

Water-Data Report 2010

11023000 San Diego River at Fashion Valley, at San Diego, CA

San Diego River Basin

LOCATION.--Lat 32°45'54", long 117°10'04" referenced to North American Datum of 1927, San Diego County, CA, Hydrologic Unit 18070304, in Mission San Diego Grant, on left bank, 500 ft upstream from Fashion Valley Road crossing, 0.4 mi downstream from unnamed tributary, 2.6 mi upstream from mouth, and 26.4 mi downstream from El Capitan Reservoir.

DRAINAGE AREA.--429 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1912 to January 1916 published as "San Diego River at San Diego" (monthly discharge only, published in WSP 1315-B), January 1982 to current year. Records for Oct. 1, 1981, to Jan. 17, 1982, published in WDR CA-82-1, are in error and should not be used.

WATER TEMPERATURE: Water year 1984.

SEDIMENT DATA: Water year 1984.

REVISED RECORDS.--See PERIOD OF RECORD.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above NGVD of 1929, from topographic map. See WSP 1315-B for history of changes for period October 1912 to January 1916.

REMARKS.--Records fair. Flow regulated by Cuyamaca Reservoir, capacity, 11,740 acre-ft; El Capitan Reservoir (station 11020600), and San Vicente Reservoir (station 11022100). Diversions by city of San Diego for municipal supply and by Helix Irrigation District. See schematic diagram of the San Diego River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,000 ft³/s, Jan. 27, 1916, gage height, 19.3 ft, site and datum then in use, estimated on basis of upstream station, San Diego River near Santee; no flow at times during some years.

Maximum discharge recorded since storage began in El Capitan Reservoir and San Vicente Reservoir, 9,430 ft³/s, Mar. 6, 1995, gage height, 13.47 ft, from rating curve extended above 5,800 ft³/s.

11023000 San Diego River at Fashion Valley, at San Diego, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.85	0.96	7.2	11	44	185	93	17	5.4	2.4	1.1	0.88
2	0.85	0.95	7.3	10	41	131	54	16	5.1	2.5	1.1	0.88
3	0.87	0.87	5.9	10	37	100	30	15	4.7	3.0	1.3	0.80
4	0.90	0.85	4.8	9.7	33	81	21	14	4.4	3.1	1.2	0.83
5	1.0	0.91	4.3	9.5	32	64	25	13	4.2	3.0	1.2	1.0
6	1.0	0.93	3.9	9.2	118	55	32	12	4.3	2.9	1.3	1.2
7	1.0	1.1	441	8.9	247	165	24	12	4.3	2.7	1.1	1.2
8	1.1	1.3	765	8.3	102	143	19	11	4.3	2.7	1.1	1.1
9	1.1	1.3	138	8.1	78	79	16	11	4.1	2.7	1.1	1.0
10	1.1	1.1	81	8.1	267	56	14	11	3.8	2.7	1.1	0.98
11	1.1	1.1	61	8.1	111	47	14	9.8	3.8	2.7	1.2	1.1
12	1.2	1.2	85	7.9	77	41	183	8.9	3.8	2.6	1.2	1.3
13	1.6	1.1	441	7.8	64	36	146	8.9	3.7	2.3	1.1	1.3
14	2.0	1.0	169	8.0	53	33	49	8.7	3.6	2.0	1.1	1.2
15	1.9	1.1	71	8.4	44	30	31	8.5	3.4	1.8	1.2	1.1
16	1.6	1.1	49	8.4	38	27	25	8.4	3.3	1.9	1.2	1.1
17	1.4	1.1	39	8.8	34	25	22	8.4	3.2	1.8	1.1	1.1
18	1.4	1.1	29	225	31	24	20	8.1	3.0	1.8	1.1	1.3
19	1.4	1.0	22	736	29	23	20	7.7	2.9	1.8	1.0	1.4
20	1.3	1.1	19	564	110	22	18	7.7	2.8	1.7	0.98	1.4
21	1.1	1.1	17	2,130	98	21	33	7.2	2.8	1.6	0.93	1.3
22	1.0	1.2	18	1,250	94	21	175	7.0	2.8	1.5	1.0	1.3
23	1.1	1.2	17	656	54	20	170	6.9	2.7	1.4	1.1	1.4
24	1.0	1.2	15	256	38	20	52	6.5	2.6	1.4	1.1	1.4
25	1.1	1.2	14	172	33	19	33	6.2	2.6	1.5	0.98	1.3
26	1.1	1.1	13	128	30	19	29	5.7	2.7	1.6	0.95	1.2
27	1.0	1.1	12	120	179	18	25	5.4	2.7	1.5	0.90	1.2
28	0.96	2.6	12	94	491	17	23	5.8	2.6	1.4	0.90	1.1
29	0.91	23	11	71	---	16	21	5.6	2.3	1.3	0.91	1.1
30	0.91	7.0	11	59	---	16	19	5.6	2.3	1.2	0.94	1.1
31	0.97	---	11	51	---	15	---	5.5	---	1.3	0.89	---
Total	35.82	61.87	2,594.4	6,662.2	2,607	1,569	1,436	284.5	104.2	63.8	33.38	34.57
Mean	1.16	2.06	83.7	215	93.1	50.6	47.9	9.18	3.47	2.06	1.08	1.15
Max	2.0	23	765	2,130	491	185	183	17	5.4	3.1	1.3	1.4
Min	0.85	0.85	3.9	7.8	29	15	14	5.4	2.3	1.2	0.89	0.80
Ac-ft	71	123	5,150	13,210	5,170	3,110	2,850	564	207	127	66	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10.7	22.6	45.2	92.8	115	112	40.9	14.9	5.84	2.75	2.17	2.80
Max	150	144	143	683	668	777	242	135	21.3	8.93	9.47	20.0
(WY)	(2005)	(1986)	(1985)	(1993)	(1998)	(1983)	(1983)	(1983)	(1983)	(1983)	(1983)	(1986)
Min	0.62	0.87	5.06	6.51	8.93	8.38	7.25	2.45	1.30	0.25	0.54	0.03
(WY)	(1990)	(1990)	(2001)	(2000)	(2002)	(1984)	(2009)	(1996)	(1985)	(1985)	(1985)	(1984)

11023000 San Diego River at Fashion Valley, at San Diego, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1982 - 2010	
Annual total	7,281.64		15,486.74			
Annual mean	19.9		42.4		38.4	
Highest annual mean					125	1983
Lowest annual mean					7.39	2002
Highest daily mean	765	Dec 8	2,130	Jan 21	4,760	Mar 3, 1983
Lowest daily mean	0.62	Sep 17	0.80	Sep 3	0.00	Sep 7, 1984
Annual seven-day minimum	0.79	Sep 12	0.88	Aug 29	0.00	Sep 13, 1984
Maximum peak flow			2,640	Jan 21	9,430	Mar 6, 1995
Maximum peak stage			11.23	Jan 21	13.47	Mar 6, 1995
Annual runoff (ac-ft)	14,440		30,720		27,840	
10 percent exceeds	24		88		68	
50 percent exceeds	2.9		5.1		6.5	
90 percent exceeds	0.92		1.0		0.98	

