



**11046530 SAN JUAN CREEK AT LA NOVIA STREET BRIDGE, AT SAN JUAN CAPISTRANO, CA**

San Juan Creek Basin

LOCATION.--Lat 33°30'09", long 117°38'50" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.6, T.8 S., R.8 W., Orange County, Hydrologic Unit 18070301, on right bank, 20 ft downstream from La Novia Street Bridge, 1.3 mi upstream from Arroyo Trabuco Creek, and 0.8 mi east of San Juan Capistrano.

DRAINAGE AREA.--109 mi<sup>2</sup>.

**WATER-DISCHARGE RECORDS**

PERIOD OF RECORD.--October 1985 to current year. October 1985 to September 1986, published as "San Juan Creek at San Juan Capistrano."

WATER TEMPERATURE: Water years 1986-88.

SEDIMENT DATA: Water years 1986-93.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 100 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. No regulation upstream from station. Capistrano Water Co. diverts water 2.0 mi upstream. Various amounts of diverted water reach station as irrigation return flow. October 1928 to September 1969 and October 1969 to September 1985, data published as "San Juan Creek near San Juan Capistrano" (station 11046500) and "San Juan Creek at San Juan Capistrano" (station 11046550), which are located approximately 1.9 mi upstream and 1.0 mi downstream, respectively. Data for these sites are roughly equivalent.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,500 ft<sup>3</sup>/s, estimated, Jan. 11, 2005, gage height, 19.44 ft, from rating curve extended above 3,420 ft<sup>3</sup>/s, maximum gage height, 20.66 ft, Mar. 5, 2005; no flow for many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 22,400 ft<sup>3</sup>/s, Feb. 25, 1969, gage height, 5.60 ft, from floodmark, at site and datum then in use.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft<sup>3</sup>/s and (or) maximum (\*), from rating curve extended above 3,510 ft<sup>3</sup>/s:

[e, estimated]

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 20	1330	1,560	14.10
Oct 27	0730	1,230	13.94
Dec 29	0715	745	13.62
Jan 11	0430	e*28,500	*19.44
Feb 11	1630	427	14.17
Feb 23	0730	5,320	16.19
May 06	2130	220	10.77

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**  
 [e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	4.5	2.4	83	68	e465	e54	e35	12	4.6	2.8	0.62
2	0.00	4.2	2.3	43	70	e350	e48	e34	12	5.4	2.7	0.67
3	0.00	4.2	2.3	177	77	e270	e42	e32	14	5.7	1.9	0.70
4	0.00	3.1	2.3	286	74	e226	e35	31	11	5.6	2.3	0.78
5	0.00	2.2	6.3	140	75	e203	e34	28	11	4.8	1.9	1.1
6	e0.00	2.0	9.5	84	77	e183	34	99	11	4.0	1.5	1.2
7	0.00	1.9	4.3	195	78	e171	32	75	10	3.7	2.1	1.0
8	0.00	2.0	4.3	336	71	166	32	44	10	3.3	2.3	0.58
9	0.00	3.3	3.7	3,530	70	146	33	42	9.7	3.2	2.5	0.46
10	0.00	2.6	2.9	3,550	68	134	32	39	9.2	3.2	3.1	0.52
11	0.00	2.0	2.8	8,120	192	124	32	36	11	3.0	2.6	0.47
12	0.00	2.5	2.7	540	274	117	33	30	13	2.7	3.0	0.68
13	0.00	1.8	2.8	273	138	121	32	25	16	3.0	2.5	0.99
14	0.00	1.7	2.6	235	87	120	31	24	13	2.7	2.6	1.3
15	0.00	1.9	2.4	207	75	113	31	24	12	2.2	2.5	1.4
16	0.00	1.3	2.2	157	77	108	32	25	13	2.2	2.7	1.2
17	29	1.1	2.0	127	70	106	32	25	13	2.4	2.5	1.2
18	11	1.1	1.9	111	90	100	33	22	12	2.9	1.9	1.4
19	7.3	1.3	1.9	99	187	113	35	18	12	2.7	1.6	1.1
20	281	1.4	2.1	94	134	110	35	18	10	2.4	1.7	1.6
21	27	24	2.1	86	1,510	93	35	16	10	2.2	2.1	1.7
22	8.7	7.7	2.0	79	1,030	106	36	14	8.8	1.7	1.9	1.4
23	4.0	5.0	1.9	75	2,190	145	42	14	7.3	1.4	1.7	1.3
24	2.0	4.0	1.7	69	1,010	93	76	14	8.0	2.3	1.6	1.2
25	e1.8	3.4	1.7	65	364	90	74	14	8.1	2.5	1.4	1.6
26	e3.5	3.1	1.9	63	248	85	e63	13	7.5	2.3	0.98	1.4
27	335	3.2	1.8	64	e720	80	e58	12	7.1	2.1	0.67	0.90
28	103	4.0	24	70	e590	e77	e56	14	6.8	2.0	1.7	0.67
29	15	2.8	221	64	---	e70	e49	12	6.2	1.8	0.98	0.45
30	8.1	2.5	46	64	---	e64	38	13	5.1	1.7	0.69	0.40
31	5.6	---	133	65	---	e57	---	12	---	2.3	0.71	---
<b>Total</b>	842.00	105.8	500.8	19,151	9,714	4,406	1,229	854	309.8	92.0	61.13	29.99
<b>Mean</b>	27.2	3.53	16.2	618	347	142	41.0	27.5	10.3	2.97	1.97	1.00
<b>Max</b>	335	24	221	8,120	2,190	465	76	99	16	5.7	3.1	1.7
<b>Min</b>	0.00	1.1	1.7	43	68	57	31	12	5.1	1.4	0.67	0.40
<b>Ac-ft</b>	1,670	210	993	37,990	19,270	8,740	2,440	1,690	614	182	121	59

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2005, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1.83	2.31	5.18	80.8	104	71.1	18.8	10.6	3.59	1.17	0.55	0.41
<b>Max</b>	27.2	9.45	16.8	618	816	663	121	94.9	25.5	8.93	3.83	3.33
<b>(WY)</b>	(2005)	(1997)	(1997)	(2005)	(1998)	(1995)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)
<b>Min</b>	0.00	0.00	0.00	0.50	0.77	0.55	0.04	0.00	0.00	0.00	0.00	0.00
<b>(WY)</b>	(1987)	(1987)	(1990)	(2000)	(2002)	(1990)	(1989)	(1987)	(1986)	(1986)	(1986)	(1986)

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SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1986 - 2005	
<b>Annual total</b>	2,535.76		37,295.52			
<b>Annual mean</b>	6.93		102		24.6	
<b>Highest annual mean</b>					106	1993
<b>Lowest annual mean</b>					0.61	1989
<b>Highest daily mean</b>	335	Oct 27	8,120	Jan 11	8,120	Jan 11, 2005
<b>Lowest daily mean</b>	0.00	May 7	0.00	Oct 1	0.00	May 20, 1986
<b>Annual seven-day minimum</b>	0.00	Jun 1	0.00	Oct 1	0.00	May 20, 1986
<b>Maximum peak flow</b>			e28,500	Jan 11	e28,500	Jan 11, 2005
<b>Maximum peak stage</b>			19.44	Jan 11	20.66	Mar 5, 1995
<b>Annual runoff (ac-ft)</b>	5,030		73,980		17,850	
<b>10 percent exceeds</b>	7.4		142		28	
<b>50 percent exceeds</b>	1.5		9.7		1.1	
<b>90 percent exceeds</b>	0.00		1.1		0.00	

e Estimated.

