

**11057500 San Timoteo Creek near Loma Linda, CA**

Santa Ana River Basin

LOCATION.--Lat 34°03'41", long 117°16'00" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.26, T.1 S., R.4 W., San Bernardino County, CA, Hydrologic Unit 18070203, on left bank, 1,500 ft upstream from Redlands Boulevard Bridge, and 0.6 mi northwest of Loma Linda.

DRAINAGE AREA.--125 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1954 to September 1965, February 1968 to September 1975, April 1979 to current year. Discharge measurements only, October 1997 to September 1998.

WATER TEMPERATURE: Water years 1979-82, 1992-94.

SEDIMENT DATA: Water years 1979-82, 1992-94.

GAGE.--Water-stage recorder and concrete-lined flood-control channel. Elevation of gage is 1,040 ft above NGVD of 1929, from topographic map. Prior to April 1979, water-stage recorder at site 0.45 mi downstream at different datum. April 1979 to Dec. 7, 1997, at site 0.25 mi downstream at different datum.

REMARKS.--Records poor. Since Dec. 7, 1997, channel is a trapezoidal concrete floodway. No regulation upstream from station. Natural flow affected by pumping and return flow from irrigated areas. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft<sup>3</sup>/s, Feb. 25, 1969, gage height, 8.2 ft, from floodmark, from rating curve extended above 2,100 ft<sup>3</sup>/s, on basis of slope-conveyance study of peak flow, at site and datum then in use; no flow for many days most years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft<sup>3</sup>/s and (or) maximum (\*), from rating curve extended above 194 ft<sup>3</sup>/s, on basis of step-backwater analysis:

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 19	2330	758	2.57
Dec 20	2145	1,520	3.35
Dec 21	2130	341	2.01
Dec 22	0715	*4,150	*5.16
Jan 30	1930	243	1.84
Feb 19	0345	292	1.93
Feb 20	0245	177	1.70
Feb 26	0700	346	2.02
Mar 21	0515	272	1.90

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.1	1.5	5.1	6.8	7.4	2.3	5.5	0.56	1.6	0.41	1.5	0.37
2	1.5	1.6	4.0	10	3.2	2.2	6.3	2.0	1.5	0.33	0.70	0.48
3	2.2	1.4	4.0	15	2.9	1.0	9.1	2.6	2.1	0.44	0.59	0.39
4	2.2	1.1	5.3	7.7	3.0	0.69	11	1.5	1.2	0.71	0.66	0.78
5	1.5	1.3	14	6.7	3.1	0.23	8.6	0.46	0.93	0.59	0.67	1.1
6	3.9	0.69	14	6.5	3.4	1.2	11	0.36	1.4	e1.1	1.0	1.1
7	0.48	2.0	5.7	9.1	4.4	7.0	6.6	0.46	2.3	e0.98	0.65	0.75
8	0.60	8.1	5.1	14	3.4	2.0	18	1.5	2.8	1.00	0.56	0.62
9	0.40	2.6	4.4	9.6	2.4	11	43	3.8	2.7	0.51	0.49	0.78
10	0.14	2.5	5.5	10	2.1	7.6	14	2.1	1.8	0.54	0.30	0.79
11	0.17	2.1	4.8	8.6	3.8	5.8	9.5	1.2	1.1	0.39	0.33	0.95
12	0.56	3.1	5.6	11	4.2	9.3	5.6	1.5	2.2	0.28	0.61	1.0
13	0.71	4.7	7.2	12	4.2	16	4.4	0.84	2.4	0.43	0.49	0.84
14	0.78	5.8	6.7	11	4.0	9.9	3.3	1.3	2.2	0.96	0.69	0.69
15	0.69	3.4	7.4	8.4	4.8	11	2.4	2.4	1.7	0.60	0.69	0.44
16	0.79	3.6	8.0	10	22	5.9	1.9	4.0	0.77	0.43	0.29	0.52
17	0.69	3.9	5.9	9.0	11	9.7	1.9	3.2	0.53	0.24	0.26	0.76
18	1.3	4.5	12	9.4	21	5.2	4.3	12	0.63	0.43	0.60	0.71
19	6.7	5.6	105	8.4	105	5.7	5.6	1.5	0.51	0.35	0.59	0.81
20	2.6	23	516	6.4	63	26	5.6	0.54	0.51	0.23	0.45	0.96
21	3.4	46	442	4.7	20	119	6.4	0.63	0.59	0.17	0.47	0.94
22	2.1	13	932	5.9	13	32	5.1	0.75	0.27	0.21	0.89	0.95
23	1.5	4.8	46	7.3	10	29	5.1	1.8	0.42	0.20	1.0	0.79
24	1.6	6.1	28	5.2	9.9	38	5.8	1.3	0.60	0.17	0.59	0.69
25	6.4	5.2	28	4.6	6.9	25	3.8	0.96	0.34	0.30	0.83	0.52
26	2.5	3.8	32	5.1	132	19	3.4	0.79	0.61	0.20	0.46	0.28
27	1.9	4.9	14	4.2	23	19	4.1	0.72	0.46	0.17	0.42	0.33
28	1.6	10	11	4.3	11	16	1.5	0.70	0.37	0.24	0.34	0.32
29	0.86	5.1	56	7.4	---	13	1.3	1.0	0.43	0.33	0.25	0.68
30	2.1	4.6	20	30	---	8.5	0.83	1.4	0.97	0.40	0.20	0.67
31	1.4	---	7.5	48	---	7.4	---	1.6	---	4.7	0.24	---
<b>Total</b>	55.37	185.99	2,362.2	316.3	504.1	465.62	214.93	55.47	35.94	18.04	17.81	21.01
<b>Mean</b>	1.79	6.20	76.2	10.2	18.0	15.0	7.16	1.79	1.20	0.58	0.57	0.70
<b>Max</b>	6.7	46	932	48	132	119	43	12	2.8	4.7	1.5	1.1
<b>Min</b>	0.14	0.69	4.0	4.2	2.1	0.23	0.83	0.36	0.27	0.17	0.20	0.28
<b>Ac-ft</b>	110	369	4,690	627	1,000	924	426	110	71	36	35	42

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1.82	2.06	5.39	12.9	14.4	7.66	2.85	1.45	0.98	0.70	0.66	0.80
<b>Max</b>	39.8	11.6	76.2	124	186	53.7	23.1	8.93	5.63	3.65	2.78	3.03
<b>(WY)</b>	(2005)	(1983)	(2011)	(2005)	(1969)	(1991)	(2006)	(2010)	(2005)	(1968)	(2006)	(1965)
<b>Min</b>	0.00	0.00	0.16	0.08	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>(WY)</b>	(1996)	(1996)	(1996)	(1972)	(1968)	(1997)	(1979)	(1996)	(1996)	(1995)	(1995)	(1995)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1955 - 2011	
<b>Annual total</b>	7,156.66		4,252.78			
<b>Annual mean</b>	19.6		11.7		4.29	
<b>Highest annual mean</b>					25.3	2005
<b>Lowest annual mean</b>					0.45	2002
<b>Highest daily mean</b>	932	Dec 22	932	Dec 22	3,500	Feb 25, 1969
<b>Lowest daily mean</b>	0.02	Sep 22	0.14	Oct 10	0.00	Feb 4, 1968
<b>Annual seven-day minimum</b>	0.18	Sep 17	0.20	Jul 21	0.00	Apr 15, 1969
<b>Maximum peak flow</b>			4,150	Dec 22	15,000	Feb 25, 1969
<b>Maximum peak stage</b>			5.16	Dec 22	<sup>a</sup> 8.20	Feb 25, 1969
<b>Annual runoff (ac-ft)</b>	14,200		8,440		3,110	
<b>10 percent exceeds</b>	21		14		4.1	
<b>50 percent exceeds</b>	4.6		2.2		0.68	
<b>90 percent exceeds</b>	0.45		0.40		0.00	

<sup>a</sup> From floodmark.

