

Water-Data Report 2011

11111500 Sespe Creek near Wheeler Springs, CA

Santa Clara River Basin

LOCATION.--Lat 34°34'40", long 119°15'25" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.30, T.6 N., R.22 W., Ventura County, CA, Hydrologic Unit 18070102, on right bank at Sespe Gorge, 1.6 mi upstream from Tule Creek, and 5 mi northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1947 to September 1997, October 2002 to current year.

WATER TEMPERATURE: Water years 1962-78.

SEDIMENT DATA: Water year 1956 (partial record).

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,498.65 ft NGVD of 1929 (levels by Ventura County Flood Control District). Prior to Oct. 1, 2002, at datum 2 ft higher at same site.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. See schematic diagram of Santa Clara River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s, Mar. 1, 1983, gage height, 15.02 ft, from rating curve extended above 3,000 ft³/s on basis of slope-area measurement of peak flow; no flow for many days in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and (or) maximum (*):

[a, crest stage gage reading]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 22	0930	643	5.22
Feb 19	0030	149	3.37
Mar 20	1100	*a1,210	*a6.46
Mar 25	2015	268	4.01
Apr 1	0700	148	3.43

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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	0.19	0.60	1.1	13	6.8	30	144	14	7.7	2.9	0.87	0.33
2	0.19	0.59	1.0	14	6.5	30	114	13	7.5	2.7	0.85	0.32
3	0.22	0.58	1.0	15	6.2	44	89	13	7.5	2.6	0.82	0.32
4	0.24	0.59	1.0	14	6.0	39	73	12	7.6	2.4	0.85	0.32
5	0.27	0.62	1.2	14	5.9	34	63	12	9.0	2.4	0.85	0.30
6	0.54	0.67	1.5	14	5.8	32	55	12	9.7	2.3	0.82	0.30
7	0.42	0.70	1.1	15	5.8	31	50	11	8.7	2.3	0.79	0.29
8	0.33	0.76	1.1	15	5.9	25	48	11	7.9	2.1	0.78	0.28
9	0.32	0.80	0.99	14	5.7	21	43	12	7.4	1.9	0.73	0.28
10	0.33	0.85	0.99	13	5.4	19	39	12	6.9	1.9	0.70	0.31
11	0.31	0.91	1.0	12	5.2	18	37	11	6.6	1.8	0.66	0.38
12	0.29	0.88	1.1	12	4.9	16	35	10	6.7	1.8	0.62	0.37
13	0.30	0.86	1.1	12	4.9	14	32	9.8	6.4	1.8	0.60	0.37
14	0.32	0.85	1.1	12	4.7	13	30	10	5.9	1.9	0.58	0.44
15	0.32	0.86	1.1	11	4.7	12	28	11	5.7	1.9	0.54	0.43
16	0.34	0.82	1.1	11	5.9	12	26	11	5.8	1.8	0.54	0.44
17	0.38	0.81	2.9	11	5.4	11	25	12	5.7	1.7	0.51	0.46
18	0.42	0.81	9.6	10	22	10	24	12	5.6	1.5	0.48	0.45
19	0.75	0.85	59	10	e74	e12	23	11	5.1	1.3	0.47	0.47
20	0.73	2.0	50	9.5	e34	e577	22	9.9	4.8	1.3	0.49	0.46
21	0.49	1.6	44	9.0	30	e283	21	9.4	4.6	1.3	0.50	0.43
22	0.50	1.2	359	8.8	27	175	20	8.8	4.4	1.3	0.46	0.43
23	0.48	1.2	95	8.3	25	148	20	8.8	4.1	1.2	0.41	0.43
24	0.46	1.2	42	8.3	24	125	19	8.6	4.0	1.1	0.38	0.51
25	0.48	1.1	29	8.0	31	241	18	8.1	3.9	1.1	0.36	0.51
26	0.47	1.1	31	7.7	64	201	17	7.8	3.8	1.0	0.37	0.52
27	0.47	1.1	21	7.4	42	196	16	7.9	3.4	1.0	0.38	0.52
28	0.50	1.0	18	7.2	34	213	15	7.7	3.4	1.00	0.32	0.51
29	0.54	1.0	21	7.0	---	184	15	8.1	3.4	0.98	0.29	0.49
30	0.65	1.0	18	7.0	---	172	15	8.0	3.3	0.89	0.30	0.54
31	0.59	---	14	7.1	---	165	---	7.8	---	0.90	0.32	---
Total	12.84	27.91	830.98	337.3	502.7	3,103	1,176	320.7	176.5	52.07	17.64	12.21
Mean	0.41	0.93	26.8	10.9	18.0	100	39.2	10.3	5.88	1.68	0.57	0.41
Max	0.75	2.0	359	15	74	577	144	14	9.7	2.9	0.87	0.54
Min	0.19	0.58	0.99	7.0	4.7	10	15	7.7	3.3	0.89	0.29	0.28
Ac-ft	25	55	1,650	669	997	6,150	2,330	636	350	103	35	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.86	4.37	8.41	37.6	63.3	50.4	24.5	8.06	2.97	1.32	0.68	0.77
Max	10.3	131	85.5	456	561	553	233	59.5	18.6	8.08	5.11	10.7
(WY)	(1984)	(1966)	(1966)	(1995)	(1993)	(1983)	(1958)	(1983)	(1983)	(1983)	(1983)	(1976)
Min	0.02	0.08	0.06	0.16	0.67	0.95	0.68	0.43	0.15	0.02	0.00	0.00
(WY)	(1962)	(1951)	(1991)	(1991)	(1951)	(1951)	(1951)	(1961)	(1951)	(1951)	(1951)	(1951)

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	Calendar Year 2010	Water Year 2011	Water Years 1948 - 2011	
Annual total	3,669.75	6,569.85		
Annual mean	10.1	18.0	16.7	
Highest annual mean			101	1993
Lowest annual mean			0.33	1951
Highest daily mean	359	Dec 22	577	Mar 20
Lowest daily mean	0.15	Sep 18	0.19	Oct 1
Annual seven-day minimum	0.17	Sep 15	0.30	Oct 1
Maximum peak flow			a1,210	Mar 20
Maximum peak stage			a6.46	Mar 20
Instantaneous low flow				
Annual runoff (ac-ft)	7,280	13,030	12,090	
10 percent exceeds	23	34	20	
50 percent exceeds	1.2	4.8	1.6	
90 percent exceeds	0.24	0.40	0.11	

a Crest stage gage reading.

