

**11047300 Arroyo Trabuco at San Juan Capistrano, CA**

San Juan Creek Basin

LOCATION.--Lat 33°29'54", long 117°39'54" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.1, T.8 S., R.8 W., Orange County, CA, Hydrologic Unit 18070301, on left bank, 30 ft downstream from Del Obispo Street Bridge, in San Juan Capistrano.

DRAINAGE AREA.--54.1 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1972 to September 1977, October 1983 to September 1989, October 1995 to current year.

WATER TEMPERATURE: Water years 1971-77, 1984.

SEDIMENT DATA: Water Years 1971-77, 1984-93.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 80 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft<sup>3</sup>/s, Feb. 23, 1998, gage height, 19.81 ft, from rating curve extended above 1,600 ft<sup>3</sup>/s; no flow at times in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft<sup>3</sup>/s and (or) maximum (\*), from rating curve extended above 1,600 ft<sup>3</sup>/s:

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 19	1735	1,520	13.56
Dec 22	0745	*8,530	*18.94
Dec 29	1300	989	12.92
Feb 26	0330	1,960	14.03
Mar 21	0115	1,800	13.87

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.2	3.6	4.4	59	15	45	21	11	5.5	4.9	5.9	2.4
2	6.3	3.1	4.3	91	13	37	20	8.3	6.0	4.1	2.9	2.5
3	2.3	2.8	3.8	148	11	33	20	7.1	6.4	3.8	2.2	2.4
4	2.2	2.8	3.9	56	13	30	18	6.7	7.8	3.6	1.8	2.6
5	6.5	3.6	4.1	43	13	27	17	6.6	8.7	3.4	2.3	2.9
6	72	3.4	15	38	13	25	17	6.8	15	3.2	2.4	3.6
7	12	3.7	5.6	34	13	49	16	6.4	8.0	2.9	2.5	2.5
8	5.2	18	4.6	32	13	24	37	6.5	7.5	3.0	3.0	2.1
9	3.8	8.0	4.5	29	13	21	59	7.4	7.9	2.9	3.0	2.7
10	3.2	5.5	4.5	27	12	19	19	6.5	9.1	3.0	3.1	18
11	2.9	5.0	4.4	25	11	18	16	5.9	9.5	3.1	3.7	9.2
12	3.2	4.6	4.3	24	11	17	15	5.5	9.9	3.4	3.7	5.7
13	3.2	4.4	4.2	23	10	17	12	5.7	9.3	3.0	3.6	3.9
14	2.7	4.6	4.5	22	9.9	16	12	5.7	9.2	2.7	3.3	3.4
15	3.2	5.0	5.0	20	10	15	13	13	8.2	3.3	3.0	3.6
16	4.0	5.8	23	19	49	14	13	7.3	8.3	2.8	2.8	3.6
17	5.1	6.9	56	19	19	14	12	12	8.3	2.3	2.5	4.1
18	10	5.8	172	18	84	14	14	47	7.6	2.2	2.4	3.8
19	408	5.9	865	17	154	14	16	8.8	7.5	2.1	2.6	4.0
20	172	111	1,460	16	127	158	16	6.1	7.6	1.9	3.0	4.0
21	33	120	1,350	16	30	367	15	5.4	5.6	2.0	3.1	3.6
22	17	18	3,490	15	24	68	15	4.8	5.2	2.3	3.0	3.8
23	6.9	8.9	503	15	19	217	14	4.6	4.6	2.0	2.9	3.7
24	5.4	10	193	14	16	106	14	4.1	5.6	1.9	2.9	3.9
25	28	6.2	145	14	16	96	13	4.1	5.4	2.0	2.5	4.1
26	8.7	5.0	183	13	549	37	12	4.4	5.3	1.7	2.4	4.0
27	6.1	5.1	81	14	87	42	11	4.7	5.1	1.8	2.2	3.3
28	4.6	20	64	13	57	30	12	5.1	5.0	2.0	2.3	3.2
29	3.1	5.4	321	12	---	27	11	8.1	5.2	2.0	2.3	3.0
30	23	4.5	100	17	---	23	10	6.3	4.9	1.9	2.4	3.1
31	5.8	---	71	20	---	20	---	5.4	---	7.9	2.4	---
<b>Total</b>	870.6	416.6	9,154.1	923	1,411.9	1,640	510	247.3	219.2	89.1	88.1	122.7
<b>Mean</b>	28.1	13.9	295	29.8	50.4	52.9	17.0	7.98	7.31	2.87	2.84	4.09
<b>Max</b>	408	120	3,490	148	549	367	59	47	15	7.9	5.9	18
<b>Min</b>	1.2	2.8	3.8	12	9.9	14	10	4.1	4.6	1.7	1.8	2.1
<b>Ac-ft</b>	1,730	826	18,160	1,830	2,800	3,250	1,010	491	435	177	175	243

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	8.45	11.4	31.8	32.9	71.6	25.6	14.3	6.92	3.17	1.87	1.65	2.23
<b>Max</b>	106	37.8	295	290	481	129	59.8	56.9	22.1	7.99	8.90	7.81
<b>(WY)</b>	(2005)	(1997)	(2011)	(2005)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1977)	(1986)
<b>Min</b>	0.05	0.81	1.73	0.85	2.84	3.74	0.92	0.71	0.01	0.05	0.02	0.00
<b>(WY)</b>	(1974)	(1975)	(1973)	(1976)	(1977)	(1988)	(1977)	(1988)	(1973)	(1973)	(1973)	(1973)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1973 - 2011	
<b>Annual total</b>	16,635.26		15,692.6			
<b>Annual mean</b>	45.6		43.0		17.4	
<b>Highest annual mean</b>					74.1	1998
<b>Lowest annual mean</b>					3.17	1976
<b>Highest daily mean</b>	3,490	Dec 22	3,490	Dec 22	3,490	Dec 22, 2010
<b>Lowest daily mean</b>	0.96	Aug 23	1.2	Oct 1	0.00	Oct 1, 1972
<b>Annual seven-day minimum</b>	1.1	Aug 20	1.9	Jul 24	0.00	Oct 1, 1972
<b>Maximum peak flow</b>			8,530	Dec 22	10,000	Feb 23, 1998
<b>Maximum peak stage</b>			18.94	Dec 22	19.81	Feb 23, 1998
<b>Annual runoff (ac-ft)</b>	33,000		31,130		12,580	
<b>10 percent exceeds</b>	51		56		21	
<b>50 percent exceeds</b>	4.8		7.4		2.9	
<b>90 percent exceeds</b>	1.7		2.6		0.50	

