

11073360 Chino Creek at Schaefer Avenue, near Chino, CA

Santa Ana River Basin

LOCATION.--Lat 34°00'14", long 117°43'34" referenced to North American Datum of 1927, San Bernardino County, CA, Hydrologic Unit 18070203, in Santa Ana del Chino Grant, on right bank, 300 ft downstream from old Schaefer Avenue Bridge, 0.8 mi downstream from San Antonio Creek, and 1.5 mi southwest of Chino.

DRAINAGE AREA.--48.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1969 to current year.

CHEMICAL DATA: Water year 1998.

SEDIMENT DATA: Water year 1998.

REVISED RECORDS.--WDR CA-84-1: 1983 (instantaneous maximum discharge). WDR CA-95-1: 1992, 1993.

GAGE.--Water-stage recorder and concrete-lined flood-control channel. Concrete dikes formed low-water control from October 1975 to Apr. 16, 1991. Elevation of gage is 685 ft above NGVD of 1929, from topographic map.

REMARKS.--Records rated fair. Since 1997, due to construction in area of gage, Schaefer Avenue no longer extends to the Chino Creek crossing. The Schaefer Avenue Bridge, however, remains. Flow mostly regulated by San Antonio Flood-Control Reservoir, capacity, 7,700 acre-ft. Natural streamflow affected by extensive ground-water withdrawals, diversions for power, domestic use, irrigation, and return flow from irrigated areas. Releases of imported water are made to the basin by the California Water Project at times in some years, via San Antonio Creek from Rialto Pipeline below San Antonio Dam, at a site approximately 11 mi upstream. During the current year, no California Water Project releases were made. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s, Feb. 27, 1983, gage height, 10.32 ft, from rating curve extended above 560 ft³/s, on basis of slope-conveyance study; no flow May 21, June 30, July 1, Oct. 30, Nov. 3, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 9.23 ft, present datum, discharge, 9,200 ft³/s, on basis of contracted-opening measurement at site 6.1 mi downstream.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.97	1.00	1.2	1.3	0.97	2.5	1.1	0.83	0.61	0.63	0.70	0.74
2	0.91	0.78	1.1	1.4	0.99	2.4	1.2	0.81	0.65	0.69	0.71	0.80
3	0.83	0.70	1.3	1.4	1.00	2.6	0.99	0.88	0.90	0.77	0.77	0.69
4	1.1	5.8	1.2	1.3	1.1	11	0.93	0.96	0.57	0.71	0.71	0.67
5	0.98	0.68	1.2	1.3	62	4.1	0.89	0.92	0.63	0.71	0.75	0.67
6	0.71	0.72	1.2	1.2	180	2.4	0.95	0.96	0.57	0.72	0.69	0.68
7	0.77	0.59	3.4	1.1	147	2.0	1.0	0.93	0.58	0.85	0.71	0.69
8	0.83	0.64	1.3	1.2	26	2.0	1.00	0.92	0.61	0.75	0.71	0.68
9	0.71	0.73	1.2	1.2	237	2.0	0.97	0.87	0.54	0.72	0.71	0.71
10	0.85	0.69	1.2	1.1	6.1	2.1	1.6	0.83	0.73	0.69	0.71	0.73
11	0.63	0.82	1.1	1.1	3.8	1.9	0.91	0.81	0.53	0.78	0.72	0.71
12	0.60	0.67	1.2	1.2	3.4	1.7	1.0	1.0	0.52	0.72	0.75	0.73
13	0.61	0.68	1.2	1.2	63	1.8	1.0	0.61	0.53	0.75	0.72	0.75
14	0.66	0.69	1.1	1.2	5.2	1.7	0.97	0.62	0.51	0.75	0.76	0.76
15	0.81	0.66	373	1.2	3.1	1.6	0.78	0.74	0.55	0.89	0.61	0.76
16	0.73	0.81	3.0	1.1	167	1.6	0.80	0.63	0.65	0.74	0.60	0.77
17	0.67	0.68	145	1.2	102	1.6	0.90	0.66	0.65	0.80	0.62	0.78
18	0.66	0.74	8.8	1.1	6.0	1.7	0.95	0.67	0.69	0.72	0.61	0.80
19	1.3	1.0	1.5	1.1	4.2	1.7	0.98	0.68	0.71	0.69	0.62	0.77
20	0.69	1.0	1.3	1.4	3.7	1.6	1.1	0.68	0.67	0.78	0.58	0.79
21	0.82	0.99	1.2	1.4	3.4	1.8	1.1	0.68	0.68	0.78	0.68	0.86
22	0.77	0.97	3.8	1.3	3.1	20	1.1	0.65	0.67	0.82	0.67	0.78
23	0.69	0.93	1.3	12	2.8	1.5	0.95	0.67	0.63	1.0	0.68	0.82
24	0.70	0.97	1.2	2.3	2.6	1.5	0.93	0.64	0.66	0.95	0.72	0.71
25	0.74	1.0	60	1.1	2.5	1.6	1.00	0.65	0.67	0.94	0.72	0.70
26	0.71	280	2.2	4.9	2.5	2.9	1.0	0.68	0.79	1.1	0.69	0.70
27	0.73	6.6	1.5	1.1	2.4	6.6	1.0	0.71	0.80	0.76	0.80	0.69
28	0.75	1.6	1.4	1.1	2.5	6.1	0.96	0.68	0.79	0.68	0.80	0.83
29	0.85	1.4	1.3	1.1	---	6.0	0.82	0.64	0.73	0.67	0.81	0.74
30	0.73	1.4	2.5	1.2	---	3.4	0.86	0.64	0.67	0.68	0.80	0.94
31	0.80	---	1.4	1.1	---	1.2	---	0.66	---	0.69	0.85	---
Total	24.31	315.94	629.3	52.9	1,045.36	102.6	29.74	23.31	19.49	23.93	21.98	22.45
Mean	0.78	10.5	20.3	1.71	37.3	3.31	0.99	0.75	0.65	0.77	0.71	0.75
Max	1.3	280	373	12	237	20	1.6	1.0	0.90	1.1	0.85	0.94
Min	0.60	0.59	1.1	1.1	0.97	1.2	0.78	0.61	0.51	0.63	0.58	0.67
Ac-ft	48	627	1,250	105	2,070	204	59	46	39	47	44	45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.0	15.8	24.4	35.2	38.8	26.3	9.56	12.1	16.3	16.7	14.7	13.2
Max	126	113	189	221	193	257	68.6	104	184	176	191	198
(WY)	(1979)	(1976)	(1976)	(2005)	(1980)	(1978)	(1974)	(1997)	(1976)	(1974)	(1974)	(1997)
Min	0.06	0.23	0.53	0.55	0.33	0.30	0.14	0.22	0.06	0.07	0.14	0.13
(WY)	(1978)	(1978)	(1970)	(1972)	(1972)	(1972)	(1977)	(1973)	(1977)	(1977)	(1976)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1970 - 2009	
Annual total	3,141.63		2,311.31			
Annual mean	8.58		6.33		19.9	
Highest annual mean					92.4	1974
Lowest annual mean					2.81	2007
Highest daily mean	373	Dec 15	373	Dec 15	2,060	Mar 1, 1978
Lowest daily mean	0.59	Nov 7	0.51	Jun 14	0.00	May 21, 1977
Annual seven-day minimum	0.67	Oct 11	0.56	Jun 9	0.02	Oct 28, 1977
Maximum peak flow			2,150 Dec 15		12,700	Feb 27, 1983
Maximum peak stage			6.38 Dec 15		10.32	Feb 27, 1983
Annual runoff (ac-ft)	6,230		4,580		14,440	
10 percent exceeds	3.9		3.0		66	
50 percent exceeds	1.5		0.86		1.3	
90 percent exceeds	0.82		0.66		0.40	

