

11266500 Merced River at Pohono Bridge, near Yosemite, CA

San Joaquin River Basin

LOCATION.--Lat 37°43'01", long 119°39'55" referenced to North American Datum of 1927, Mariposa County, CA, Hydrologic Unit 18040008, unsurveyed, in Yosemite National Park, on left bank, 150 ft upstream from Pohono Bridge, 0.4 mi upstream from Artist Creek, and 4.8 mi southwest of Yosemite National Park Headquarters.

DRAINAGE AREA.--321 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1916 to current year. Monthly discharge only for October and November 1916, published in WSP 1315-A.

CHEMICAL DATA: Water years 1971-72, 1981-82, 1994, 1995.

WATER TEMPERATURE: Water year 1995.

SEDIMENT DATA: Water year 1995.

GAGE.--Water-stage recorder. Elevation of gage is 3,861.66 ft above NGVD of 1929. Prior to Sept. 5, 1918, at datum 1.8 ft higher. Sept. 5, 1918, to Sept. 30, 1955, at datum 1.0 ft higher.

REMARKS.--Records good. No diversions between stations at Happy Isles Bridge and Pohono Bridge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,600 ft³/s, Jan. 3, 1997, gage height, 23.43 ft, from floodmarks in gagehouse, from rating curve extended above 17,000 ft³/s, on basis of computation of flow over diversion dam for Yosemite Powerplant 1 mi downstream at gage heights 20.1 and 21.98 ft; minimum daily, 5.4 ft³/s, Oct. 26, 1977.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 25	0600	5,740	9.51
May 7	0200	4,990	8.70
May 14	0215	5,000	8.71
May 28	0230	3,740	7.59
Jun 6	0315	3,330	7.18
Jun 16	0415	*7,160	*10.43

11266500 Merced River at Pohono Bridge, near Yosemite, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25	302	336	529	490	398	1,530	1,890	2,250	3,620	1,390	203
2	31	273	358	541	454	446	1,850	2,140	2,000	3,860	1,010	182
3	35	259	366	508	455	471	1,720	2,630	1,970	4,100	858	169
4	128	258	377	469	466	434	1,650	3,210	1,960	4,090	761	160
5	192	254	379	456	483	437	1,920	3,930	2,690	4,220	696	155
6	157	238	461	454	503	498	2,010	4,370	2,990	3,770	648	148
7	131	250	429	454	540	560	1,860	4,490	2,500	3,980	609	138
8	110	396	419	452	548	512	1,430	4,340	3,330	3,500	576	132
9	96	381	614	430	493	547	1,250	3,020	3,950	3,220	548	135
10	91	409	774	402	477	582	1,120	2,330	4,500	2,830	517	151
11	94	361	766	424	468	624	1,150	2,450	4,720	2,440	489	161
12	109	320	668	428	471	635	1,220	3,210	4,480	2,230	462	224
13	109	341	586	423	472	627	1,270	4,040	5,090	2,110	434	235
14	98	343	550	420	489	615	1,090	4,450	5,490	1,960	414	261
15	87	428	565	464	468	714	1,110	3,790	6,120	1,850	414	224
16	78	424	514	516	469	1,300	1,520	2,670	6,370	1,780	407	224
17	71	366	531	606	454	993	2,120	2,220	5,560	1,640	368	191
18	88	318	747	646	485	821	2,540	2,050	5,280	1,490	338	162
19	110	286	1,540	630	472	734	2,410	1,870	5,370	1,390	323	141
20	109	288	1,150	587	457	707	2,490	1,950	5,280	1,350	331	126
21	101	283	951	575	443	667	2,110	2,440	5,760	1,340	326	119
22	98	328	860	605	434	684	1,890	2,840	6,080	1,310	293	120
23	94	340	743	578	420	683	1,680	2,990	6,150	1,330	265	112
24	788	305	682	552	415	636	1,570	2,900	5,670	1,350	255	114
25	4,030	306	645	551	418	617	1,500	3,090	4,820	1,240	275	126
26	1,090	341	609	551	393	649	1,500	2,970	4,390	1,090	282	108
27	651	356	548	547	382	616	1,660	3,320	4,250	989	274	101
28	486	332	572	553	392	638	1,990	3,470	4,480	978	294	94
29	393	282	599	552	---	679	1,990	2,930	5,460	1,010	309	89
30	353	319	523	558	---	799	1,900	2,260	4,030	1,280	273	86
31	340	---	503	508	---	1,080	---	2,200	---	1,810	231	---
Total	10,373	9,687	19,365	15,969	12,911	20,403	51,050	92,460	132,990	69,157	14,670	4,591
Mean	335	323	625	515	461	658	1,702	2,983	4,433	2,231	473	153
Max	4,030	428	1,540	646	548	1,300	2,540	4,490	6,370	4,220	1,390	261
Min	25	238	336	402	382	398	1,090	1,870	1,960	978	231	86
Ac-ft	20,570	19,210	38,410	31,670	25,610	40,470	101,300	183,400	263,800	137,200	29,100	9,110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	64.6	121	183	208	251	440	1,124	2,375	1,952	659	149	63.5
Max	436	1,587	1,666	2,461	1,035	1,459	2,136	5,305	6,279	3,460	1,045	426
(WY)	(1983)	(1951)	(1951)	(1997)	(1986)	(1986)	(1982)	(1969)	(1983)	(1983)	(1983)	(1978)
Min	5.89	13.9	15.1	17.3	21.0	51.5	343	379	148	47.2	14.7	7.38
(WY)	(1978)	(1930)	(1977)	(1977)	(1991)	(1977)	(1977)	(1977)	(1924)	(1931)	(1977)	(1977)

11266500 Merced River at Pohono Bridge, near Yosemite, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1917 - 2011	
Annual total	295,034		453,626			
Annual mean	808		1,243		633	
Highest annual mean					1,466	1983
Lowest annual mean					127	1977
Highest daily mean	6,230	Jun 7	6,370	Jun 16	21,000	Jan 2, 1997
Lowest daily mean	25	Sep 28	25	Oct 1	5.4	Oct 26, 1977
Annual seven-day minimum	26	Sep 25	91	Oct 12	5.6	Oct 20, 1977
Maximum peak flow			7,160	Jun 16	24,600	Jan 3, 1997
Maximum peak stage			10.43	Jun 16	23.43	Jan 3, 1997
Annual runoff (ac-ft)	585,200		899,800		458,800	
10 percent exceeds	2,490		3,680		1,940	
50 percent exceeds	341		553		187	
90 percent exceeds	66		145		25	

