

11069500 San Jacinto River near San Jacinto, CA

Santa Ana River Basin

LOCATION.--Lat 33°44'17", long 116°49'59" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.13, T.5 S., R.1 E., Riverside County, CA, Hydrologic Unit 18070202, on left bank, 0.6 mi downstream from bridge on State Highway 74, 1.5 mi downstream from North Fork San Jacinto River, 7.8 mi southeast of San Jacinto, and 9.5 mi downstream from Lake Hemet.

DRAINAGE AREA.--142 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1920 to September 1991, October 1996 to current year. River only records for October 1969 to September 1980 and October 1981 to September 1991 are at site upstream of Lake Hemet Municipal Water District's lower canal and are equivalent to other records if lower canal diversion is deducted from flow past station. Records of lower canal diversion are available at Lake Hemet Municipal Water District. Combined records of river and diversions are equivalent for October 1948 to September 1981. Combined records of river and diversion for October 1981 to September 1990, published in WDR CA-82-1 to WDR CA-90-1, are not equivalent due to diversion for municipal supply upstream of gages beginning in 1982. Monthly discharge only for October 1920 and July to September 1926 are published in WSP 1315-B.

REVISED RECORDS.--WSP 881: 1938. WSP 1635: 1950. WSP 1928: Drainage area. WDR CA-97-1: Date of peak discharge for Water Year 1991.

GAGE.--Water-stage recorder, concrete control, and crest-stage gage. Datum of gage is 1,910 ft above NGVD of 1929, from topographic map. From 1927 to 1991 gage operated at various locations and datums approximately 0.6 mi upstream. See WDR CA-91-1 for further description.

REMARKS.--Records poor. Flow partly regulated by Lake Hemet. Lake Hemet Municipal Water District's upper canal diverts 4.5 mi upstream from station. Several other small diversions in the basin. Diversions upstream from station began prior to 1920. See schematic of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--(River only) Maximum discharge, 45,000 ft³/s, Feb. 16, 1927, gage height unknown, on basis of slope-area measurement of peak flow; no flow for several months in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and (or) maximum (*), from rating curve extended above 275 ft³/s, on basis of critical depth computations:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 5	1900	*221	*3.99

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.02	0.02	0.07	1.6	1.2	0.44	0.18	0.18	0.05	0.01	0.03	0.03
2	0.01	0.03	0.07	1.2	0.98	0.77	0.19	0.17	0.05	0.01	0.00	0.02
3	0.01	0.03	0.07	0.28	0.25	0.81	0.15	0.17	0.05	0.00	0.00	15
4	0.02	0.02	0.08	0.29	0.22	0.49	0.11	0.19	0.06	0.00	0.00	8.2
5	0.02	0.01	0.07	0.46	0.22	0.88	0.13	0.20	0.06	0.00	0.00	27
6	0.02	0.02	0.07	0.22	0.49	0.20	0.13	0.14	0.05	0.00	0.00	8.3
7	0.02	0.03	0.04	0.27	0.87	0.20	0.14	0.11	0.05	0.00	0.00	0.22
8	0.02	0.04	0.01	0.38	1.3	4.1	0.16	0.11	0.04	0.00	0.00	0.17
9	0.03	0.06	0.02	0.35	2.6	8.2	0.15	0.13	0.03	0.00	0.00	0.16
10	0.03	0.06	0.02	0.38	1.7	4.4	0.16	0.13	0.03	0.00	0.01	0.03
11	0.03	0.06	0.02	0.52	1.0	2.5	0.15	0.10	0.01	0.00	0.00	0.03
12	0.03	0.06	0.03	0.46	0.29	3.1	0.14	0.08	0.01	0.00	0.00	0.04
13	0.03	0.06	0.06	0.40	0.21	3.9	0.14	0.08	0.01	0.00	0.00	0.04
14	0.03	0.04	0.04	0.38	0.19	5.3	0.16	0.07	0.01	0.00	0.00	0.02
15	3.7	0.04	0.06	0.39	0.18	2.9	0.16	0.09	0.00	0.00	0.00	0.03
16	0.09	0.04	0.07	0.38	0.19	0.24	0.19	0.09	0.00	0.00	0.00	0.02
17	0.04	0.04	0.06	0.35	0.19	0.26	0.18	0.10	0.00	0.00	0.00	0.02
18	0.03	0.04	0.07	0.31	0.16	0.20	0.15	0.10	0.00	0.00	0.00	0.02
19	0.03	0.04	0.09	0.29	1.5	0.19	0.16	0.09	0.00	0.00	0.00	0.02
20	0.03	0.04	0.45	0.28	5.0	0.16	0.16	0.08	0.01	0.00	0.00	0.02
21	0.03	0.04	1.2	0.30	2.1	0.16	0.16	0.07	0.00	0.00	0.00	0.02
22	0.03	0.04	1.1	0.28	0.59	0.16	0.16	0.08	0.00	0.00	0.00	0.03
23	0.04	0.04	1.0	0.27	0.66	0.15	0.17	0.08	0.00	0.00	0.00	0.02
24	0.03	0.04	1.2	0.33	0.79	0.14	0.19	0.08	0.01	0.00	0.00	0.02
25	0.03	0.04	1.7	2.2	0.69	0.14	0.20	0.08	0.02	0.00	0.00	0.04
26	0.02	0.04	1.3	10	0.58	0.15	0.17	0.08	0.02	0.01	0.00	0.06
27	0.02	0.04	1.7	15	0.38	0.15	0.16	0.08	0.01	0.01	0.00	0.05
28	0.01	0.05	1.5	7.8	0.31	0.15	0.16	0.09	0.01	0.00	0.00	0.03
29	0.01	0.06	1.3	4.5	---	0.15	0.17	0.07	0.02	0.01	0.60	0.03
30	0.01	0.07	1.4	2.6	---	0.15	0.19	0.06	0.02	0.01	0.08	0.03
31	0.02	---	1.5	1.5	---	0.16	---	0.06	---	0.02	0.04	---
Total	4.49	1.24	16.37	53.97	24.84	40.90	4.82	3.24	0.63	0.08	0.76	59.72
Mean	0.14	0.04	0.53	1.74	0.89	1.32	0.16	0.10	0.02	0.00	0.02	1.99
Max	3.7	0.07	1.7	15	5.0	8.2	0.20	0.20	0.06	0.02	0.60	27
Min	0.01	0.01	0.01	0.22	0.16	0.14	0.11	0.06	0.00	0.00	0.00	0.02
Ac-ft	8.9	2.5	32	107	49	81	9.6	6.4	1.2	0.2	1.5	118

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.80	3.68	14.5	19.6	51.1	61.5	44.8	20.8	5.82	1.09	1.02	1.05
Max	14.2	164	283	230	1,039	743	312	224	81.8	13.0	13.6	23.1
(WY)	(1980)	(1966)	(1967)	(1969)	(1980)	(1938)	(1941)	(1983)	(1998)	(1979)	(1983)	(1983)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1923)	(1924)	(1930)	(1936)	(1951)	(1947)	(1934)	(1934)	(1931)	(1924)	(1923)	(1922)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1921 - 2013	
Annual total	803.62		211.06		18.4	
Annual mean	2.20		0.58		156	
Highest annual mean					0.05	1980
Lowest annual mean					0.00	2007
Highest daily mean	34	Mar 26	27	Sep 5	7,590	Feb 21, 1980
Lowest daily mean	0.00	Jul 29	0.00	Jun 15	0.00	Oct 1, 1920
Annual seven-day minimum	0.00	Jul 29	0.00	Jul 3	0.00	Oct 1, 1920
Maximum peak flow			221	Sep 5	45,000	Feb 16, 1927
Maximum peak stage			3.99	Sep 5	5.34	Jan 11, 2005
Annual runoff (ac-ft)	1,590		419		13,360	
10 percent exceeds	7.8		1.2		37	
50 percent exceeds	0.15		0.06		0.13	
90 percent exceeds	0.02		0.00		0.00	

