

Water-Data Report 2013

11453000 Yolo Bypass near Woodland, CA

Sacramento River Basin

LOCATION.--Lat 38°40'40", long 121°38'35" referenced to North American Datum of 1927, Yolo County, CA, Hydrologic Unit 18020109, unsurveyed, on left bank, 300 ft upstream from Sacramento and Woodland Railroad Bridge, 6 mi upstream from Sacramento Bypass, 6 mi downstream from Fremont Weir, and 7 mi east of Woodland.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year (since October 1977, high flows only). Monthly discharge only for some periods, published in WSP 1315-A.

REVISED RECORDS.--WDR CA-96-4: 1995 (instantaneous maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 3.41 ft below NGVD of 1929. Prior to Dec. 17, 1941, nonrecording gage, and Dec. 18-31, 1941, water-stage recorder, at datum 0.73 ft higher. Prior to Sept. 30, 1977, a supplementary water-stage recorder 6 mi downstream at different datum recorded low flow.

REMARKS.--Records not computed below 1,000 ft³/s. Flow is from Cache Creek and Knights Landing Ridge Cut plus floodwater passing over Fremont Weir. Published discharges reflect rated flows at this site minus the flows released at the Sacramento Weir Spill to Yolo Bypass, near Woodland (station 11426000), when it is in operation, which are provided by California Department of Water Resources. Beginning October 1977, only flows above 1,000 ft³/s are computed. See schematic diagrams of lower Sacramento River Basin and Sacramento-San Joaquin Delta available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 374,000 ft³/s, Feb. 20, 1986, gage height, 34.87 ft; no flow at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,500 ft³/s, Dec. 27, gage height, 24.50 ft.

11453000 Yolo Bypass near Woodland, CA—Continued

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	---	---	---	3,620	---	---	---	---	---	---	---	---
2	---	---	1,640	3,310	---	---	---	---	---	---	---	---
3	---	---	3,180	3,000	---	---	---	---	---	---	---	---
4	---	---	3,960	2,610	---	---	---	---	---	---	---	---
5	---	---	3,770	2,140	---	---	---	---	---	---	---	---
6	---	---	3,810	1,750	---	---	---	---	---	---	---	---
7	---	---	4,000	1,310	---	---	---	---	---	---	---	---
8	---	---	3,990	---	---	---	---	---	---	---	---	---
9	---	---	3,970	---	---	---	---	---	---	---	---	---
10	---	---	3,980	---	---	---	---	---	---	---	---	---
11	---	---	3,930	---	---	---	---	---	---	---	---	---
12	---	---	3,710	---	---	---	---	---	---	---	---	---
13	---	---	3,060	---	---	---	---	---	---	---	---	---
14	---	---	2,530	---	---	---	---	---	---	---	---	---
15	---	---	1,950	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	3,440	---	---	---	---	---	---	---	---	---
24	---	---	5,700	---	---	---	---	---	---	---	---	---
25	---	---	5,450	---	---	---	---	---	---	---	---	---
26	---	---	10,400	---	---	---	---	---	---	---	---	---
27	---	---	15,500	---	---	---	---	---	---	---	---	---
28	---	---	9,480	---	---	---	---	---	---	---	---	---
29	---	---	5,030	---	---	---	---	---	---	---	---	---
30	---	---	4,120	---	---	---	---	---	---	---	---	---
31	---	---	3,910	---	---	---	---	---	---	---	---	---
Total	---	---	---	---	---	---	---	---	---	---	---	---
Mean	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---
Ac-ft	---	---	---	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1977, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	441	738	5,638	13,230	11,240	3,398	3,849	430	144	20.7	26.1	51.0
Max	13,420	10,890	48,790	86,470	92,890	27,910	37,310	4,546	1,420	107	84.9	155
(WY)	(1963)	(1951)	(1956)	(1970)	(1958)	(1958)	(1958)	(1952)	(1967)	(1958)	(1958)	(1954)
Min	1.01	2.19	0.92	2.43	0.88	3.55	0.08	0.55	0.53	0.00	0.00	0.63
(WY)	(1977)	(1960)	(1977)	(1977)	(1977)	(1977)	(1976)	(1977)	(1977)	(1966)	(1966)	(1977)

11453000 Yolo Bypass near Woodland, CA—Continued**SUMMARY STATISTICS**

	Water Years 1946 - 1977	
Annual mean	3,230	
Highest annual mean	13,020	1958
Lowest annual mean	1.53	1977
Highest daily mean	259,000	Dec 25, 1964
Lowest daily mean	0.00	Jul 11, 1963
Annual seven-day minimum	0.00	Jul 19, 1963
Maximum peak flow	265,000	Dec 25, 1964
Maximum peak stage	32.48	Dec 25, 1964
Annual runoff (ac-ft)	2,340,000	
10 percent exceeds	3,080	
50 percent exceeds	35	
90 percent exceeds	1.9	

11453000 Yolo Bypass near Woodland, CA—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water year 1980, December 2010 to current year (storm season only).

SEDIMENT DATA: Water year 1980, December 2010 to current year (storm season only)

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: December 1979 to March 1980.

SUSPENDED-SEDIMENT DISCHARGE: December 1979 to March 1980.

REMARKS.--Sample data collected for Delta sediment transport studies.

EXTREMES FOR PERIOD OF RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,000 mg/L, Jan. 13, 1980.

SEDIMENT DISCHARGE: Maximum daily, 124,000 tons, Feb. 21, 1980.

**PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; A, average]

Sample date-time	Discharge, instantaneous, ft ³ /s (00061)	Temperature, water, °C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)
12-03-2012 1512	3,700	14.1	1,050	10,500	99
12-03-2012 1513	3,700	14.1	1,130	11,300	98
12-03-2012 1517	3,700	14.1	769	7,680	98
12-03-2012 1519	3,700	14.1	939	9,380	98
12-03-2012 1520	3,700	14.1	A 710	A 7,090	A 95
12-03-2012 1521	3,700	14.1	475	4,750	92
12-03-2012 1522	3,700	14.1	A 737	A 7,360	A 94
12-03-2012 1523	3,700	14.1	484	4,840	92
12-03-2012 1524	3,700	14.1	A 724	A 7,230	A 94
12-03-2012 1525	3,700	14.1	623	6,220	88
12-03-2012 1527	3,700	14.1	584	5,830	89
12-03-2012 1528	3,700	14.1	554	5,530	94
12-03-2012 1530	3,700	14.1	631	6,300	85
01-08-2013 1356	978	8.5	64	169	96
01-08-2013 1358	978	8.5	65	172	93
01-08-2013 1402	978	8.5	73	193	94
01-08-2013 1404	978	8.5	72	190	96
01-08-2013 1408	978	8.5	76	201	95
01-08-2013 1409	978	8.5	A 76	A 201	A 96
01-08-2013 1410	978	8.5	79	209	95
01-08-2013 1411	978	8.5	A 85	A 224	A 89
01-08-2013 1412	978	8.5	A 80	A 211	A 92
01-08-2013 1415	978	8.5	88	232	95
01-08-2013 1417	978	8.5	118	312	76
01-08-2013 1420	978	8.5	78	206	98
01-08-2013 1422	978	8.5	90	238	90