

Water-Data Report 2009

11073300 San Antonio Creek at Riverside Drive, near Chino, CA

Santa Ana River Basin

LOCATION.--Lat 34°01'07", long 117°43'47" referenced to North American Datum of 1927, San Bernardino County, CA, Hydrologic Unit 18070203, in Santa Ana del Chino Grant, on right bank, at south end of Riverside Drive Bridge, 0.4 mi upstream from confluence with Chino Creek, 2.4 mi northwest of Chino, and 10.2 mi downstream from San Antonio Dam.

DRAINAGE AREA.--36.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder and concrete-lined flood-control channel. Elevation of gage is 735 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Flow mostly regulated by San Antonio Flood-Control Reservoir, capacity, 7,700 acre-ft. Natural streamflow affected by ground-water withdrawals, diversions for power, domestic use, irrigation, and return flow from irrigated areas. Flow at gage is primarily urban runoff, except when releases are made from San Antonio Dam. Releases of imported water are made to San Antonio Creek by the California Water Project at times in some years, from Rialto Pipeline below San Antonio Dam, at a site 10 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, 3,420 ft³/s, Oct. 20, 2004, gage height, 5.43 ft, from rating curve extended above 576 ft³/s, on basis of step-backwater analysis; no flow at times in most years.

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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	0.24	0.43	0.23	0.05	0.14	0.10	0.12	0.12	0.13	0.13	0.09	0.17
2	0.26	0.32	0.21	0.08	0.12	0.11	0.16	0.14	0.11	0.11	0.15	0.21
3	0.21	0.29	0.29	0.10	0.11	0.08	0.08	0.20	0.36	0.16	0.17	0.11
4	0.26	7.3	0.24	0.07	0.05	4.1	0.10	0.17	0.19	0.10	0.15	0.04
5	0.37	0.26	0.18	0.09	46	0.25	0.04	0.11	0.24	0.06	0.13	0.05
6	0.23	0.45	0.26	0.03	133	0.02	0.06	0.10	0.22	0.07	0.11	0.03
7	0.23	0.23	0.37	0.06	108	0.02	0.12	0.11	0.26	0.32	0.11	0.04
8	0.28	0.24	0.22	0.04	15	0.03	0.13	0.12	0.23	0.16	0.11	0.05
9	0.25	0.26	0.21	0.08	137	0.06	0.13	0.19	0.14	0.10	0.10	0.05
10	0.45	0.24	0.22	0.03	0.43	0.07	0.48	0.20	0.36	0.09	0.12	0.06
11	0.25	0.62	0.23	0.06	0.21	0.07	0.14	0.18	0.23	0.13	0.14	0.06
12	0.21	0.27	0.21	0.04	0.18	0.06	0.08	0.42	0.19	0.09	0.15	0.06
13	0.17	0.25	0.31	0.04	39	0.06	0.12	0.26	0.21	0.14	0.16	0.08
14	0.21	0.27	0.25	0.06	0.53	0.12	0.14	0.18	0.23	0.13	0.23	0.08
15	0.31	0.23	188	0.05	0.16	0.13	0.09	0.09	0.22	0.24	0.15	0.08
16	0.36	0.33	0.35	0.05	98	0.14	0.10	0.15	0.21	0.10	0.16	0.05
17	0.26	0.27	104	0.05	57	0.14	0.11	0.16	0.19	0.12	0.16	0.07
18	0.27	0.28	3.6	0.02	0.33	0.14	0.13	0.15	0.22	0.11	0.14	0.05
19	0.27	0.26	0.10	0.05	0.22	0.17	0.12	0.15	0.19	0.10	0.16	0.07
20	0.26	0.33	0.08	0.23	0.16	0.15	0.15	0.11	0.21	0.13	0.13	0.07
21	0.31	0.30	0.05	0.23	0.17	0.33	0.13	0.06	0.23	0.21	0.12	0.08
22	0.24	0.32	0.58	0.18	0.18	12	0.15	0.08	0.18	0.24	0.13	0.08
23	0.25	0.34	0.10	9.1	0.18	0.16	0.13	0.14	0.13	0.27	0.11	0.13
24	0.23	0.31	0.05	0.69	0.15	0.15	0.15	0.07	0.14	0.10	0.17	0.05
25	0.27	0.44	35	0.18	0.11	0.15	0.22	0.08	0.11	0.11	0.15	0.05
26	0.27	125	0.18	3.8	0.12	2.6	0.22	0.08	0.17	0.27	0.13	0.06
27	0.29	4.6	0.13	0.12	0.10	7.9	0.24	0.14	0.16	0.13	0.23	0.04
28	0.29	0.32	0.13	0.15	0.10	7.6	0.25	0.12	0.11	0.12	0.19	0.06
29	0.34	0.26	0.06	0.15	---	7.7	0.25	0.10	0.12	0.10	0.21	0.06
30	0.26	0.24	0.54	0.13	---	3.1	0.18	0.13	0.12	0.10	0.33	0.11
31	0.29	---	0.09	0.13	---	0.10	---	0.14	---	0.08	0.21	---
Total	8.39	145.26	336.47	16.14	636.75	47.81	4.52	4.45	5.81	4.32	4.80	2.20
Mean	0.27	4.84	10.9	0.52	22.7	1.54	0.15	0.14	0.19	0.14	0.15	0.07
Max	0.45	125	188	9.1	137	12	0.48	0.42	0.36	0.32	0.33	0.21
Min	0.17	0.23	0.05	0.02	0.05	0.02	0.04	0.06	0.11	0.06	0.09	0.03
Ac-ft	17	288	667	32	1,260	95	9.0	8.8	12	8.6	9.5	4.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	23.8	11.4	10.3	26.2	21.2	6.38	3.70	3.60	2.23	2.75	5.77	5.55
Max	98.1	63.2	46.9	180	67.7	19.5	13.0	31.5	12.9	15.9	40.9	28.8
(WY)	(2000)	(2001)	(2000)	(2005)	(2005)	(2005)	(2006)	(2004)	(2004)	(2004)	(2002)	(2004)
Min	0.27	0.59	0.19	0.52	1.70	0.26	0.15	0.01	0.09	0.14	0.15	0.04
(WY)	(2009)	(2000)	(2001)	(2009)	(2002)	(2008)	(2009)	(1999)	(2008)	(2009)	(2009)	(1999)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1999 - 2009	
Annual total	1,667.99		1,216.92			
Annual mean	4.56		3.33		10.7	
Highest annual mean					29.8	2005
Lowest annual mean					1.13	2007
Highest daily mean	233	Jan 4	188	Dec 15	1,210	Jan 18, 2005
Lowest daily mean	0.05	Jun 5	0.02	Jan 18	0.00	Dec 21, 1998
Annual seven-day minimum	0.07	May 31	0.04	Jan 12	0.00	Dec 26, 1998
Maximum peak flow			857	Dec 15	3,420	Oct 20, 2004
Maximum peak stage			2.80	Dec 15	5.43	Oct 20, 2004
Annual runoff (ac-ft)	3,310		2,410		7,740	
10 percent exceeds	2.2		0.39		25	
50 percent exceeds	0.25		0.15		0.39	
90 percent exceeds	0.09		0.06		0.09	

