Water-Data Report 2012

11060400 Warm Creek near San Bernardino, CA

Santa Ana River Basin

LOCATION.--Lat 34°04′42″, long 117°17′58″ referenced to North American Datum of 1927, San Bernardino County, CA, Hydrologic Unit 18070203, in San Bernardino Grant, on left bank, 0.2 mi downstream from Interstate Highway 215 Bridge, and 2.0 mi southwest of San Bernardino.

DRAINAGE AREA.--11.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1964 to September 1972, October 1974 to current year.
CHEMICAL DATA: Water years 1999-2004.
SPECIFIC CONDUCTANCE: Water years 1999-2001.
WATER TEMPERATURE: Water years 1999-2001.
SEDIMENT DATA: Water years 1999-2004.

REVISED RECORDS.--WDR CA-83-1: Drainage area. WDR CA-92-1: 1978 (instantaneous maximum discharge), 1980-81 (instantaneous maximum discharge), 1983-86 (instantaneous maximum discharge).

GAGE.--Water-stage recorder and concrete-lined flood-control channel. Elevation of gage is 960 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1974, at site 0.1 mi upstream at different datum.

REMARKS.--Records good. Natural channel prior to October 1972; concrete-lined channel since October 1974. Possible diversion during high flows into Warm Creek from Lytle Creek flood detention basin 3.4 mi upstream. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft^3/s, Mar. 4, 1978, gage height, 4.88 ft, from rating curve extended above 420 ft^3/s, on basis of step-backwater analysis, maximum gage height, 6.33 ft, Nov. 22, 1965, site and datum then in use; no flow at times in some years.

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 11060400, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/11060400.2012.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	0.70	0.66	0.35	0.17	0.31	1.7	9.6	1.1	0.75	0.17	0.26	0.13
2	0.69	0.68	0.20	0.30	0.44	1.3	1.7	1.5	2.7	0.17	0.48	0.16
3	0.77	0.64	0.13	0.34	0.29	0.77	1.4	1.3	3.1	0.28	0.51	0.14
4	1.6	15	0.14	0.36	0.38	0.70	1.5	1.2	3.0	0.22	0.34	0.13
5	85	0.44	0.23	0.36	0.38	0.82	1.2	0.64	2.4	0.26	0.40	0.30
6	1.5	4.5	0.45	0.41	0.46	2.9	1.2	0.66	1.8	0.32	0.55	1.1
7	1.6	0.33	0.59	0.52	0.41	3.1	0.90	1.7	0.50	0.23	0.21	1.6
8	0.01	0.49	0.31	0.33	0.36	3.2	1.00	2.8	0.33	0.22	0.11	0.11
9	0.06	0.42	0.32	0.33	0.44	4.1	0.96	2.5	0.41	0.15	0.28	0.14
10	2.3	0.85	0.30	0.35	0.47	4.8	0.90	2.7	0.39	0.18	0.20	0.25
11	0.65	0.63	0.70	0.32	2.2	4.3	21	2.2	0.37	0.19	0.17	0.31
12	0.05	3.4	23	0.36	0.39	4.5	1.8	2.1	0.58	0.19	0.15	0.22
13	0.10	0.34	1.0	0.41	1.7	3.9	63	2.3	0.43	5.0	0.37	0.14
14	0.06	0.47	0.27	0.29	0.38	3.6	2.9	3.1	0.55	0.39	0.39	0.08
15	0.01	0.62	0.46	0.22	9.7	4.3	0.31	2.8	0.38	0.42	0.22	0.04
16	0.00	0.52	0.20	0.30	0.22	4.2	0.66	2.2	0.32	0.53	0.37	0.17
17	0.06	0.48	0.13	0.45	0.13	71	1.2	3.4	0.25	0.68	0.58	0.14
18	0.21	0.50	0.20	0.38	0.14	18	0.84	2.3	0.28	0.60	0.23	0.10
19	0.13	0.55	0.25	0.39	0.33	2.8	0.83	2.5	0.42	1.0	0.16	0.07
20	0.28	38	0.17	0.41	0.38	2.1	0.54	2.0	0.29	0.69	0.16	0.11
21	0.22	2.0	0.18	28	1.3	1.9	0.47	1.5	0.26	0.31	0.22	0.09
22	0.23	0.61	0.10	0.17	2.0	2.0	0.50	3.3	0.26	0.29	0.19	0.05
23	0.40	0.61	0.20	13	0.49	2.1	0.63	4.0	0.21	0.22	0.33	0.06
24	0.85	0.42	0.16	0.37	0.57	2.0	0.59	4.1	0.21	0.48	0.30	0.05
25	2.5	0.44	0.15	0.13	0.57	21	0.56	4.7	0.28	0.35	0.30	0.27
26	0.81	0.32	0.17	0.11	0.46	26	32	2.5	0.35	0.48	0.27	0.24
27	0.71	0.32	0.25	0.11	5.7	4.6	1.7	2.3	0.34	0.38	0.20	0.18
28	0.60	0.44	0.27	0.10	1.5	1.6	0.78	2.3	0.44	0.43	0.23	0.07
29	0.41	0.47	0.13	0.04	0.82	1.5	0.77	1.8	0.32	0.33	0.14	0.06
30	0.50	0.52	0.16	0.21	---	1.2	0.59	0.42	0.21	0.82	0.21	0.08
31	0.64	---	0.16	0.28	---	1.2	---	0.55	---	0.37	0.13	---
Total	103.65	75.67	31.33	49.52	32.92	207.19	152.03	68.47	22.13	16.35	8.66	6.59
Mean	3.34	2.52	1.01	1.60	1.14	6.68	5.07	2.21	0.74	0.53	0.28	0.22
Max	85	38	23	28	9.7	71	63	4.7	3.1	5.0	0.58	1.6
Min	0.00	0.32	0.10	0.04	0.13	0.70	0.31	0.42	0.21	0.15	0.11	0.04
Ac-ft	206	150	62	98	65	411	302	136	44	32	17	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1972, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	.11	2.77	4.73	4.68	4.19	1.15	1.82	.033	.000	.000	.003	.006
Max	.49	13.1	14.0	32.7	29.6	4.35	11.5	.24	.000	.003	.026	.050
(WY)	(1970)	(1966)	(1972)	(1969)	(1969)	(1970)	(1965)	(1969)	(1965)	(1968)	(1967)	(1965)
Min	.000	.000	.41	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	(1965)	(1969)	(1969)	(1972)	(1967)	(1972)	(1966)	(1965)	(1965)	(1965)	(1965)	(1966)

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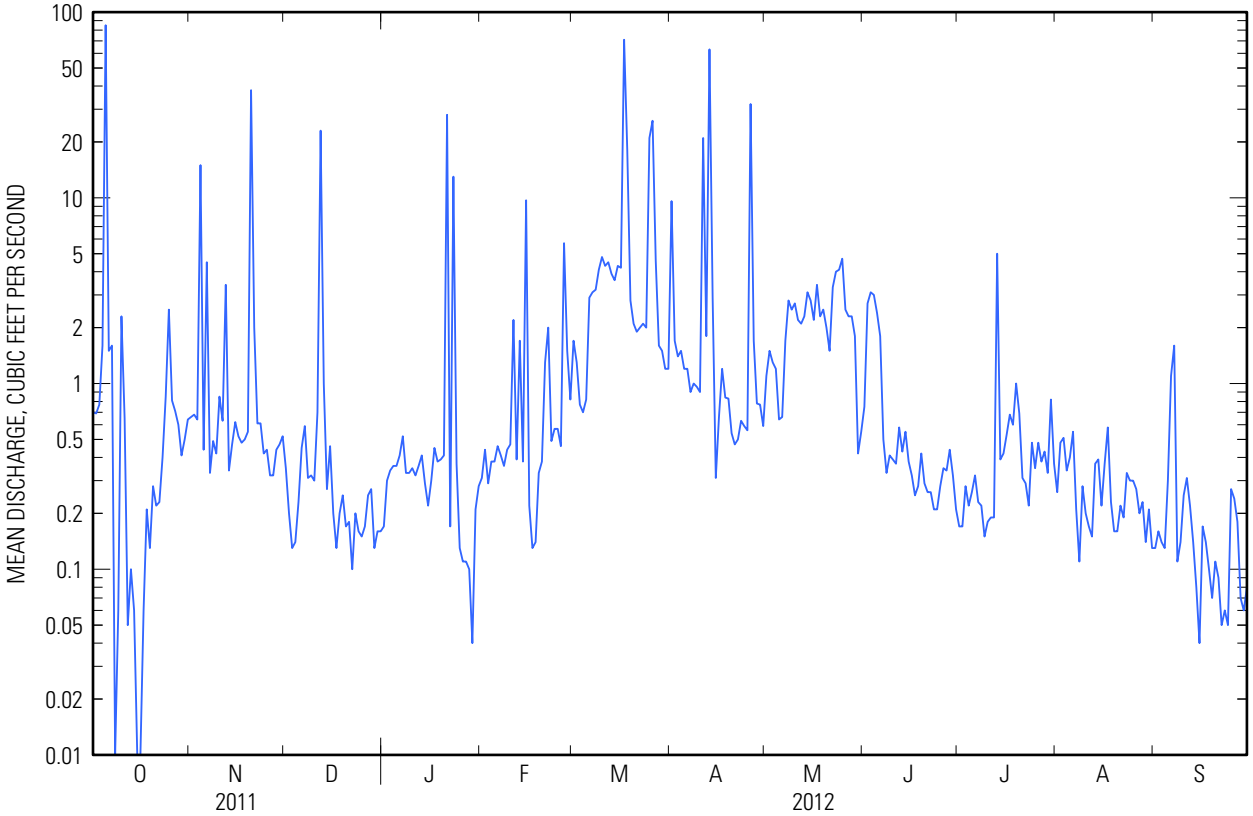
SUMMARY STATISTICS

	Water Years 1965 - 1972	
Annual mean	1.61	
Highest annual mean	5.16	1969
Lowest annual mean	.33	1968
Highest daily mean	488	Jan 25, 1969
Lowest daily mean	.00	Oct 1, 1964
Annual seven-day minimum	.00	Oct 1, 1964
Maximum peak flow	2,200	Jan 25, 1969
Maximum peak stage	6.33	Nov 22, 1965
Annual runoff (ac-ft)	1,170	
10 percent exceeds	.00	
50 percent exceeds	.00	
90 percent exceeds	.00	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.21	7.62	10.7	15.0	30.0	25.8	11.9	9.33	6.86	5.97	5.74	5.37
Max	32.4	33.1	48.3	41.2	418	376	44.2	86.7	43.6	34.5	50.6	30.3
(WY)	(1984)	(1986)	(2011)	(1993)	(1978)	(1978)	(1986)	(1980)	(1980)	(1980)	(1983)	(1983)
Min	0.12	0.09	0.40	0.07	0.72	1.33	0.17	0.32	0.07	0.06	0.06	0.02
(WY)	(1978)	(1996)	(1980)	(2003)	(2002)	(2008)	(1977)	(2002)	(1978)	(2002)	(1979)	(1979)

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1975 - 2012	
Annual total	1,382.18		774.51			
Annual mean	3.79		2.12		11.6	
Highest annual mean					70.5	1978
Lowest annual mean					1.23	2002
Highest daily mean	121	Feb 26	85	Oct 5	3,400	Mar 1, 1978
Lowest daily mean	0.00	Oct 16	0.00	Oct 16	0.00	Nov 29, 1974
Annual seven-day minimum	0.07	Oct 12	0.07	Oct 12	0.00	Dec 7, 1974
Maximum peak flow			778	Oct 5	8,500	Mar 4, 1978
Maximum peak stage			2.26	Oct 5	4.88	Mar 4, 1978
Annual runoff (ac-ft)	2,740		1,540		8,420	
10 percent exceeds	7.4		3.1		25	
50 percent exceeds	0.86		0.43		2.4	
90 percent exceeds	0.31		0.14		0.15	

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