

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 fair through March and poor for the remainder of the water year. Poor rating is due to accuracy and precision limitations at very low flow conditions, 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)
Nov 20	1315	*39	*2.61

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.3	1.5	e1.7	1.9	2.4	2.3	2.9	1.1	0.59	0.41	0.14	0.12
2	1.3	1.5	1.7	1.8	2.4	2.3	2.4	1.1	0.62	0.42	0.14	0.12
3	1.3	1.5	1.7	1.8	2.4	2.2	2.0	1.0	0.59	0.48	0.15	0.12
4	1.5	1.7	1.8	1.8	2.3	2.2	1.9	0.93	0.58	0.48	0.15	0.13
5	3.9	1.7	1.8	1.8	2.3	2.1	1.8	0.89	0.59	0.51	0.15	0.14
6	3.5	2.1	1.8	1.9	2.4	2.2	1.7	0.81	0.57	0.51	0.16	0.14
7	2.0	2.0	1.8	1.9	2.6	2.2	1.7	0.75	0.51	0.50	0.16	0.14
8	1.7	1.7	1.9	1.8	2.7	1.9	1.7	0.71	0.52	0.47	0.17	0.14
9	1.6	1.7	1.9	1.8	2.5	1.8	1.6	0.64	0.47	0.44	0.19	0.14
10	1.6	1.7	1.9	1.8	2.4	1.8	1.7	0.61	0.43	0.41	0.18	0.14
11	1.6	2.0	1.9	1.8	2.5	1.9	8.1	0.62	0.42	0.38	0.18	0.14
12	1.5	3.7	2.2	1.8	2.5	1.9	3.7	0.66	0.46	0.32	0.19	0.16
13	1.4	2.4	2.4	1.8	2.5	1.9	6.7	0.69	0.49	0.30	0.18	0.15
14	1.3	2.1	2.1	1.8	2.6	1.8	6.6	0.72	0.53	0.27	0.17	0.15
15	1.3	2.0	2.0	1.8	2.5	1.8	3.4	0.72	0.60	0.26	0.18	0.15
16	1.5	2.0	2.0	1.8	2.3	1.8	e2.6	0.69	0.60	0.32	0.18	0.13
17	1.6	2.0	2.0	1.8	2.3	8.4	2.1	0.71	0.55	0.30	0.18	0.12
18	1.6	2.0	1.9	1.8	2.3	7.0	1.9	0.70	0.49	0.28	0.16	0.11
19	1.6	2.1	2.0	1.8	2.4	4.2	1.7	0.68	0.48	0.26	0.15	0.11
20	1.6	13	2.0	1.8	2.4	2.8	1.6	0.62	0.47	0.23	0.13	0.11
21	1.7	12	1.9	7.0	2.3	2.4	1.4	0.62	0.45	0.22	0.12	0.11
22	1.6	4.0	1.9	3.7	2.3	2.3	1.3	0.61	0.43	0.22	0.11	0.11
23	1.5	e3.2	1.8	8.7	2.2	2.2	1.3	0.60	0.44	0.19	0.10	0.10
24	1.5	e2.5	1.8	6.3	2.2	2.1	1.4	0.57	0.43	0.19	0.12	0.10
25	1.6	e2.3	1.8	3.3	2.2	4.9	1.5	0.57	0.42	0.18	0.13	0.10
26	1.7	e2.0	1.9	2.8	2.2	6.8	2.6	0.60	0.39	0.15	0.14	0.11
27	1.6	e1.9	1.9	2.7	2.2	3.3	1.9	0.60	0.35	0.14	0.15	0.11
28	1.5	e1.8	1.9	2.5	2.2	2.7	1.3	0.63	0.35	0.13	0.15	0.11
29	1.4	e1.7	1.9	2.4	2.2	2.5	1.1	0.57	0.37	0.15	0.14	0.11
30	1.4	e1.7	1.9	2.4	---	2.3	1.1	0.60	0.39	0.16	0.13	0.11
31	1.4	---	1.9	2.4	---	2.3	---	0.58	---	0.15	0.13	---
Total	51.6	83.5	59.1	80.5	68.7	88.3	72.7	21.90	14.58	9.43	4.71	3.73
Mean	1.66	2.78	1.91	2.60	2.37	2.85	2.42	0.71	0.49	0.30	0.15	0.12
Max	3.9	13	2.4	8.7	2.7	8.4	8.1	1.1	0.62	0.51	0.19	0.16
Min	1.3	1.5	1.7	1.8	2.2	1.8	1.1	0.57	0.35	0.13	0.10	0.10
Ac-ft	102	166	117	160	136	175	144	43	29	19	9.3	7.4

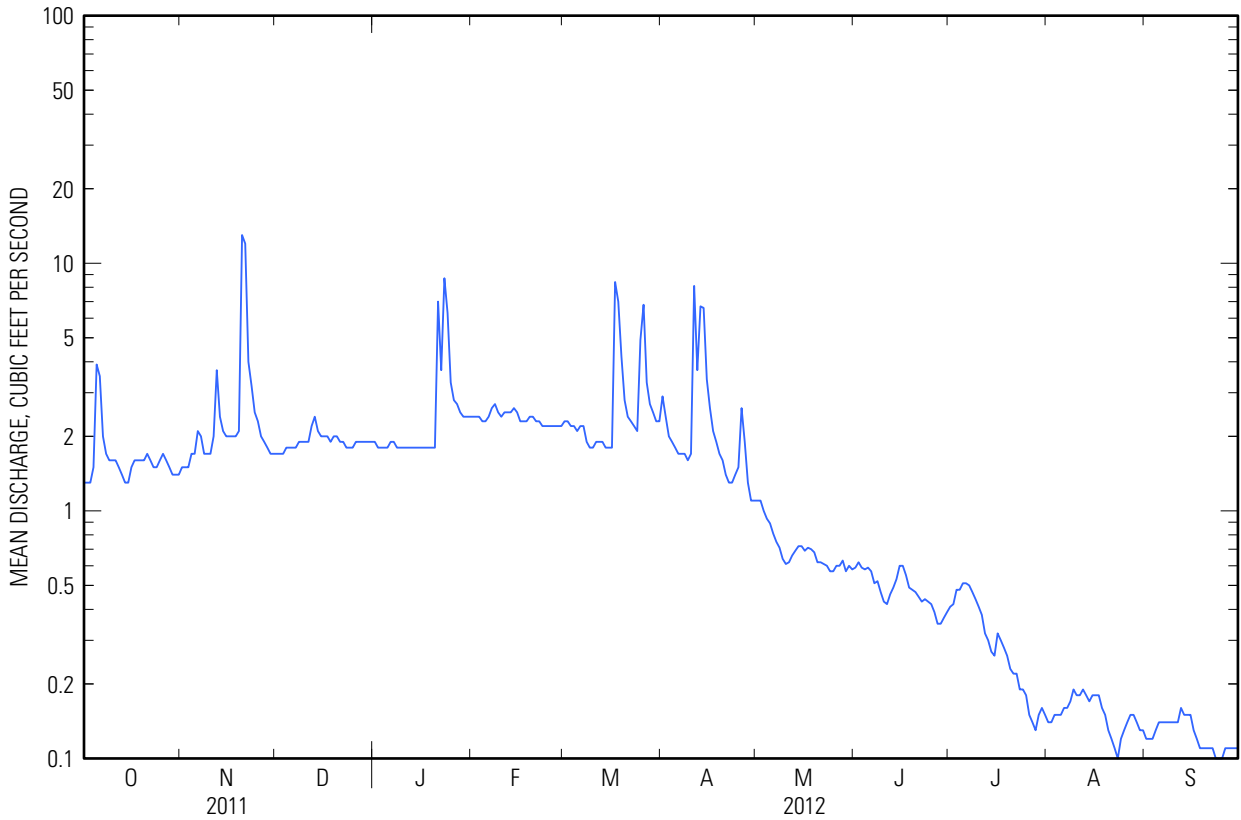
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.85	2.15	8.19	25.8	42.0	38.5	15.0	4.60	2.38	1.38	0.96	0.79
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 2011		Water Year 2012		Water Years 1941 - 2012	
Annual total	6,363.83		558.75			
Annual mean	17.4		1.53		11.5	
Highest annual mean					80.6	1995
Lowest annual mean					0.17	1990
Highest daily mean	1,630	Mar 20	13	Nov 20	5,390	Mar 11, 1995
Lowest daily mean	0.70	Sep 8	0.10	Aug 23	0.00	Jul 23, 1948
Annual seven-day minimum	0.82	Sep 7	0.11	Sep 19	0.00	Jul 23, 1948
Maximum peak flow			39	Nov 20	11,400	Mar 15, 1952
Maximum peak stage			2.61	Nov 20	20.80	Mar 15, 1952
Annual runoff (ac-ft)	12,620		1,110		8,340	
10 percent exceeds	20		2.5		12	
50 percent exceeds	3.6		1.6		1.5	
90 percent exceeds	1.3		0.14		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 2011 TO SEPTEMBER 2012

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)
10-04-2011 1025	--	1.6	--	--	8.1	1,380	16.8	920	--
11-01-2011 1100	--	1.5	--	--	8.2	1,360	13.7	946	--
12-01-2011 1055	--	1.8	--	--	8.3	1,390	9.8	962	--
01-12-2012 1215	--	1.8	--	--	8.2	1,370	7.7	923	--
02-23-2012 1200	--	2.1	--	--	8.1	1,360	13.2	863	--
03-27-2012 1130	--	3.3	--	--	8.1	1,180	12.0	789	--
04-10-2012 1545	752	1.6	10.0	101	8.2	1,380	15.0	961	910
05-10-2012 1200	--	.63	--	--	7.8	1,380	17.2	940	--
06-19-2012 1015	--	.52	--	--	7.8	1,450	16.7	967	--
07-25-2012 1435	--	.18	--	--	7.6	1,510	21.3	1,040	--
08-28-2012 1435	--	.14	--	--	7.6	1,560	23.1	1,070	--
09-19-2012 1310	--	.12	--	--	7.5	1,630	19.6	1,040	--

11132500 Salsipuedes Creek near Lompoc, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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)	Noncarbonate hardness,		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)
		Hardness, water, mg/L as CaCO ₃ (00900)	water, filtered, field, mg/L as CaCO ₃ (00904)						
10-04-2011 1025	1.25	--	--	--	--	--	--	--	--
11-01-2011 1100	1.29	--	--	--	--	--	--	--	--
12-01-2011 1055	1.31	--	--	--	--	--	--	--	--
01-12-2012 1215	1.26	--	--	--	--	--	--	--	--
02-23-2012 1200	1.17	--	--	--	--	--	--	--	--
03-27-2012 1130	1.07	--	--	--	--	--	--	--	--
04-10-2012 1545	1.31	557	194	136	52.8	2.04	1.95	29	106
05-10-2012 1200	1.28	--	--	--	--	--	--	--	--
06-19-2012 1015	1.31	--	--	--	--	--	--	--	--
07-25-2012 1435	1.41	--	--	--	--	--	--	--	--
08-28-2012 1435	1.46	--	--	--	--	--	--	--	--
09-19-2012 1310	1.42	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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)	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)	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)
11-01-2011 1100	--	--	--	--	--	--	--	--	--
12-01-2011 1055	--	--	--	--	--	--	--	--	--
01-12-2012 1215	--	--	--	--	--	--	--	--	--
02-23-2012 1200	--	--	--	--	--	--	--	--	--
03-27-2012 1130	--	--	--	--	--	--	--	--	--
04-10-2012 1545	363	110	.57	25.0	259	<.010	<.040	<.001	.084
05-10-2012 1200	--	--	--	--	--	--	--	--	--
06-19-2012 1015	--	--	--	--	--	--	--	--	--
07-25-2012 1435	--	--	--	--	--	--	--	--	--
08-28-2012 1435	--	--	--	--	--	--	--	--	--
09-19-2012 1310	--	--	--	--	--	--	--	--	--

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WATER-QUALITY DATA

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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	Iron, water, filtered, μg/L (01046)	Manganese, water, filtered, μg/L (01056)	Boron, water, filtered, μg/L (01020)
10-04-2011 1025	--	--	--
11-01-2011 1100	--	--	--
12-01-2011 1055	--	--	--
01-12-2012 1215	--	--	--
02-23-2012 1200	--	--	--
03-27-2012 1130	--	--	--
04-10-2012 1545	13.9	16.6	666
05-10-2012 1200	--	--	--
06-19-2012 1015	--	--	--
07-25-2012 1435	--	--	--
08-28-2012 1435	--	--	--
09-19-2012 1310	--	--	--

CROSS SECTION ANALYSES

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[%, percent; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

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)
04-10-2012 1535	752	9.9	100	8.2	1,380	15.2	.38	.19	7.80	.80
04-10-2012 1536	752	9.9	101	8.2	1,380	15.2	.50	.25	7.80	1.60
04-10-2012 1537	752	9.9	101	8.2	1,380	15.2	.61	.30	7.80	2.40
04-10-2012 1538	752	9.9	101	8.2	1,380	15.2	.66	.33	7.80	3.20
04-10-2012 1539	752	10.0	101	8.2	1,380	15.2	.67	.34	7.80	4.00
04-10-2012 1540	752	10.0	101	8.2	1,380	15.2	.56	.28	7.80	4.80
04-10-2012 1541	752	10.0	101	8.2	1,380	15.2	.55	.27	7.80	4.60
04-10-2012 1542	752	10.0	101	8.2	1,380	15.2	.51	.26	7.80	6.40
04-10-2012 1543	752	10.0	102	8.2	1,380	15.4	.47	.24	7.80	7.20

Note: Instantaneous discharge at the time of cross-sectional measurement: Apr.10, 1.6 ft³/s.