

## 11389500 Sacramento River at Colusa, CA

Sacramento River Basin

LOCATION.--Lat 39°12'51", long 121°59'57" referenced to North American Datum of 1927, Colusa County, CA, Hydrologic Unit 18020104, at northeast end of Jimeno Land Grant, on right bank, 60 ft downstream from bridge on River Road in Colusa, and at mile 89.4 upstream from Sacramento.

DRAINAGE AREA.--12,090 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1921 to current year (prior to October 1940, low-water periods only).

CHEMICAL DATA: Water years 1959-66, 1996-2001.

SPECIFIC CONDUCTANCE: Water years 1995-98.

WATER TEMPERATURE: Water years 1975, 1977-80, 1995-98.

SEDIMENT DATA: Water years 1973-80, 1996-2000.

REVISED RECORDS.--WSP 1345: 1952. WDR CA-77-4: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2.95 ft below NGVD of 1929. Prior to December 1930, water-stage recorder in center fender pier 50 ft upstream from bridge at same datum.

REMARKS.--Records Fair. Natural flow of stream affected by storage reservoirs, including Shasta Lake (station 11370000) since 1943, power development, bypassing for flood control, diversions for irrigation, and return flow from irrigated areas. When discharge exceeds about 30,000 ft<sup>3</sup>/s, flow begins over Colusa Weir, 2.5 mi upstream on left bank, into Butte Sink and Sutter Bypass. See schematic diagram of lower Sacramento River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (since water year 1941), 51,800 ft<sup>3</sup>/s, Mar. 4, 1983, gage height, 68.50 ft, maximum gage height, 69.20 ft, Feb. 18, 1942; minimum recorded, 820 ft<sup>3</sup>/s, July 25, 26, 1931, gage height, 34.79 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,110	4,730	24,300	13,800	9,410	6,090	8,160	7,250	8,860	10,100	8,880	6,430
2	6,050	4,950	23,900	12,200	9,230	6,130	9,610	7,330	8,680	9,990	8,710	6,490
3	5,990	5,030	36,900	11,500	9,080	6,140	9,170	7,100	8,580	9,590	8,390	6,510
4	5,970	4,990	36,100	11,000	9,060	6,310	8,880	6,640	8,420	9,250	8,290	6,500
5	5,920	5,110	25,700	10,600	8,940	6,300	8,770	6,150	8,090	9,790	8,310	6,580
6	5,760	5,100	33,700	10,300	8,720	6,430	9,750	6,360	7,680	10,100	8,210	6,600
7	5,720	5,100	31,700	10,200	8,530	6,610	10,200	6,850	8,170	9,770	8,170	6,580
8	5,780	5,040	23,000	10,200	8,430	6,730	10,200	7,710	9,020	9,920	8,160	6,550
9	5,700	4,770	18,300	10,200	8,570	6,610	9,880	8,370	8,870	10,000	7,980	6,550
10	5,490	4,750	15,600	10,200	8,550	7,120	9,590	8,680	9,010	9,950	7,880	6,710
11	5,410	4,660	13,300	10,300	8,380	7,160	9,210	8,790	9,250	9,630	7,910	6,660
12	5,400	4,690	11,400	10,300	8,090	7,060	8,860	8,850	9,370	9,700	8,010	6,580
13	5,370	4,660	10,800	10,000	7,780	6,970	8,560	8,910	9,470	9,650	8,100	6,620
14	5,300	4,620	10,400	9,800	7,520	6,810	8,220	8,910	9,360	9,630	8,260	6,910
15	5,180	4,710	9,600	9,570	7,270	6,840	7,630	8,790	9,160	9,480	8,350	7,060
16	5,160	4,830	9,260	9,370	7,120	7,090	6,940	8,740	9,190	9,370	8,510	7,050
17	4,910	5,230	9,810	9,270	7,210	7,160	6,350	8,790	9,210	9,430	8,570	6,860
18	4,730	6,400	13,300	9,130	7,170	7,050	5,850	9,080	9,350	9,490	8,060	6,840
19	4,620	8,920	12,800	8,800	6,980	6,870	5,100	8,980	8,700	9,490	7,630	6,640
20	4,650	7,400	11,000	8,640	6,970	6,780	4,840	8,850	8,780	9,470	7,620	6,680
21	4,830	6,600	10,800	8,540	7,030	7,100	4,510	8,800	8,720	9,570	7,770	6,880
22	5,030	9,930	28,900	8,450	6,950	8,040	4,580	8,900	8,660	9,770	7,910	7,140
23	5,290	9,970	39,000	8,420	6,790	7,690	4,260	9,160	8,690	9,670	7,950	7,140
24	5,590	7,560	38,800	8,510	6,580	7,140	4,300	8,970	8,870	9,630	7,770	6,890
25	5,630	6,460	39,700	9,410	6,480	6,850	4,930	9,040	8,980	9,650	7,550	6,880
26	5,570	5,970	32,000	10,400	6,400	6,680	5,590	8,900	9,600	9,660	7,590	7,010
27	5,350	5,740	33,500	10,400	6,290	6,410	6,290	8,840	10,800	9,610	7,310	7,040
28	5,160	5,870	28,900	10,400	6,230	6,260	6,720	8,800	10,900	9,620	7,220	6,930
29	5,050	6,290	22,300	9,960	---	6,070	6,940	9,110	10,400	9,610	7,140	6,510
30	4,840	8,660	18,400	9,520	---	6,050	7,120	9,300	10,200	9,030	6,790	6,280
31	4,660	---	16,000	9,390	---	7,270	---	9,190	---	8,850	6,720	---
<b>Total</b>	166,220	178,740	689,170	308,780	215,760	209,820	221,010	260,140	273,040	298,470	245,720	202,100
<b>Mean</b>	5,362	5,958	22,230	9,961	7,706	6,768	7,367	8,392	9,101	9,628	7,926	6,737
<b>Max</b>	6,110	9,970	39,700	13,800	9,410	8,040	10,200	9,300	10,900	10,100	8,880	7,140
<b>Min</b>	4,620	4,620	9,260	8,420	6,230	6,050	4,260	6,150	7,680	8,850	6,720	6,280
<b>Ac-ft</b>	329,700	354,500	1,367,000	612,500	428,000	416,200	438,400	516,000	541,600	592,000	487,400	400,900

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	6,394	8,198	13,470	17,450	19,050	17,150	12,670	10,760	9,250	8,937	8,295	7,258
<b>Max</b>	12,040	27,000	38,000	39,720	45,500	44,450	39,590	26,680	24,590	13,890	12,320	10,850
<b>(WY)</b>	(1958)	(1974)	(1984)	(1997)	(1998)	(1983)	(2006)	(1983)	(1998)	(1998)	(1998)	(1998)
<b>Min</b>	3,219	3,860	4,141	5,190	5,147	5,852	4,966	5,015	4,852	5,073	5,081	4,322
<b>(WY)</b>	(1978)	(1993)	(1977)	(2009)	(1991)	(1977)	(1994)	(1947)	(1992)	(1992)	(1947)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1946 - 2013	
<b>Annual total</b>	3,424,960		3,268,970			
<b>Annual mean</b>	9,358		8,956		11,540	
<b>Highest annual mean</b>					21,790	1983
<b>Lowest annual mean</b>					5,671	1977
<b>Highest daily mean</b>	39,700	Dec 25	39,700	Dec 25	51,300	Mar 4, 1983
<b>Lowest daily mean</b>	4,620	Oct 19	4,260	Apr 23	2,620	Oct 16, 1977
<b>Annual seven-day minimum</b>	4,690	Nov 9	4,650	Apr 19	2,690	Oct 12, 1977
<b>Maximum peak flow</b>			41,400	Dec 25	51,800	Mar 4, 1983
<b>Maximum peak stage</b>			64.92	Dec 25	68.83	Jan 3, 1997
<b>Annual runoff (ac-ft)</b>	6,793,000		6,484,000		8,362,000	
<b>10 percent exceeds</b>	13,300		10,400		23,800	
<b>50 percent exceeds</b>	7,840		8,170		8,360	
<b>90 percent exceeds</b>	5,390		5,270		5,340	

