

Water-Data Report 2011

**11073495 Cucamonga Creek near Mira Loma, CA**

Santa Ana River Basin

LOCATION.--Lat 33°58'58", long 117°35'55" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.22, T.2 S., R.7 W., San Bernardino County, CA, Hydrologic Unit 18070203, on right bank, 300 ft upstream from Merrill Avenue Bridge, and 4.6 mi west of Mira Loma.

DRAINAGE AREA.--75.8 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1968 to July 1977, December 1978 to current year.

CHEMICAL DATA: Water years 1999-2000.

SPECIFIC CONDUCTANCE: Water years 1999-2000.

WATER TEMPERATURE: Water years 1999-2000.

SEDIMENT DATA: Water years 1999-2000.

GAGE.--Water-stage recorder, crest-stage gage, and concrete-lined flood-control channel. Elevation of gage is 660 ft above NGVD of 1929, from topographic map. Prior to July 1977 at site 100 ft downstream at different datum.

REMARKS.--Records fair above 100 ft<sup>3</sup>/s and poor below. Channel is a trapezoidal concrete floodway; records for low and medium flows prior to July 31, 1977, are not equivalent (channel concrete lined since July 31, 1977). Inland Empire Utilities Agency Tertiary Plant No. 1 began discharging effluent 3.3 mi upstream from station on May 8, 1985. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft<sup>3</sup>/s, Oct. 20, 2004, gage height, 6.58 ft, from rating curve extended above 617 ft<sup>3</sup>/s on basis of step-backwater computations; maximum gage height, 7.85 ft, Feb. 27, 1983. Prior to operation of Plant No. 1, no flow for most of some years. Minimum daily since 1985, 1.3 ft<sup>3</sup>/s, May 28, 2010.

## Water-Data Report 2011

**11073495 Cucamonga Creek near Mira Loma, CA—Continued**

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

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	13	29	34	44	23	32	42	19	12	25	21	7.6
<b>2</b>	14	21	36	94	48	29	36	7.5	18	38	8.0	7.6
<b>3</b>	19	10	41	116	33	37	41	5.5	19	28	13	10
<b>4</b>	14	12	42	46	12	28	40	12	25	32	18	13
<b>5</b>	20	12	91	e48	17	31	36	5.8	26	37	31	16
<b>6</b>	155	23	176	51	42	38	33	5.4	28	15	48	14
<b>7</b>	24	19	42	54	21	64	26	10	20	14	48	8.6
<b>8</b>	14	31	42	58	14	77	25	17	18	22	48	5.5
<b>9</b>	17	15	42	63	19	67	26	12	20	31	48	6.9
<b>10</b>	17	14	44	61	23	54	25	14	34	31	46	14
<b>11</b>	12	18	42	66	21	42	24	13	26	39	47	22
<b>12</b>	11	18	47	64	25	45	16	12	33	33	48	21
<b>13</b>	6.6	24	41	62	35	53	16	8.8	26	20	48	12
<b>14</b>	17	25	29	61	33	41	15	13	20	13	48	17
<b>15</b>	21	20	36	58	34	42	7.9	33	20	15	48	15
<b>16</b>	28	26	67	63	171	43	8.6	17	18	15	47	15
<b>17</b>	31	23	118	55	107	44	12	40	29	29	45	16
<b>18</b>	38	22	244	60	206	48	8.7	66	39	18	32	27
<b>19</b>	45	46	1,930	54	203	69	12	30	41	8.2	15	24
<b>20</b>	40	338	2,040	42	92	618	12	19	31	11	17	21
<b>21</b>	43	164	1,500	30	61	435	17	18	29	9.2	18	25
<b>22</b>	43	46	2,500	31	60	85	17	21	36	11	14	18
<b>23</b>	48	48	282	37	49	146	19	17	24	16	7.3	25
<b>24</b>	45	47	98	30	54	62	32	11	29	14	6.1	30
<b>25</b>	70	48	88	36	250	209	19	17	27	21	9.6	42
<b>26</b>	50	48	115	37	884	50	20	21	30	12	7.0	35
<b>27</b>	42	47	48	19	44	57	12	24	19	11	6.4	29
<b>28</b>	34	51	46	17	34	55	11	19	27	14	8.2	23
<b>29</b>	29	39	188	14	---	59	10	18	17	12	7.8	27
<b>30</b>	53	34	52	86	---	57	12	19	21	21	7.5	31
<b>31</b>	41	---	50	31	---	47	---	19	---	70	12	---
<b>Total</b>	1,054.6	1,318	10,151	1,588	2,615	2,764	631.2	564.0	762	685.4	827.9	578.2
<b>Mean</b>	34.0	43.9	327	51.2	93.4	89.2	21.0	18.2	25.4	22.1	26.7	19.3
<b>Max</b>	155	338	2,500	116	884	618	42	66	41	70	48	42
<b>Min</b>	6.6	10	29	14	12	28	7.9	5.4	12	8.2	6.1	5.5
<b>Ac-ft</b>	2,090	2,610	20,130	3,150	5,190	5,480	1,250	1,120	1,510	1,360	1,640	1,150

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1977, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	.021	1.15	1.55	18.2	4.65	1.91	1.35	.065	.001	.000	.000	.11
<b>Max</b>	.19	6.07	7.91	149	30.7	7.94	13.1	.54	.007	.000	.000	1.03
(WY)	(1972)	(1971)	(1972)	(1969)	(1969)	(1969)	(1969)	(1977)	(1969)	(1968)	(1968)	(1976)
<b>Min</b>	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	(1969)	(1969)	(1970)	(1975)	(1972)	(1972)	(1968)	(1968)	(1968)	(1968)	(1968)	(1968)

**11073495 Cucamonga Creek near Mira Loma, CA—Continued****SUMMARY STATISTICS**

Water Years 1968 - 1977		
<b>Annual mean</b>	2.73	
<b>Highest annual mean</b>	16.8	1969
<b>Lowest annual mean</b>	.16	1976
<b>Highest daily mean</b>	2,600	Jan 25, 1969
<b>Lowest daily mean</b>	.00	Feb 1, 1968
<b>Annual seven-day minimum</b>	.00	Feb 1, 1968
<b>Maximum peak flow</b>	9,100	Jan 25, 1969
<b>Maximum peak stage</b>	7.08	Jan 25, 1969
<b>Annual runoff (ac-ft)</b>	1,980	
<b>10 percent exceeds</b>	.10	
<b>50 percent exceeds</b>	.00	
<b>90 percent exceeds</b>	.00	

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1984, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3.49	11.3	7.69	34.1	65.0	46.3	12.1	3.43	.48	.37	1.47	1.08
<b>Max</b>	11.1	27.9	24.7	149	216	205	63.4	19.8	2.30	1.22	6.99	3.45
(WY)	(1984)	(1983)	(1984)	(1983)	(1980)	(1983)	(1983)	(1983)	(1983)	(1983)	(1983)	(1983)
<b>Min</b>	.091	.002	.006	1.67	1.29	2.44	.056	.063	.008	.019	.009	.011
(WY)	(1981)	(1980)	(1980)	(1984)	(1984)	(1984)	(1981)	(1979)	(1979)	(1981)	(1979)	(1979)

**SUMMARY STATISTICS**

Water Years 1979 - 1984		
<b>Annual mean</b>	17.5	
<b>Highest annual mean</b>	53.4	1983
<b>Lowest annual mean</b>	1.51	1981
<b>Highest daily mean</b>	2,530	Mar 1, 1983
<b>Lowest daily mean</b>	.00	Feb 6, 1979
<b>Annual seven-day minimum</b>	.00	Feb 6, 1979
<b>Maximum peak flow</b>	16,100	Feb 27, 1983
<b>Maximum peak stage</b>	7.85	Feb 27, 1983
<b>Annual runoff (ac-ft)</b>	12,700	
<b>10 percent exceeds</b>	10	
<b>50 percent exceeds</b>	.13	
<b>90 percent exceeds</b>	.01	

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	45.5	44.7	67.0	93.5	111	67.9	48.2	37.3	34.8	32.6	32.4	35.8
<b>Max</b>	223	102	327	442	350	198	114	69.4	57.1	53.4	51.8	52.0
(WY)	(2005)	(2003)	(2011)	(2005)	(2005)	(1995)	(2006)	(2003)	(1992)	(2004)	(1992)	(1986)
<b>Min</b>	20.4	23.4	21.0	26.1	34.9	25.3	20.5	11.2	7.23	5.41	13.6	16.4
(WY)	(1987)	(1989)	(1987)	(1989)	(1989)	(1988)	(1987)	(2010)	(2010)	(2010)	(2010)	(1988)

**11073495 Cucamonga Creek near Mira Loma, CA—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>		<b>Water Years 1986 - 2011</b>	
<b>Annual total</b>	27,133.5		23,539.3		
<b>Annual mean</b>	74.3		64.5		53.9
<b>Highest annual mean</b>				137	2005
<b>Lowest annual mean</b>				26.6	1987
<b>Highest daily mean</b>	2,500	Dec 22	2,500	Dec 22	5,200 Jan 9, 2005
<b>Lowest daily mean</b>	1.3	May 28	5.4	May 6	1.3 May 28, 2010
<b>Annual seven-day minimum</b>	3.5	Jul 24	7.5	Aug 23	3.5 Jul 24, 2010
<b>Maximum peak flow</b>			11,700	Dec 22	17,300 Oct 20, 2004
<b>Maximum peak stage</b>			5.63	Dec 22	6.58 Oct 20, 2004
<b>Annual runoff (ac-ft)</b>	53,820		46,690		39,060
<b>10 percent exceeds</b>	81		67		62
<b>50 percent exceeds</b>	21		29		36
<b>90 percent exceeds</b>	5.6		12		20

