2.1	1.7	1.3	0.97	0.58	0.59
12	0.99	1.4	1.8	2.3	2.7	2.8	2.1	1.6	1.3	0.91	0.56	0.55
13	0.99	1.5	3.1	2.2	2.5	2.6	2.1	1.6	1.3	0.87	0.55	0.55
14	1.0	1.5	3.2	2.2	2.4	2.6	2.2	1.5	1.2	0.81	0.54	0.52
15	1.0	1.5	2.7	2.1	2.3	2.6	2.4	1.5	1.2	0.80	0.53	0.49
16	1.1	1.6	2.4	2.0	2.2	2.5	2.3	1.5	1.2	0.79	0.53	0.48
17	1.1	1.6	2.4	2.0	2.2	2.5	2.3	1.7	1.2	0.79	0.54	0.49
18	1.1	1.6	4.1	1.9	2.3	2.5	2.1	1.7	1.2	0.79	0.54	0.53
19	1.0	1.5	4.2	1.9	2.5	2.5	2.1	1.6	1.2	0.78	0.55	0.54
20	0.99	1.4	3.3	1.9	2.7	2.4	2.0	1.5	1.2	0.84	0.54	0.57
21	0.99	1.4	2.8	1.8	2.6	2.4	1.9	1.5	1.2	0.90	0.53	0.58
22	0.99	1.4	2.7	1.8	2.4	2.4	1.9	1.5	1.2	0.89	0.52	0.59
23	1.1	1.7	2.7	1.8	2.4	2.4	1.9	1.5	1.2	0.84	0.51	0.55
24	1.1	1.6	2.6	2.2	2.4	2.4	1.9	1.5	1.2	0.78	0.51	0.53
25	1.1	1.6	2.4	2.8	2.4	2.4	2.0	1.5	1.2	0.72	0.52	0.55
26	1.3	1.5	3.8	2.8	2.4	2.4	1.9	1.5	1.2	0.77	0.57	0.59
27	1.3	1.4	3.1	2.8	2.3	2.4	1.8	1.5	1.2	0.72	0.55	0.58
28	1.4	1.4	2.8	3.1	2.3	2.4	1.8	1.6	1.1	0.70	0.54	0.57
29	1.4	1.5	2.7	3.0	---	2.4	1.8	1.6	1.1	0.69	0.54	0.55
30	1.4	2.1	2.7	3.0	---	2.4	1.7	1.5	1.0	0.69	0.55	0.55
31	1.4	---	2.7	3.0	---	2.4	---	1.5	---	0.70	0.57	---
Total	33.42	44.4	81.6	71.5	71.6	78.3	63.7	50.6	37.4	25.69	17.64	16.35
Mean	1.08	1.48	2.63	2.31	2.56	2.53	2.12	1.63	1.25	0.83	0.57	0.55
Max	1.4	2.1	4.2	3.1	3.0	3.4	2.5	2.1	1.4	0.97	0.71	0.59
Min	0.94	1.2	1.8	1.8	2.2	2.2	1.7	1.5	1.0	0.69	0.51	0.47
Ac-ft	66	88	162	142	142	155	126	100	74	51	35	32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.57	1.10	2.27	4.30	6.90	7.23	4.54	2.41	1.20	0.67	0.46	0.43
Max	9.02	12.9	28.4	55.6	108	72.9	28.3	15.2	9.49	5.09	3.83	3.33
(WY)	(2005)	(1966)	(2011)	(2005)	(1980)	(1938)	(1978)	(1983)	(1998)	(1998)	(1993)	(1976)
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)	(1926)	(1926)	(1926)	(1926)	(1948)	(1951)	(1951)	(1951)	(1947)	(1926)	(1925)	(1924)

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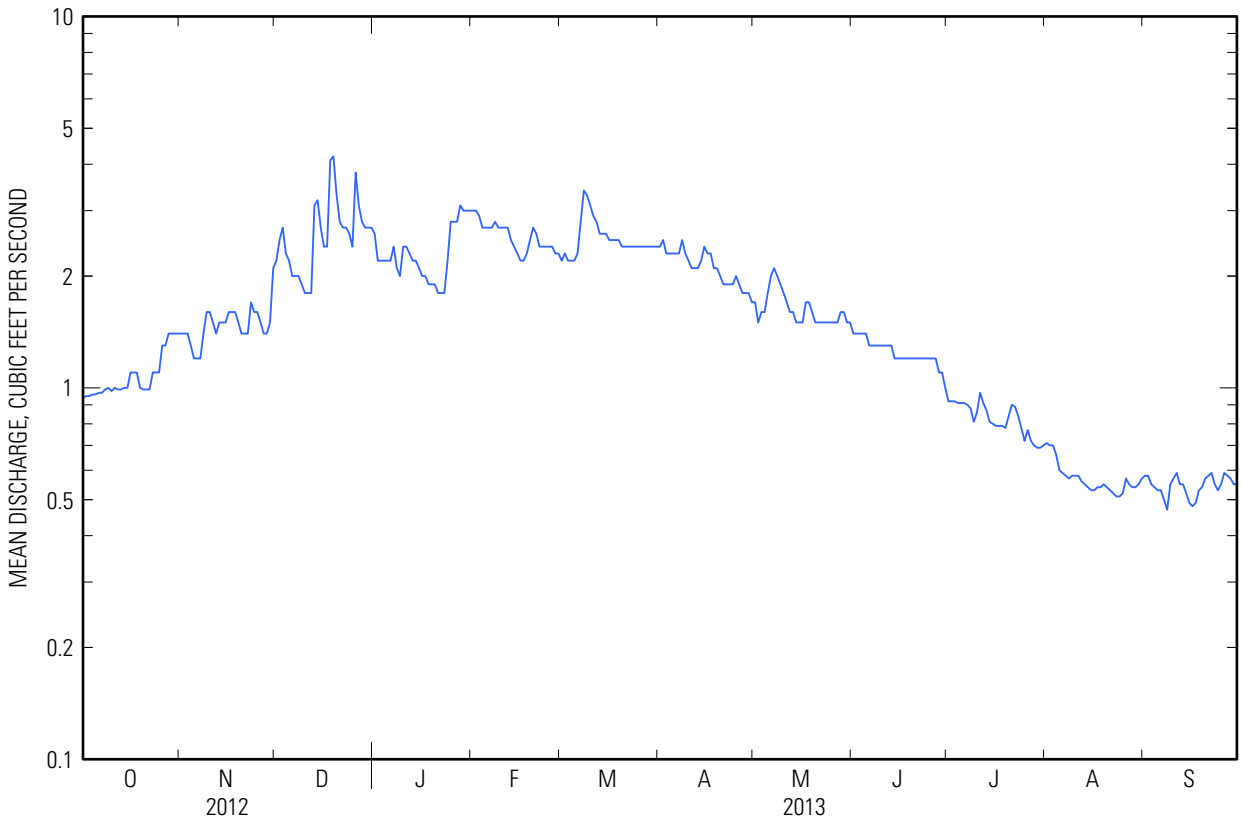
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1920 - 2013	
Annual total	754.38		592.20			
Annual mean	2.06		1.62		2.64	
Highest annual mean					16.1	1980
Lowest annual mean					0.00	1951
Highest daily mean	6.9	Mar 26	4.2	Dec 19	556	Jan 25, 1969
Lowest daily mean	0.73	Aug 10	0.47	Sep 8	0.00	Sep 23, 1921
Annual seven-day minimum	0.81	Aug 10	0.51	Sep 13	0.00	Sep 23, 1921
Maximum peak flow			5.7	Dec 26	3,720	Jan 25, 1969
Maximum peak stage			5.35	Dec 26	[a]15.61	Oct 27, 2004
Annual runoff (ac-ft)	1,500		1,170		1,910	
10 percent exceeds	3.7		2.7		5.6	
50 percent exceeds	1.8		1.5		0.30	
90 percent exceeds	0.93		0.55		0.00	

[a] The maximum peak stage is associated with a debris flow, which occurred on Oct. 27, 2004.