

11132500 Salsipuedes Creek near Lompoc, CA

Santa Ynez River Basin

LOCATION.--Lat 34°35'19", long 120°24'27" referenced to North American Datum of 1927, in sec.24, T.6 N., R.34 W., Santa Barbara County, CA, Hydrologic Unit 18060010, in Canada de Salsipuedes Grant, on right bank at highway bridge on Jalama Road, 0.4 mi downstream from El Jaro Creek, and 4.4 mi southeast of Lompoc.

DRAINAGE AREA.--47.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1941 to current year.

REVISED RECORDS.--WSP 2128: Drainage area.

GAGE.--Water-stage recorder and concrete low-water control. Elevation of gage is 220 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 2004, at datum 1 ft higher at same site.

REMARKS.--Records poor. Poor rating is due to accuracy and precision limitations at very low flow conditions, beaver activity, and continuing accumulations of debris in the low flow control. No regulation upstream from station. Small diversions for irrigation upstream from station. See schematic diagram of Santa Ynez River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s, Mar. 15, 1952, gage height, 20.80 ft; no flow at times in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 24	0430	*7.8	*2.31

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.09	0.16	1.5	1.5	0.99	0.95	1.0	0.28	0.05	0.05	0.04	0.04
2	0.09	0.18	1.7	1.4	1.0	1.1	1.00	0.26	0.05	e0.05	0.04	0.04
3	0.09	0.17	1.6	1.4	1.0	1.1	0.87	0.26	0.05	0.05	0.04	0.04
4	0.10	0.14	1.1	1.2	e1.1	1.1	0.83	0.23	e0.07	0.05	0.04	0.04
5	0.10	0.13	e0.84	1.2	e1.2	1.1	0.80	0.23	0.08	0.05	0.04	0.04
6	0.10	0.12	e0.76	1.6	e1.2	1.1	0.79	0.20	0.08	0.05	0.04	0.05
7	0.10	0.14	0.67	2.0	e1.2	1.3	0.79	0.22	0.08	0.04	0.04	0.05
8	0.10	0.15	0.64	1.5	e1.3	4.3	0.81	0.22	0.08	0.04	0.04	0.05
9	0.10	0.17	0.63	e1.3	1.2	2.1	0.83	0.24	0.08	0.04	0.04	0.05
10	0.11	0.18	0.62	e1.2	1.2	1.4	0.71	0.24	0.08	0.04	0.04	0.05
11	0.11	0.17	0.63	e1.1	1.1	1.3	0.64	0.21	0.07	0.04	e0.04	0.05
12	0.11	0.16	0.67	1.0	1.0	1.2	0.64	e0.19	0.07	0.04	0.04	0.04
13	0.11	0.18	0.74	0.98	1.1	1.2	0.72	e0.17	0.07	0.03	0.04	0.05
14	0.11	0.16	0.75	0.94	1.1	1.1	0.66	0.14	0.07	0.03	0.04	0.04
15	0.11	0.16	0.82	0.92	1.2	1.2	0.59	0.14	0.07	0.03	0.04	0.04
16	0.11	0.19	0.86	0.93	e1.2	1.1	0.58	0.13	0.07	0.03	0.04	0.04
17	0.11	1.1	0.80	0.95	e1.2	1.1	0.55	e0.11	0.07	0.03	0.04	0.04
18	0.10	1.3	0.72	0.95	e1.2	1.1	0.47	e0.09	e0.08	0.03	0.04	0.04
19	0.12	0.64	0.61	0.95	e1.2	1.1	0.45	0.08	0.09	0.03	0.04	0.04
20	0.16	0.50	0.55	0.94	1.1	0.97	0.40	0.08	0.08	0.03	0.04	0.04
21	0.16	0.44	0.53	0.90	1.00	0.90	0.37	0.09	0.08	0.03	0.04	0.04
22	0.16	0.40	0.59	0.88	0.83	0.91	0.36	0.07	0.07	0.03	0.04	0.04
23	0.14	0.38	0.83	0.88	0.91	0.88	0.33	0.06	0.07	0.03	0.04	0.04
24	0.14	0.36	5.1	0.93	0.95	0.84	0.34	0.06	0.08	0.03	0.04	0.04
25	0.15	0.35	2.7	e1.5	0.93	0.83	0.31	0.05	0.08	0.03	0.04	0.05
26	0.14	0.35	2.8	e2.0	0.97	0.80	0.33	0.05	0.08	0.04	0.04	0.04
27	0.13	0.36	2.5	e1.6	0.94	0.80	0.31	0.05	0.08	0.03	0.04	0.04
28	0.13	0.39	1.7	e1.3	0.92	0.81	0.27	0.05	0.06	0.03	0.04	0.04
29	0.13	0.58	2.3	e1.2	---	0.79	0.31	0.05	0.05	0.04	0.04	0.04
30	0.13	1.3	2.7	e1.2	---	0.78	0.30	0.05	0.05	0.04	0.04	0.03
31	0.15	---	1.9	1.0	---	0.86	---	0.04	---	0.04	0.04	---
Total	3.69	11.01	40.86	37.35	30.24	36.12	17.36	4.34	2.14	1.15	1.24	1.27
Mean	0.12	0.37	1.32	1.20	1.08	1.17	0.58	0.14	0.07	0.04	0.04	0.04
Max	0.16	1.3	5.1	2.0	1.3	4.3	1.0	0.28	0.09	0.05	0.04	0.05
Min	0.09	0.12	0.53	0.88	0.83	0.78	0.27	0.04	0.05	0.03	0.04	0.03
Ac-ft	7.3	22	81	74	60	72	34	8.6	4.2	2.3	2.5	2.5

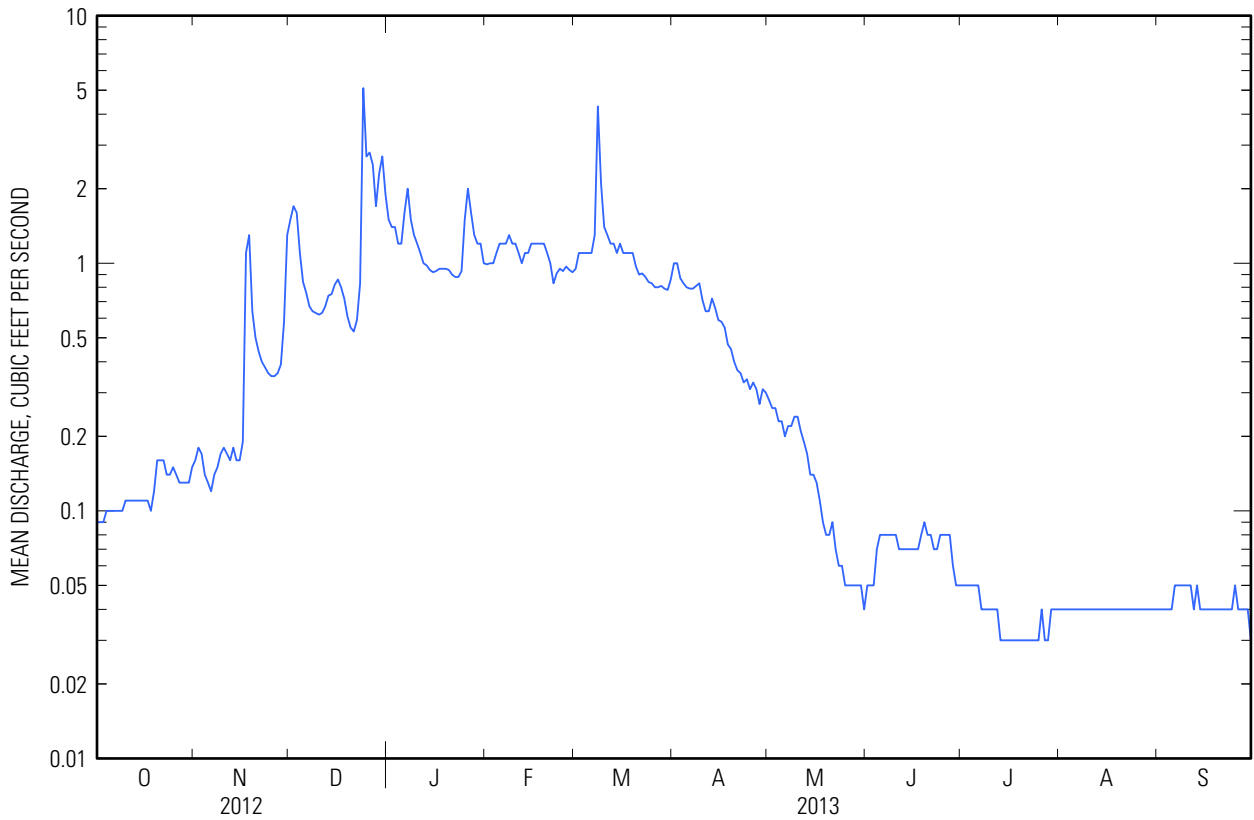
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.84	2.13	8.09	25.4	41.5	38.0	14.8	4.54	2.35	1.36	0.94	0.78
Max	4.26	48.6	102	281	474	545	158	33.1	12.7	8.69	5.77	4.51
(WY)	(1942)	(1966)	(1956)	(1995)	(1998)	(1995)	(1941)	(1998)	(1998)	(1998)	(1941)	(1941)
Min	0.00	0.04	0.05	0.08	0.33	0.36	0.21	0.00	0.00	0.00	0.01	0.01
(WY)	(1962)	(1991)	(1990)	(1991)	(1991)	(1990)	(1989)	(1961)	(1961)	(1961)	(1972)	(1972)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1941 - 2013	
Annual total	420.11		186.77			
Annual mean	1.15		0.51		11.4	
Highest annual mean					80.6	1995
Lowest annual mean					0.17	1990
Highest daily mean	8.7	Jan 23	5.1	Dec 24	5,390	Mar 11, 1995
Lowest daily mean	0.09	Oct 1	0.03	Jul 13	0.00	Jul 23, 1948
Annual seven-day minimum	0.10	Oct 1	0.03	Jul 13	0.00	Jul 23, 1948
Maximum peak flow			7.8	Dec 24	11,400	Mar 15, 1952
Maximum peak stage			2.31	Dec 24	20.80	Mar 15, 1952
Annual runoff (ac-ft)	833		370		8,230	
10 percent exceeds	2.5		1.2		11	
50 percent exceeds	0.60		0.17		1.4	
90 percent exceeds	0.12		0.04		0.10	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

CHEMICAL DATA: Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

pH: Water years 1982-83.

WATER TEMPERATURE: Water years 1982-98.

INSTRUMENTATION.--Water-quality monitor, water years 1982-83.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Barometric pressure, mm Hg (00025)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)
10-05-2012 1248	--	0.10	--	--	7.7	1,620	18.4	1,060	--
11-09-2012 1015	--	.16	--	--	7.7	1,620	12.4	1,110	--
12-13-2012 1045	--	.75	--	--	8.0	1,490	9.8	1,010	--
01-08-2013 1045	--	1.5	--	--	8.1	1,380	7.2	967	--
02-04-2013 1040	--	1.1	--	--	8.0	1,450	11.6	967	--
03-05-2013 1040	--	1.1	--	--	8.0	1,450	12.4	978	--
04-16-2013 1230	756	.63	10.1	102	8.1	1,460	15.5	999	963
05-01-2013 1140	--	.26	--	--	7.8	1,510	17.3	1,010	--
06-06-2013 1340	--	.08	--	--	7.8	1,620	18.5	1,040	--
07-02-2013 1005	--	.06	--	--	7.5	1,630	18.5	985	--
07-30-2013 0920	--	.04	--	--	7.5	1,610	17.5	984	--
09-05-2013 1245	--	.04	--	--	^a 8.4	1,600	22.6	954	--

^aLab value.

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Dissolved solids, water, filtered, tons per acre-foot (70303)	Hardness, water, mg/L as CaCO ₃ (00900)	Noncarbonate hardness, water, filtered, field, mg/L as CaCO ₃ (00904)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in equivalents of major cations (00932)	Sodium, water, filtered, mg/L (00930)
	10-05-2012 1248	1.44	--	--	--	--	--	--	--
11-09-2012 1015	1.51	--	--	--	--	--	--	--	--
12-13-2012 1045	1.38	--	--	--	--	--	--	--	--
01-08-2013 1045	1.31	--	--	--	--	--	--	--	--
02-04-2013 1040	1.32	--	--	--	--	--	--	--	--
03-05-2013 1040	1.33	--	--	--	--	--	--	--	--
04-16-2013 1230	1.36	574	191	134	58.3	2.52	2.01	29	110
05-01-2013 1140	1.37	--	--	--	--	--	--	--	--
06-06-2013 1340	1.42	--	--	--	--	--	--	--	--
07-02-2013 1005	1.34	--	--	--	--	--	--	--	--
07-30-2013 0920	1.34	--	--	--	--	--	--	--	--
09-05-2013 1245	1.30	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00452)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
	10-05-2012 1248	--	--	--	--	--	--	--	--
11-09-2012 1015	--	--	--	--	--	--	--	--	--
12-13-2012 1045	--	--	--	--	--	--	--	--	--
01-08-2013 1045	--	--	--	--	--	--	--	--	--
02-04-2013 1040	--	--	--	--	--	--	--	--	--
03-05-2013 1040	--	--	--	--	--	--	--	--	--
04-16-2013 1230	383	459	3.6	130	.46	26.9	269	.010	< .040
05-01-2013 1140	--	--	--	--	--	--	--	--	--
06-06-2013 1340	--	--	--	--	--	--	--	--	--
07-02-2013 1005	--	--	--	--	--	--	--	--	--
07-30-2013 0920	--	--	--	--	--	--	--	--	--
09-05-2013 1245	--	--	--	--	--	--	--	--	--

11132500 Salsipuedes Creek near Lompoc, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 4 of 4

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; P, phosphorus; SiO₂, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Sample date-time	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Iron, water, filtered, µg/L (01046)	Manganese, water, filtered, µg/L (01056)	Boron, water, filtered, µg/L (01020)
10-05-2012 1248	--	--	--	--	--
11-09-2012 1015	--	--	--	--	--
12-13-2012 1045	--	--	--	--	--
01-08-2013 1045	--	--	--	--	--
02-04-2013 1040	--	--	--	--	--
03-05-2013 1040	--	--	--	--	--
04-16-2013 1230	<.001	.104	9.6	77.5	764
05-01-2013 1140	--	--	--	--	--
06-06-2013 1340	--	--	--	--	--
07-02-2013 1005	--	--	--	--	--
07-30-2013 0920	--	--	--	--	--
09-05-2013 1245	--	--	--	--	--

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[%, percent; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data]

Sample date-time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Depth to bottom at sample location, ft (81903)	Sampling depth, ft (00003)	Stream width, ft (00004)	Location in cross section, distance from left bank looking downstream, ft (00009)
04-16-2013 1240	756	10.3	105	8.1	1,460	15.8	.90	.45	5.60	4.60
04-16-2013 1241	756	10.2	104	8.1	1,460	15.6	.98	.49	5.60	4.10
04-16-2013 1242	756	10.1	102	8.1	1,460	15.5	1.05	.52	5.60	3.60
04-16-2013 1243	756	10.1	102	8.1	1,460	15.4	1.08	.54	5.60	3.10
04-16-2013 1244	756	10.0	101	8.1	1,460	15.4	1.10	.55	5.60	2.60
04-16-2013 1245	756	10.0	101	8.1	1,460	15.4	1.05	.52	5.60	2.10
04-16-2013 1246	756	10.0	101	8.1	1,460	15.5	1.02	.51	5.60	1.60
04-16-2013 1247	756	10.1	102	8.1	1,460	15.6	1.05	.52	5.60	1.10
04-16-2013 1248	756	10.1	103	8.1	1,460	15.8	.81	.40	5.60	.60

Note: Instantaneous discharge at the time of cross-sectional measurement Apr. 16, 0.6 ft³/s.