

Water-Data Report 2009

## 11070500 San Jacinto River near Elsinore, CA

Santa Ana River Basin

LOCATION.--Lat 33°39'51", long 117°17'35" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.9, T.6 S., R.4 W., Riverside County, CA, Hydrologic Unit 18070202, on right bank, 2.0 mi east of Elsinore, 2.1 mi downstream from Railroad Canyon Dam, and 36 mi downstream from Lake Hemet.

DRAINAGE AREA.--723 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1916 to current year. Monthly figures for 1927-50, adjusted for diversion, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-72-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,270 ft above NGVD of 1929, from topographic map. Prior to Feb. 13, 1916, nonrecording gage at site 0.7 mi downstream at different datum. Feb. 13, 1916, to Oct. 27, 1921, nonrecording gage at present site, at different datum.

REMARKS.--Records fair. Flow partly regulated by Lake Hemet, capacity, 13,500 acre-ft, and since 1928 by Railroad Canyon Reservoir, capacity, 12,000 acre-ft, 2.1 mi upstream from station. Diversions for irrigation and domestic use upstream from Railroad Canyon Reservoir took place in some years prior to water year 1994. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft<sup>3</sup>/s, Feb. 17, 1927, gage height, 11.8 ft, from rating curve extended above 2,000 ft<sup>3</sup>/s, on basis of slope-area measurement of peak flow; no flow for many days in most years.

## 11070500 San Jacinto River near Elsinore, CA—Continued

**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	0.17	0.56	0.98	1.5	1.3	1.6	0.90	0.68	0.37	0.03	0.01	0.00
2	0.16	0.61	0.92	1.8	1.3	1.5	0.91	0.69	0.32	0.02	0.01	0.00
3	0.20	0.72	0.91	1.8	1.3	1.4	0.91	0.69	0.25	0.07	0.01	0.00
4	0.31	0.75	0.91	2.3	1.2	1.4	0.89	0.65	0.30	0.04	0.01	0.00
5	0.40	0.75	0.89	2.7	1.1	1.4	0.82	0.61	0.34	0.03	0.01	0.00
6	0.39	0.68	0.87	2.2	2.5	1.3	0.77	0.56	0.35	0.02	0.01	0.00
7	0.33	0.63	0.86	2.3	9.7	1.3	0.77	0.51	0.39	0.02	0.01	0.00
8	0.30	0.62	0.91	2.0	172	1.3	0.80	0.46	0.41	0.02	0.01	0.00
9	0.30	0.66	0.90	2.0	17	1.3	0.85	0.44	0.40	0.01	0.01	0.00
10	0.35	0.74	1.0	4.2	151	1.2	0.93	0.44	0.44	0.01	0.01	0.00
11	0.43	0.77	0.98	2.5	90	1.2	1.0	0.46	0.47	0.01	0.01	0.00
12	0.42	0.75	0.92	2.0	30	1.2	0.95	0.49	0.46	0.01	0.02	0.00
13	0.38	0.71	0.96	2.0	13	1.2	0.85	0.51	0.47	0.01	0.01	0.00
14	0.34	0.65	0.96	1.5	13	1.2	0.85	0.47	0.42	0.01	0.01	0.00
15	0.35	0.57	12	1.3	8.7	1.2	0.86	0.40	0.42	0.01	0.00	0.00
16	0.37	0.57	5.5	1.2	9.5	1.2	0.82	0.37	0.39	0.01	0.00	0.00
17	0.37	0.58	27	1.2	82	1.2	0.81	0.31	0.34	0.01	0.00	0.00
18	0.37	0.61	31	1.2	107	1.1	0.76	0.29	0.29	0.01	0.00	0.00
19	0.40	0.62	219	1.1	43	1.1	0.69	0.25	0.22	0.00	0.00	0.00
20	0.46	0.65	20	1.1	18	1.1	0.66	0.23	0.22	0.00	0.00	0.00
21	0.49	0.67	17	1.1	9.7	1.1	0.63	0.22	0.24	0.00	0.00	0.00
22	0.42	0.67	13	1.1	5.6	1.1	0.59	0.25	0.21	0.00	0.00	0.00
23	0.41	0.68	9.4	1.1	3.7	1.1	0.64	0.30	0.19	0.01	0.00	0.00
24	0.44	0.73	7.4	1.3	2.6	1.0	0.70	0.30	0.21	0.01	0.00	0.00
25	0.45	0.76	8.3	1.3	2.1	1.00	0.70	0.33	0.19	0.01	0.00	0.00
26	0.46	3.2	8.5	1.7	1.9	0.99	0.71	0.36	0.14	0.01	0.00	0.00
27	0.46	3.8	7.3	1.7	1.8	1.1	0.72	0.35	0.11	0.01	0.00	0.00
28	0.46	2.0	6.1	1.8	1.7	1.5	0.72	0.34	0.07	0.01	0.00	0.00
29	0.47	1.3	3.5	1.7	---	1.1	0.72	0.35	0.05	0.01	0.00	0.00
30	0.47	1.1	1.8	1.9	---	1.0	0.70	0.43	0.04	0.01	0.00	0.00
31	0.51	---	1.7	1.5	---	0.91	---	0.41	---	0.01	0.00	---
<b>Total</b>	11.84	28.11	411.47	54.1	801.7	37.30	23.63	13.15	8.72	0.44	0.15	0.00
<b>Mean</b>	0.38	0.94	13.3	1.75	28.6	1.20	0.79	0.42	0.29	0.01	0.00	0.00
<b>Max</b>	0.51	3.8	219	4.2	172	1.6	1.0	0.69	0.47	0.07	0.02	0.00
<b>Min</b>	0.16	0.56	0.86	1.1	1.1	0.91	0.59	0.22	0.04	0.00	0.00	0.00
<b>Ac-ft</b>	23	56	816	107	1,590	74	47	26	17	0.9	0.3	0.00

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2009, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1.33	0.95	5.27	35.8	84.6	65.9	21.3	5.07	0.73	0.55	0.37	0.48
<b>Max</b>	70.9	28.1	268	1,303	2,116	802	333	132	13.8	19.7	14.6	15.4
<b>(WY)</b>	(2005)	(1938)	(1922)	(1916)	(1980)	(1983)	(1941)	(1983)	(1937)	(1938)	(1937)	(1938)
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>(WY)</b>	(1917)	(1917)	(1917)	(1921)	(1921)	(1921)	(1921)	(1921)	(1919)	(1918)	(1918)	(1917)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1916 - 2009	
<b>Annual total</b>	1,801.71		1,390.61			
<b>Annual mean</b>	4.92		3.81		16.4	
<b>Highest annual mean</b>					232	1980
<b>Lowest annual mean</b>					0.00	1921
<b>Highest daily mean</b>	348	Jan 28	219	Dec 19	14,000	Jan 28, 1916
<b>Lowest daily mean</b>	0.01	Jul 6	0.00	Jul 19	0.00	Jul 28, 1916
<b>Annual seven-day minimum</b>	0.02	Jul 3	0.00	Aug 15	0.00	Jul 28, 1916
<b>Maximum peak flow</b>			759	Dec 19	16,000	Feb 17, 1927
<b>Maximum peak stage</b>			9.21	Dec 19	11.80	Feb 17, 1927
<b>Annual runoff (ac-ft)</b>	3,570		2,760		11,900	
<b>10 percent exceeds</b>	5.5		2.6		3.3	
<b>50 percent exceeds</b>	0.66		0.58		0.10	
<b>90 percent exceeds</b>	0.05		0.00		0.00	

