Water-Data Report 2013

11070270 Perris Valley Storm Drain at Nuevo Road, near Perris, CA

Santa Ana River Basin

LOCATION.--Lat 33°48′04″, long 117°12′19″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.21, T.4 S., R.3 W., Riverside County, CA, Hydrologic Unit 18070202, on right bank, 1.9 mi northeast of Perris, and 2.0 mi upstream from San Jacinto River.

DRAINAGE AREA.--93.3 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1969 to September 1975, October 1989 to September 1997, and October 1998 to current year.
PRECIPITATION DATA: Water years 1970-75, 1990-1997.

REVISED RECORDS.--WDR CA-92-1: 1991 (instantaneous maximum discharge).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 1,410 ft above NGVD of 1929, from topographic map. October 1998 to September 2002, at same site at datum 10 ft lower.

REMARKS.--Records fair. Some regulation by percolation basins and some pumping for irrigation upstream from station. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,580 ft^3/s, Dec. 22, 2010, gage height, 17.93 ft based on basis of slope area measurement of peak flow; no flow for many days in most years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and (or) maximum (*), from rating as explained above:

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 13	1130	*1,220	*14.34

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 11070270, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11070270.2013.pdf

11070270 Perris Valley Storm Drain at Nuevo Road, near Perris, CA—Continued

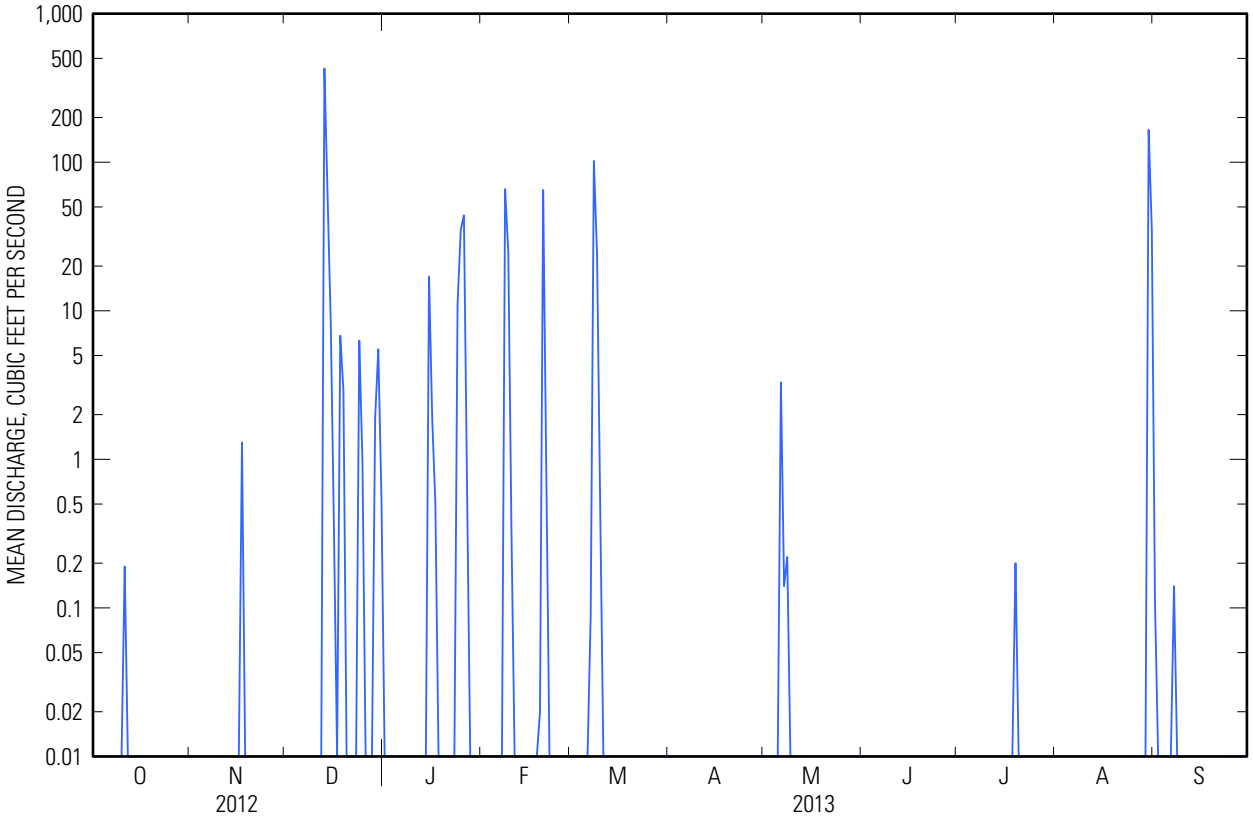
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.14	0.00	0.00	0.00	0.14
8	0.00	0.00	0.00	0.00	66	102	0.00	0.22	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	25	24	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.33	0.47	0.01	0.00	0.00	0.00	0.00	0.00
11	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	428	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	8.3	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.35	1.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	1.3	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	6.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	2.9	0.00	0.02	0.00	0.00	0.00	0.00	0.20	0.00	0.00
20	0.00	0.00	0.00	0.00	65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	6.3	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.95	35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	1.9	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	5.5	0.00	---	0.00	0.00	0.00	0.00	0.00	165	0.00
31	0.00	---	0.53	0.00	---	0.00	---	0.00	---	0.00	35	---
Total	0.19	1.30	520.53	110.03	157.14	126.56	0.01	3.66	0.00	0.20	200.00	0.25
Mean	0.01	0.04	16.8	3.55	5.61	4.08	0.00	0.12	0.00	0.01	6.45	0.01
Max	0.19	1.3	428	44	66	102	0.01	3.3	0.00	0.20	165	0.14
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
Ac-ft	0.4	2.6	1,030	218	312	251	0.02	7.3	0.00	0.4	397	0.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.87	2.08	10.6	20.1	22.5	10.0	2.08	0.67	0.13	0.14	0.64	0.18
Max	69.4	10.4	133	167	158	70.7	11.9	9.89	1.73	1.85	10.8	4.21
(WY)	(2005)	(2008)	(2011)	(1993)	(2005)	(1991)	(2003)	(2008)	(1995)	(1999)	(2012)	(1997)
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)	(1970)	(1972)	(1970)	(1975)	(1971)	(1972)	(1970)	(1970)	(1970)	(1970)	(1970)	(1970)

11070270 Perris Valley Storm Drain at Nuevo Road, near Perris, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1970 - 2013	
Annual total	1,309.56		1,119.87			
Annual mean	3.58		3.07		5.93	
Highest annual mean					32.1	2005
Lowest annual mean					0.24	2007
Highest daily mean	428	Dec 13	428	Dec 13	1,740	Dec 22, 2010
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1969
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1969
Maximum peak flow			1,220	Dec 13	4,580	Dec 22, 2010
Maximum peak stage			14.34	Dec 13	17.93	Dec 22, 2010
Annual runoff (ac-ft)	2,600		2,220		4,300	
10 percent exceeds	0.31		0.10		0.53	
50 percent exceeds	0.00		0.00		0.00	
90 percent exceeds	0.00		0.00		0.00