



Water-Data Report 2011

11015000 Sweetwater River near Descanso, CA

Sweetwater River Basin

LOCATION.--Lat 32°50'05", long 116°37'20" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.25, T.15 S., R.3 E., San Diego County, CA, Hydrologic Unit 18070304, near right bank, at Los Terrenitos Road Bridge, 0.7 mi downstream from unnamed tributary, and 1.3 mi south of Descanso.

DRAINAGE AREA.--45.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1905 to September 1927 (monthly discharge only for some months, published in WSP 1315-B), October 1956 to current year.

Prior to October 1927, records unadjusted for diversion. October 1956 to September 1977, both unadjusted records and combined records of river plus diversion (station 11015001) were published. No diversion since November 1976.

REVISED RECORDS.--WSP 1315-B: 1922 (instantaneous maximum discharge). WDR CA-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,269.24 ft above NGVD of 1929. Prior to June 25, 1927, nonrecording gages at several sites and datums, upstream about 0.1 mi. Diversion gage at site 0.3 mi upstream, October 1956 to September 1984, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,200 ft³/s, Feb. 16, 1927, gage height, 13.2 ft, from floodmarks, site and datum then in use, on basis of slope-area measurement of peak flow; no flow many days in most years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and (or) maximum (*), from rating curve extended above 1,150 ft³/s, on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 22	0815	*1,010	*9.03
Dec 30	0200	188	6.72
Feb 19	0630	435	7.79
Feb 26	1215	183	6.69
Mar 3	1915	119	6.26

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.27	2.0	37	11	83	39	16	9.8	3.5	1.6	0.17
2	0.00	0.19	1.9	32	10	81	37	15	9.7	3.2	1.3	0.15
3	0.00	0.22	1.8	46	10	103	36	16	9.6	3.2	1.1	0.15
4	0.00	0.25	1.8	39	10	91	38	15	9.4	3.1	0.92	0.13
5	0.00	0.33	1.6	33	10	69	32	14	9.1	4.9	0.86	0.17
6	0.00	0.41	1.6	29	9.9	60	32	14	9.2	5.4	0.87	0.35
7	0.00	0.59	1.6	27	9.7	70	31	15	9.2	5.3	0.87	0.43
8	0.00	1.1	1.6	25	10	60	41	15	8.9	3.8	0.81	0.36
9	0.00	1.3	1.5	23	9.4	49	39	17	8.6	3.3	0.77	0.26
10	0.00	1.2	1.6	21	9.2	46	36	16	8.3	2.8	0.75	0.24
11	0.00	1.2	1.6	20	8.9	43	33	15	7.9	2.6	0.87	0.24
12	0.00	1.2	1.5	19	8.6	41	31	14	7.7	2.6	0.94	0.22
13	0.00	1.1	1.5	18	8.7	39	29	13	7.5	2.6	0.84	0.28
14	0.00	1.1	1.5	17	8.7	37	28	13	7.3	2.7	0.75	0.40
15	0.00	1.1	1.6	16	8.8	36	26	13	7.0	2.7	0.69	0.56
16	0.00	1.1	1.9	15	12	34	25	13	6.7	2.6	0.61	0.58
17	0.00	1.2	2.2	15	15	32	24	15	6.5	2.5	0.54	0.56
18	0.00	1.1	4.2	14	17	31	24	22	6.3	2.3	0.46	0.51
19	0.45	1.2	5.7	14	259	30	23	20	6.3	2.2	0.45	0.40
20	3.2	2.8	23	13	146	31	22	16	5.9	2.0	0.48	0.32
21	1.6	9.3	72	13	77	74	22	15	5.3	1.9	0.52	0.27
22	0.88	6.2	e403	12	60	59	22	13	5.2	1.8	0.46	0.25
23	0.59	3.6	e134	12	52	50	21	13	4.8	1.7	0.41	0.23
24	0.45	3.3	49	11	47	62	21	12	4.6	1.7	0.35	0.25
25	0.93	3.0	32	11	44	57	20	12	4.5	1.8	0.30	0.33
26	1.2	2.5	29	10	104	57	20	11	4.2	1.6	0.28	0.42
27	0.57	2.3	23	9.8	85	56	19	11	4.0	1.6	0.36	0.41
28	0.28	3.0	20	10	84	51	18	11	3.8	1.6	0.45	0.35
29	0.20	2.5	72	9.8	---	47	18	12	3.8	1.5	0.36	0.32
30	0.26	2.1	116	10	---	44	17	11	3.6	1.5	0.27	0.33
31	0.35	---	50	12	---	41	---	10	---	1.7	0.21	---
Total	10.96	56.76	1,061.7	593.6	1,144.9	1,664	824	438	204.7	81.7	20.45	9.64
Mean	0.35	1.89	34.2	19.1	40.9	53.7	27.5	14.1	6.82	2.64	0.66	0.32
Max	3.2	9.3	403	46	259	103	41	22	9.8	5.4	1.6	0.58
Min	0.00	0.19	1.5	9.8	8.6	30	17	10	3.6	1.5	0.21	0.13
Ac-ft	22	113	2,110	1,180	2,270	3,300	1,630	869	406	162	41	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.37	1.28	4.85	12.8	26.5	33.8	17.9	7.30	2.80	0.81	0.41	0.27
Max	9.62	24.0	83.5	304	336	382	138	68.5	25.5	8.68	8.45	6.16
(WY)	(2005)	(1966)	(1967)	(1993)	(1980)	(1983)	(1983)	(1983)	(1983)	(1980)	(1983)	(1978)
Min	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.00
(WY)	(1957)	(1957)	(1957)	(1961)	(1961)	(1961)	(1961)	(1961)	(1959)	(1957)	(1957)	(1957)

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	Calendar Year 2010	Water Year 2011	Water Years 1957 - 2011	
Annual total	5,103.04	6,110.41		
Annual mean	14.0	16.7	9.00	
Highest annual mean			71.2	1983
Lowest annual mean			0.00	1961
Highest daily mean	403	Dec 22	403	Feb 20, 1980
Lowest daily mean	0.00	Aug 22	0.00	Oct 1, 1956
Annual seven-day minimum	0.00	Sep 1	0.00	Oct 1, 1956
Maximum peak flow			1,010	Mar 5, 1995
Maximum peak stage			9.03	13.22
Annual runoff (ac-ft)	10,120	12,120	6,520	
10 percent exceeds	35	45	13	
50 percent exceeds	2.6	6.3	0.33	
90 percent exceeds	0.00	0.27	0.00	

