Water-Data Report 2007

11136800 Cuyama River below Buckhorn Canyon, near Santa Maria, CA

Santa Maria River Basin

LOCATION.--Lat 35°01′19″, long 120°13′39″ referenced to North American Datum of 1927, in SW ¼ sec.14, T.11 N., R.32 W., San Luis Obispo County, CA, Hydrologic Unit 18060007, on left bank, 270 ft downstream of bridge on State Highway 166, 1.5 mi downstream from Buckhorn Canyon, 10 mi upstream from Twitchell Reservoir, and 13 mi northeast of Santa Maria.

DRAINAGE AREA.--886 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1903 to December 1905 (published as "Santa Maria River near Santa Maria"), October 1959 to current year. Monthly discharge only for October 1903 and July 1904. Yearly estimate for water year 1941 (incomplete), published in WSP 1315-B.

REVISED RECORDS.--WDR CA-71-1: Drainage area. WDR CA-77-1: 1976.

GAGE.--Water-stage recorder. Elevation of gage is 760 ft above NGVD of 1929, from topographic map. Prior to October 1959, nonrecording gage at different site and datum.

REMARKS.--Records good. No regulation upstream from station. Pumping from wells along stream for irrigation of several thousand acres in Upper Cuyama Valley.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,200 ft^3/s, Feb. 23, 1998, gage height, 14.76 ft, from rating curve extended above 4,900 ft^3/s, on basis of slope-area measurement at gage height 14.76 ft; no flow at times in most years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 28	0515	*4.3	*4.77

11136800 Cuyama River below Buckhorn Canyon, near Santa Maria, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.28	0.01	0.00	0.00	0.00	2.7	0.00	0.00	0.00	0.00	0.00	0.00
2	0.22	0.00	0.00	0.00	0.00	1.8	0.00	0.00	0.00	0.00	0.00	0.00
3	0.15	0.00	0.00	0.00	0.00	1.3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.15	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00
5	0.17	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00
6	0.13	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00
7	0.09	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00
8	0.07	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00
9	0.05	0.00	0.12	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
10	0.06	0.00	0.42	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00
11	0.07	0.00	0.07	0.00	0.17	0.42	0.00	0.00	0.00	0.00	0.00	0.00
12	0.06	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00
13	0.19	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
14	0.20	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00
15	0.15	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00
16	0.13	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
17	0.11	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
18	0.09	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
19	0.09	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.09	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
21	0.06	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00
22	0.04	0.00	0.00	0.00	0.12	0.21	0.00	0.00	0.00	0.00	0.00	0.00
23	0.05	0.00	0.00	0.00	0.11	0.13	0.00	0.00	0.00	0.00	0.00	0.00
24	0.03	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
25	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
27	0.01	0.00	0.11	0.00	1.4	0.12	0.00	0.00	0.00	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	3.7	0.02	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.01	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.01	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	2.81	0.01	0.72	0.00	5.50	13.90	0.00	0.00	0.00	0.00	0.00	0.00
Mean	0.09	0.00	0.02	0.00	0.20	0.45	0.00	0.00	0.00	0.00	0.00	0.00
Max	0.28	0.01	0.42	0.00	3.7	2.7	0.00	0.00	0.00	0.00	0.00	0.00
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ac-ft	5.6	0.02	1.4	0.00	11	28	0.00	0.00	0.00	0.00	0.00	0.00

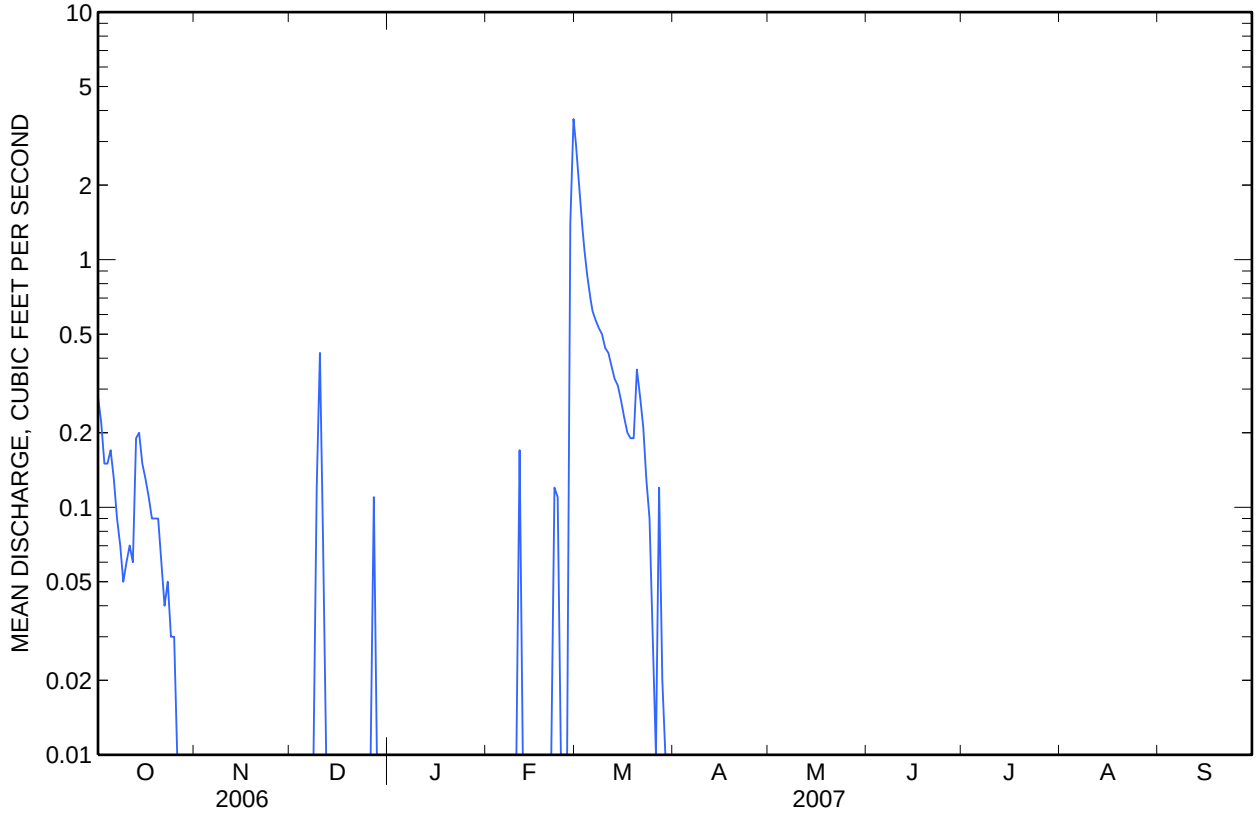
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.71	2.24	14.0	39.9	105	94.6	28.1	7.73	4.01	1.77	1.09	1.49
Max	11.3	23.6	275	467	1,210	974	243	96.9	66.0	26.2	20.8	22.7
(WY)	(1999)	(1966)	(1967)	(1969)	(1998)	(1995)	(1998)	(1998)	(1998)	(1998)	(1998)	(1990)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1960)	(1960)	(1960)	(1960)	(1964)	(1961)	(1961)	(1961)	(1961)	(1960)	(1960)	(1960)

11136800 Cuyama River below Buckhorn Canyon, near Santa Maria, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1960 - 2007	
Annual total	7,957.67		22.94			
Annual mean	21.8		0.06		24.6	
Highest annual mean					168	1998
Lowest annual mean					0.00	1964
Highest daily mean	1,950	Apr 5	3.7	Feb 28	10,000	Feb 24, 1998
Lowest daily mean	0.00	Oct 29	0.00	Oct 29	0.00	Oct 1, 1959
Annual seven-day minimum	0.00	Nov 2	0.00	Nov 2	0.00	Oct 1, 1959
Maximum peak flow			4.3	Feb 28	26,200	Feb 23, 1998
Maximum peak stage			4.77	Feb 28	14.76	Feb 23, 1998
Annual runoff (ac-ft)	15,780		46		17,850	
10 percent exceeds	26		0.13		19	
50 percent exceeds	1.4		0.00		0.44	
90 percent exceeds	0.00		0.00		0.00	



11136800 Cuyama River below Buckhorn Canyon, near Santa Maria, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.
CHEMICAL DATA: Water years 1978 to current year.
SEDIMENT DATA: Water years 1999-2002.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Residue on evap. at 180degC wat flt mg/L (70300)
Oct						
03...	1505	.05	8.2	1,240	24.0	876
Mar						
05...	1400	.81	8.1	1,510	21.0	1,090