



Water-Data Report 2010

11141050 Orcutt Creek near Orcutt, CA

Santa Maria River Basin

LOCATION.--Lat 34°53'01", long 120°29'38" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.6, T.9 N., R.34 W., Santa Barbara County, CA, Hydrologic Unit 18060008, on right bank, 10 ft upstream from Black Road Bridge, 0.2 mi northeast of State Highway 1, and 3.0 mi northwest of Orcutt.

DRAINAGE AREA.--18.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1982 to September 1992, October 1994 to current year.

REVISED RECORDS.--WDR CA-2005: 2001 (instantaneous maximum discharge).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 160 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. Natural flow affected by pumping and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s, Mar. 5, 2001, gage height, 10.33 ft, from slope-area measurement, maximum gage height, 11.07 ft, Mar. 10, 1995; no flow at times in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft³/s and (or) maximum (*):

[e, estimated, #, used CSG pin]

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 14	0530	46	2.85
Dec 7	1615	49	2.92
Dec 12	Unk	e51	Unknown
Jan 21	1215	*189	*#3.61
Jan 26	Unk	e61	Unknown
Feb 6	Unk	e85	Unknown
Feb 9	1045	34	2.75
Feb 27	0015	92	3.23
Apr 11	2115	62	3.02

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[*e*, estimated]

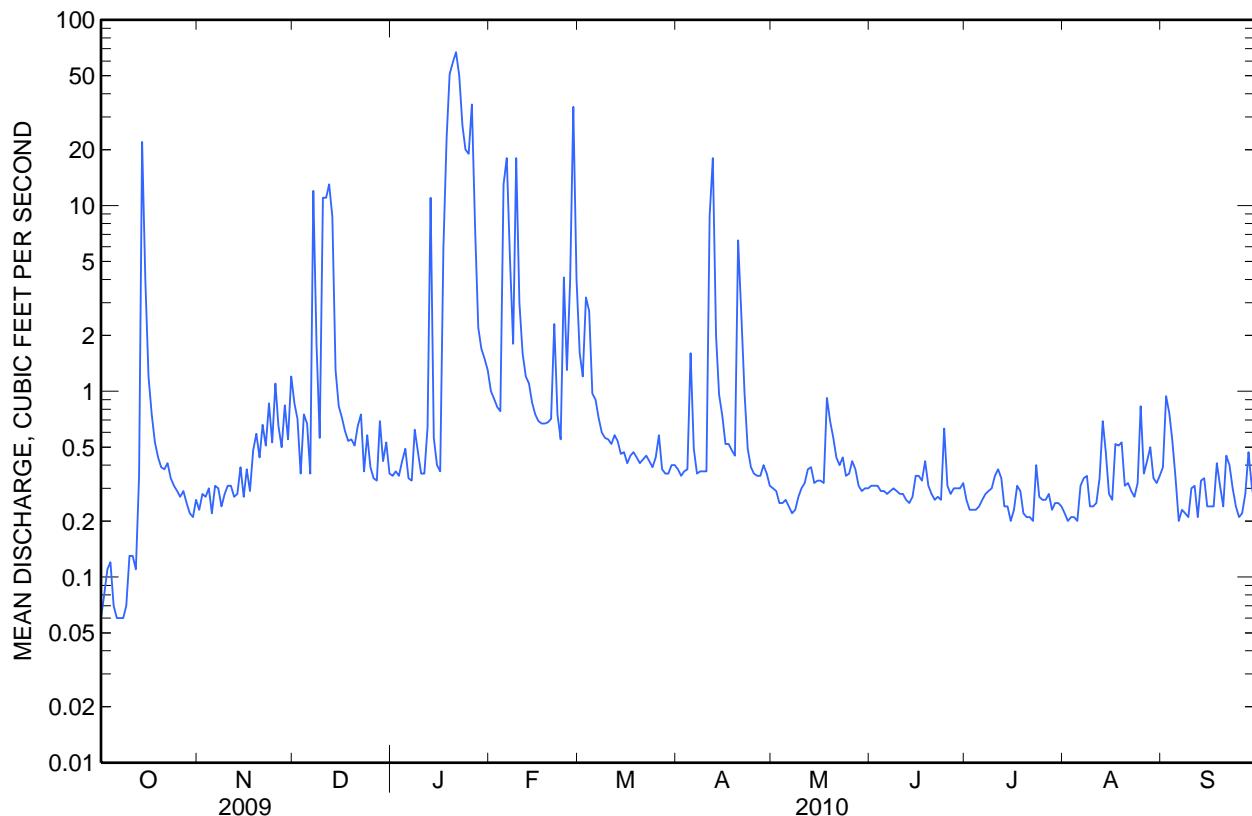
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.06	0.23	0.86	0.35	e1.0	1.6	0.38	0.30	0.31	0.26	0.22	0.39
2	0.08	0.28	0.71	0.37	0.91	1.2	0.35	0.29	0.31	0.23	0.20	0.94
3	0.11	0.27	0.36	0.35	0.82	3.2	0.37	0.25	0.31	0.23	0.21	0.76
4	0.12	0.30	0.75	0.42	0.78	2.7	0.38	0.25	0.29	0.23	0.21	0.54
5	0.07	0.22	0.67	0.49	e13	0.97	1.6	0.26	0.29	0.24	0.20	0.34
6	0.06	0.31	0.36	0.34	e18	0.90	0.49	0.24	0.28	0.26	0.31	0.20
7	0.06	0.30	e12	0.33	e5.2	0.72	0.36	0.22	0.29	0.28	0.34	0.23
8	0.06	0.24	e1.8	0.62	e1.8	0.60	0.37	0.23	0.30	0.29	0.35	0.22
9	0.07	0.28	e0.56	0.47	e18	0.56	0.37	0.27	0.29	0.30	0.24	0.21
10	0.13	0.31	e11	0.36	3.0	0.55	0.37	0.30	0.28	0.35	0.24	0.30
11	0.13	0.31	e11	0.36	1.6	0.52	8.8	0.32	0.28	0.38	0.25	0.31
12	0.11	0.27	e13	0.64	1.2	0.58	18	0.38	0.26	0.34	0.34	0.21
13	0.35	0.28	e8.7	e11	1.1	0.54	2.0	0.39	0.25	0.24	0.69	0.33
14	22	0.39	1.3	e0.56	0.87	0.46	0.96	0.32	0.27	0.24	0.47	0.34
15	4.0	0.27	0.83	0.40	0.75	0.47	0.74	0.33	0.35	0.20	0.28	0.24
16	1.2	0.38	0.72	0.37	0.69	0.41	0.52	0.33	0.35	0.23	0.26	0.24
17	0.75	0.29	0.61	e5.9	0.67	0.45	0.52	0.32	0.33	0.31	0.52	0.24
18	0.53	0.48	0.54	e23	0.67	0.47	0.48	0.92	0.42	0.29	0.51	0.41
19	0.44	0.59	0.55	e51	0.68	0.44	0.45	0.69	0.31	0.22	0.53	0.31
20	0.39	0.44	0.51	e59	0.71	0.41	6.5	0.56	0.28	0.21	0.31	0.24
21	0.38	0.66	0.65	e67	2.3	0.43	2.6	0.44	0.26	0.21	0.32	0.45
22	0.41	0.51	0.75	e50	0.75	0.45	0.98	0.40	0.27	0.20	0.29	0.40
23	0.34	0.86	0.37	e27	0.55	0.42	0.49	0.44	0.26	0.40	0.27	0.30
24	0.31	0.53	0.58	20	4.1	0.39	0.39	0.35	0.63	0.27	0.32	0.24
25	0.29	1.1	0.39	19	1.3	0.44	0.36	0.36	0.31	0.26	0.83	0.21
26	0.27	0.65	0.34	e35	3.9	0.58	0.35	0.42	0.28	0.26	0.36	0.22
27	e0.29	0.50	0.33	e7.6	34	0.38	0.35	0.38	0.30	0.28	0.42	0.28
28	e0.25	0.84	0.69	e2.2	4.0	0.36	0.40	0.31	0.30	0.23	0.50	0.47
29	0.22	0.55	0.42	e1.7	---	0.36	0.36	0.29	0.30	0.25	0.34	e0.31
30	0.21	1.2	0.53	e1.5	---	0.40	0.31	0.30	0.32	0.25	0.32	e0.24
31	0.26	---	0.36	e1.3	---	0.40	---	0.30	---	0.24	0.35	---
Total	33.95	13.84	72.24	388.63	122.35	22.36	50.60	11.16	9.28	8.18	11.00	10.12
Mean	1.10	0.46	2.33	12.5	4.37	0.72	1.69	0.36	0.31	0.26	0.35	0.34
Max	22	1.2	13	67	34	3.2	18	0.92	0.63	0.40	0.83	0.94
Min	0.06	0.22	0.33	0.33	0.55	0.36	0.31	0.22	0.25	0.20	0.20	0.20
Ac-ft	67	27	143	771	243	44	100	22	18	16	22	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.20	0.58	1.02	4.06	7.81	9.88	1.64	0.42	0.19	0.16	0.16	0.13
Max	1.10	3.76	3.10	27.5	76.7	120	12.6	3.04	0.43	0.66	0.74	0.40
(WY) (2010)	(2002)	(2005)	(1995)	(1998)	(1995)	(1995)	(2006)	(1998)	(1998)	(2008)	(2008)	(2007)
Min	0.00	0.00	0.02	0.04	0.07	0.06	0.02	0.03	0.01	0.00	0.00	0.01
(WY)	(1995)	(1995)	(1996)	(1985)	(1984)	(1989)	(1990)	(1986)	(1996)	(1996)	(1992)	(1996)

11141050 Orcutt Creek near Orcutt, CA—Continued**SUMMARY STATISTICS**

	Calendar Year 2009	Water Year 2010	Water Years 1983 - 2010	
Annual total	355.05	753.71		
Annual mean	0.97	2.06	2.16	
Highest annual mean			13.8	1995
Lowest annual mean			0.09	1990
Highest daily mean	28 Feb 16	67 Jan 21	1,460	Mar 10, 1995
Lowest daily mean	0.06 Oct 1	0.06 Oct 1	0.00	Oct 1, 1982
Annual seven-day minimum	0.08 Oct 3	0.08 Oct 3	0.00	Oct 1, 1982
Maximum peak flow		189 Jan 21	2,100	Mar 5, 2001
Maximum peak stage		3.61 Jan 21	11.07	Mar 10, 1995
Annual runoff (ac-ft)	704	1,490	1,570	
10 percent exceeds	0.91	2.1	1.2	
50 percent exceeds	0.34	0.37	0.14	
90 percent exceeds	0.13	0.23	0.00	



11141050 Orcutt Creek near Orcutt, CA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.—Water years 1983-92, 1994 to current year.

CHEMICAL DATA: Water years 1983-92, 1994 to current year.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

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; E, estimated]

Sample date-time	Barometric pressure, mm Hg (00025)	Discharge, instantane-ous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, field, unfiltered, standard units (00400)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera-ture, water, °C (00010)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Dissolved solids, water, filtered, tons per acre-foot (70303)
10-28-2009 1140	--	.22	--	--	8.0	3,000	11.4	2,150	--	2.92
11-12-2009 1100	--	.28	--	--	7.8	3,060	13.0	2,150	--	2.92
12-11-2009 1317	--	4.1	--	--	7.2	746	11.6	495	--	.67
01-13-2010 1455	--	E 4.6	--	--	7.2	474	15.7	294	--	.40
01-18-2010 1550	--	33	--	--	6.9	295	13.5	179	--	.24
02-04-2010 1010	--	.77	--	--	7.0	2,840	10.7	1,990	--	2.71
03-05-2010 1250	--	.85	--	--	7.6	1,980	13.0	1,380	--	1.88
04-16-2010 1100	760	.53	10.0	100	7.9	2,190	14.9	1,530	1,430	2.08
05-06-2010 1330	--	.25	--	--	8.4	2,590	18.0	1,850	--	2.51
06-10-2010 1000	--	.28	--	--	7.6	2,500	15.0	1,740	--	2.37
07-16-2010 1240	--	.23	--	--	7.6	2,550	18.4	1,790	--	2.43
08-10-2010 1520	--	.24	--	--	8.0	2,380	18.0	1,780	--	2.42
09-15-2010 1300	--	.23	--	--	8.3	2,490	16.3	1,760	--	2.39

11141050 Orcutt Creek near Orcutt, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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; E, estimated]

Sample date-time							Sodium fraction of cations, water, percent in equivalents of major cations (00932)	Sodium, water, filtered, mg/L (00930)	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)
	Non-carbonate hardness, water, filtered, mg/L as CaCO ₃ (00900)	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)				
10-28-2009 1140	--	--	--	--	--	--	--	--	--	--
11-12-2009 1100	--	--	--	--	--	--	--	--	--	--
12-11-2009 1317	--	--	--	--	--	--	--	--	--	--
01-13-2010 1455	--	--	--	--	--	--	--	--	--	--
01-18-2010 1550	--	--	--	--	--	--	--	--	--	--
02-04-2010 1010	--	--	--	--	--	--	--	--	--	--
03-05-2010 1250	--	--	--	--	--	--	--	--	--	--
04-16-2010 1100	615	395	137	66.0	6.10	4.16	45	237	222	268
05-06-2010 1330	--	--	--	--	--	--	--	--	--	--
06-10-2010 1000	--	--	--	--	--	--	--	--	--	--
07-16-2010 1240	--	--	--	--	--	--	--	--	--	--
08-10-2010 1520	--	--	--	--	--	--	--	--	--	--
09-15-2010 1300	--	--	--	--	--	--	--	--	--	--

11141050 Orcutt Creek near Orcutt, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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; E, estimated]

Sample date-time	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Nitrate					Manga- nese, water, filtered, µg/L (01056)	
				Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos- phate, water, filtered, mg/L as P (00671)		
10-28-2009 1140	--	--	--	--	--	--	--	--	--	
11-12-2009 1100	--	--	--	--	--	--	--	--	--	
12-11-2009 1317	--	--	--	--	--	--	--	--	--	
01-13-2010 1455	--	--	--	--	--	--	--	--	--	
01-18-2010 1550	--	--	--	--	--	--	--	--	--	
02-04-2010 1010	--	--	--	--	--	--	--	--	--	
03-05-2010 1250	--	--	--	--	--	--	--	--	--	
04-16-2010 1100	251	.44	28.0	493	.054	17.6	.167	.735	19	157
05-06-2010 1330	--	--	--	--	--	--	--	--	--	--
06-10-2010 1000	--	--	--	--	--	--	--	--	--	--
07-16-2010 1240	--	--	--	--	--	--	--	--	--	--
08-10-2010 1520	--	--	--	--	--	--	--	--	--	--
09-15-2010 1300	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO
SEPTEMBER 2010

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; E,
estimated]

Sample date-time	Boron, water, filtered, µg/L (01020)
10-28-2009 1140	--
11-12-2009 1100	--
12-11-2009 1317	--
01-13-2010 1455	--
01-18-2010 1550	--
02-04-2010 1010	--
03-05-2010 1250	--
04-16-2010 1100	468
05-06-2010 1330	--
06-10-2010 1000	--
07-16-2010 1240	--
08-10-2010 1520	--
09-15-2010 1300	--

11141050 Orcutt Creek near Orcutt, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

[%; 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)	Specific conduc-			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)
				pH, water, unfiltered, field, standard units (00400)	unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)				
12-11-2009 1313	--	--	--	7.2	743	11.6	.90	.45	5.70	1.00
12-11-2009 1315	--	--	--	7.2	746	11.6	.79	.40	5.70	2.00
12-11-2009 1317	--	--	--	7.2	746	11.6	1.05	.52	5.70	3.00
12-11-2009 1319	--	--	--	7.2	751	11.6	1.10	.55	5.70	4.00
12-11-2009 1321	--	--	--	7.2	752	11.6	1.00	.50	5.70	5.00
04-16-2010 1046	760	10.1	100	7.9	2,190	14.9	.38	.19	5.20	1.00
04-16-2010 1047	760	10.0	100	7.9	2,190	14.9	.42	.21	5.20	2.00
04-16-2010 1048	760	10.0	100	7.9	2,190	14.9	.42	.21	5.20	3.00
04-16-2010 1049	760	10.0	100	7.9	2,190	14.9	.45	.22	5.20	4.00
04-16-2010 1050	760	10.0	100	7.9	2,190	14.9	.30	.15	5.20	5.00
07-16-2010 1240	--	--	--	7.6	2,550	18.4	.26	.13	2.40	.60
07-16-2010 1243	--	--	--	7.6	2,550	18.4	.35	.17	2.40	1.20
07-16-2010 1245	--	--	--	7.6	2,550	18.4	.23	.12	2.40	1.80

Note: Instantaneous discharge at time of cross-sectional measurements: Dec. 11, 4.1 ft³/s, Apr. 16, 0.5 ft³/s, July 16, 0.2 ft³/s.