

Water-Data Report 2013

11421000 Yuba River near Marysville, CA

Sacramento River Basin

LOCATION.--Lat 39°10'33", long 121°31'26" referenced to North American Datum of 1927, Yuba County, CA, Hydrologic Unit 18020107, in New Helvetia Grant, on left bank, 4.2 mi northeast of Marysville, and 5 mi downstream from Dry Creek.

DRAINAGE AREA.--1,339 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1940 to current year (prior to October 1943, low-water periods only). Published as "at Marysville" October 1940 to September 1957. Separate records published for two sites August 1954 to September 1955. Yearly discharge for the water year 1945 published in WSP 1315-A.

CHEMICAL DATA: Water years 1951-52, 1973-80. Published as "Yuba River at Marysville" (station 11421500) water years 1966, 1973-76.

WATER TEMPERATURE: Water years 1964-65, 1973-78, 1990-2003.

REVISED RECORDS.--WSP 1715: 1956 (instantaneous maximum discharge). WSP 1931: Drainage area. WDR CA-99-4: 1997 (instantaneous maximum discharge).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2.95 ft below NGVD of 1929. Prior to August 1954, and Oct. 1, 1956, to Sept. 30, 1957, at Simpson Lane Bridge in Marysville, 4.2 mi downstream, at same datum. Sept. 3, 1963, to Sept. 23, 1968, auxiliary water-stage recorder at Simpson Lane Bridge at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by New Bullards Bar Reservoir since January 1969, and several other reservoirs. Many diversions upstream from station for power and for irrigation. See schematic diagrams of South Yuba River Basin and lower Sacramento River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (water year 1944 and since 1947), 180,000 ft³/s, Dec. 22, 1964, gage height, 90.15 ft, from floodmarks, from rating curve extended above 91,000 ft³/s, on basis of U.S. Army Corps of Engineers flood-routing study, maximum gage height, 91.64 ft, from floodmarks, Jan. 2, 1997; minimum recorded, 10 ft³/s, July 2, 1959.

11421000 Yuba River near Marysville, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	880	686	15,200	2,980	1,520	1,370	1,350	1,090	986	954	1,090	544
2	865	698	22,200	2,600	1,500	1,370	1,130	1,130	892	1,120	1,070	533
3	864	703	14,500	2,280	1,510	1,390	1,100	1,060	842	1,130	1,060	532
4	856	692	e6,720	2,160	1,500	1,400	1,090	1,060	827	1,150	1,060	536
5	850	654	e7,310	2,150	1,500	1,410	1,110	1,070	839	1,160	1,030	555
6	862	610	e6,230	2,140	1,500	1,460	1,090	1,070	839	1,160	1,050	574
7	849	601	e4,300	2,110	1,510	1,460	1,080	1,090	829	1,150	1,040	580
8	721	600	e4,040	2,090	1,510	1,410	1,100	1,060	823	1,130	1,010	579
9	660	589	e3,340	2,100	1,510	1,380	1,080	1,010	849	1,160	1,030	572
10	635	558	e2,620	2,100	1,500	1,370	1,070	1,050	838	1,150	1,050	585
11	628	540	e2,140	2,090	1,480	1,380	1,060	1,040	867	1,140	1,040	601
12	626	550	e1,500	2,060	1,480	1,320	1,050	1,030	861	1,120	1,030	600
13	632	548	e1,180	2,030	1,490	1,310	1,010	1,020	842	1,120	1,030	584
14	631	549	e1,220	2,010	1,470	1,330	995	1,040	829	1,120	1,030	587
15	652	550	1,240	2,010	1,460	1,390	962	1,040	839	1,130	1,020	579
16	671	556	1,220	2,000	1,470	1,420	875	1,010	821	1,150	1,020	577
17	655	638	1,490	1,980	1,450	1,420	867	1,020	785	1,160	1,030	585
18	666	863	2,280	1,970	1,450	1,410	853	989	777	1,140	1,020	583
19	677	694	2,860	1,970	1,470	1,400	851	996	778	1,140	1,020	572
20	700	643	3,050	1,950	1,570	1,460	854	986	806	1,150	1,030	564
21	698	801	3,170	1,930	1,550	1,610	858	1,000	797	1,150	1,020	594
22	752	716	4,760	1,940	1,520	1,550	877	1,020	774	1,120	1,020	609
23	768	610	6,270	2,040	1,440	1,440	875	1,000	753	1,120	1,020	604
24	735	584	5,910	2,020	1,410	1,400	845	1,050	780	1,140	1,020	596
25	715	582	4,270	1,880	1,390	1,380	863	1,030	801	1,140	994	587
26	682	598	5,480	1,780	1,370	1,340	860	1,020	799	1,120	917	582
27	660	632	4,560	1,760	1,360	1,340	868	1,040	770	1,110	841	569
28	648	789	4,320	1,740	1,370	1,340	898	1,040	753	1,100	772	571
29	661	1,010	4,000	1,750	---	1,330	894	1,030	774	1,090	708	570
30	671	8,920	3,280	1,750	---	1,310	1,000	1,030	824	1,080	642	541
31	661	---	3,180	1,700	---	1,370	---	1,020	---	1,050	584	---
Total	22,231	27,764	153,840	63,070	41,260	43,270	29,415	32,141	24,594	34,854	30,298	17,245
Mean	717	925	4,963	2,035	1,474	1,396	980	1,037	820	1,124	977	575
Max	880	8,920	22,200	2,980	1,570	1,610	1,350	1,130	986	1,160	1,090	609
Min	626	540	1,180	1,700	1,360	1,310	845	986	753	954	584	532
Ac-ft	44,100	55,070	305,100	125,100	81,840	85,830	58,340	63,750	48,780	69,130	60,100	34,210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1968, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	507	846	3,323	3,574	4,555	3,928	4,965	5,064	2,610	514	218	240
Max	6,222	8,586	18,650	13,160	12,470	7,321	10,400	13,750	8,712	2,669	551	458
(WY)	(1963)	(1951)	(1965)	(1956)	(1958)	(1958)	(1952)	(1952)	(1952)	(1952)	(1967)	(1952)
Min	50.5	116	157	573	965	1,360	2,139	1,264	265	30.5	35.3	47.9
(WY)	(1962)	(1960)	(1960)	(1960)	(1948)	(1964)	(1961)	(1947)	(1959)	(1959)	(1959)	(1961)

11421000 Yuba River near Marysville, CA—Continued

SUMMARY STATISTICS

Water Years 1944 - 1968		
Annual mean	2,518	
Highest annual mean	5,393	1952
Lowest annual mean	882	1961
Highest daily mean	136,000	Dec 23, 1955
Lowest daily mean	15	Nov 7, 1959
Annual seven-day minimum	15	Nov 5, 1959
Maximum peak flow	180,000	Dec 22, 1964
Maximum peak stage	90.15	Dec 22, 1964
Annual runoff (ac-ft)	1,824,000	
10 percent exceeds	6,450	
50 percent exceeds	822	
90 percent exceeds	108	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	983	1,188	2,378	3,823	3,934	4,107	3,036	2,681	2,042	1,380	1,416	1,122
Max	2,731	4,475	11,430	26,180	20,970	15,100	14,280	10,010	8,633	4,051	2,829	2,900
(WY)	(1976)	(1984)	(1984)	(1997)	(1986)	(1983)	(1982)	(2006)	(1983)	(2011)	(1984)	(1980)
Min	132	182	371	230	211	188	173	166	155	88.4	71.7	85.8
(WY)	(1970)	(1970)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1970 - 2013	
Annual total	703,911		519,982			
Annual mean	1,923		1,425		2,334	
Highest annual mean					5,818	
Lowest annual mean					229	
Highest daily mean	22,200	Dec 2	22,200	Dec 2	140,000	Jan 2, 1997
Lowest daily mean	518	Jan 6	532	Sep 3	62	Jul 19, 1977
Annual seven-day minimum	521	Jan 5	550	Nov 10	65	Jul 31, 1977
Maximum peak flow			35,300	Dec 2	161,000	Jan 2, 1997
Maximum peak stage			76.12	Dec 2	91.64	Jan 2, 1997
Annual runoff (ac-ft)	1,396,000		1,031,000		1,691,000	
10 percent exceeds	4,500		2,090		4,950	
50 percent exceeds	1,090		1,040		1,230	
90 percent exceeds	617		595		395	

11421000 Yuba River near Marysville, CA—Continued

