

Water-Data Report 2010

11273400 San Joaquin River above Merced River, near Newman, CA

San Joaquin River Basin

LOCATION.--Lat 37°20'50.2", long 120°58'30.5" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.3, T.7 S., R.9 E., Stanislaus County, CA, Hydrologic Unit 18040002, on left bank, 1,000 ft upstream from the Merced River, 1,500 ft upstream from bridge on Hills Ferry Road/Kelley Road, and 3.4 mi northeast of Newman.

DRAINAGE AREA.--7,949 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 2008 to current year (low-flow station only).

GAGE.--Water-stage recorder. Elevation of gage is 60 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and the period of backwater from Apr. 20 to June 3, which are rated poor. No records computed above 2,500 ft³/s. Natural flow of stream affected by storage reservoirs, ground-water withdrawals, diversions for irrigation, and imported water. Low flows consist mainly of return water from irrigated areas.

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
(NOT PREVIOUSLY PUBLISHED)
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	---	134
2	---	---	---	---	---	---	---	---	---	---	---	124
3	---	---	---	---	---	---	---	---	---	---	---	111
4	---	---	---	---	---	---	---	---	---	---	---	108
5	---	---	---	---	---	---	---	---	---	---	---	108
6	---	---	---	---	---	---	---	---	---	---	---	110
7	---	---	---	---	---	---	---	---	---	---	---	118
8	---	---	---	---	---	---	---	---	---	---	---	112
9	---	---	---	---	---	---	---	---	---	---	---	116
10	---	---	---	---	---	---	---	---	---	---	---	110
11	---	---	---	---	---	---	---	---	---	---	---	104
12	---	---	---	---	---	---	---	---	---	---	---	114
13	---	---	---	---	---	---	---	---	---	---	---	125
14	---	---	---	---	---	---	---	---	---	---	---	121
15	---	---	---	---	---	---	---	---	---	---	---	127
16	---	---	---	---	---	---	---	---	---	---	---	122
17	---	---	---	---	---	---	---	---	---	---	---	112
18	---	---	---	---	---	---	---	---	---	---	---	106
19	---	---	---	---	---	---	---	---	---	---	---	101
20	---	---	---	---	---	---	---	---	---	---	---	103
21	---	---	---	---	---	---	---	---	---	---	---	104
22	---	---	---	---	---	---	---	---	---	---	---	99
23	---	---	---	---	---	---	---	---	---	---	---	96
24	---	---	---	---	---	---	---	---	---	---	---	96
25	---	---	---	---	---	---	---	---	---	---	---	99
26	---	---	---	---	---	---	---	---	---	---	---	98
27	---	---	---	---	---	---	---	---	---	---	---	105
28	---	---	---	---	---	---	---	---	---	---	e123	106
29	---	---	---	---	---	---	---	---	---	---	114	104
30	---	---	---	---	---	---	---	---	---	---	117	107
31	---	---	---	---	---	---	---	---	---	---	129	---
Total	---	---	---	---	---	---	---	---	---	---	---	3,300
Mean	---	---	---	---	---	---	---	---	---	---	---	110
Max	---	---	---	---	---	---	---	---	---	---	---	134
Min	---	---	---	---	---	---	---	---	---	---	---	96
Ac-ft	---	---	---	---	---	---	---	---	---	---	---	6,550

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	105	e300	272	248	535	1,450	795	840	920	339	232	345
2	113	e310	315	247	499	1,630	775	776	971	338	252	309
3	117	338	313	e240	458	1,660	759	781	986	328	292	e290
4	117	337	290	e240	429	1,590	769	809	906	319	297	281
5	126	335	271	235	413	1,790	844	897	852	315	292	267
6	127	307	256	230	410	1,840	945	1,020	785	315	280	258
7	122	284	248	229	426	1,820	986	1,000	e740	346	249	248
8	128	267	250	233	496	1,680	1,030	972	e730	326	244	262
9	127	257	253	235	602	1,500	1,010	978	e740	312	265	353
10	132	251	249	242	622	1,360	977	896	e730	315	268	e360
11	144	251	252	237	732	1,260	963	774	e720	300	257	e390
12	149	247	271	238	816	1,190	1,010	671	e740	286	254	e380
13	164	245	305	245	749	1,110	1,050	581	e760	291	236	e380
14	250	248	349	256	641	1,050	1,190	502	755	294	234	e410
15	359	254	388	267	575	1,050	1,290	489	698	294	259	e430
16	410	256	396	271	536	1,040	1,280	533	634	291	275	e470
17	417	260	393	283	501	1,030	1,200	560	562	274	299	e500
18	412	266	381	302	471	1,080	1,110	550	505	264	282	502
19	395	262	349	363	441	1,110	1,080	569	481	252	266	430
20	358	254	326	646	425	1,090	1,020	588	459	251	240	371
21	294	254	308	977	439	1,080	1,020	561	461	262	238	314
22	264	257	301	1,470	454	1,060	1,060	558	467	262	238	277
23	289	258	287	1,670	453	1,030	1,260	552	431	253	230	270
24	e290	257	267	1,800	484	1,010	1,410	482	413	251	218	259
25	e300	260	261	1,780	553	975	1,440	526	373	257	218	248
26	e320	254	266	1,550	777	927	1,380	534	369	283	212	243
27	e330	252	259	1,220	897	889	1,280	595	382	295	209	236
28	e320	263	251	952	1,180	889	1,180	699	401	273	219	239
29	e310	261	249	777	---	865	1,150	776	386	255	244	234
30	e300	259	252	667	---	838	994	850	350	246	289	232
31	e290	---	248	587	---	810	---	900	---	238	339	---
Total	7,579	8,104	9,076	18,937	16,014	37,703	32,257	21,819	18,707	8,925	7,927	9,788
Mean	244	270	293	611	572	1,216	1,075	704	624	288	256	326
Max	417	338	396	1,800	1,180	1,840	1,440	1,020	986	346	339	502
Min	105	245	248	229	410	810	759	482	350	238	209	232
Ac-ft	15,030	16,070	18,000	37,560	31,760	74,780	63,980	43,280	37,110	17,700	15,720	19,410

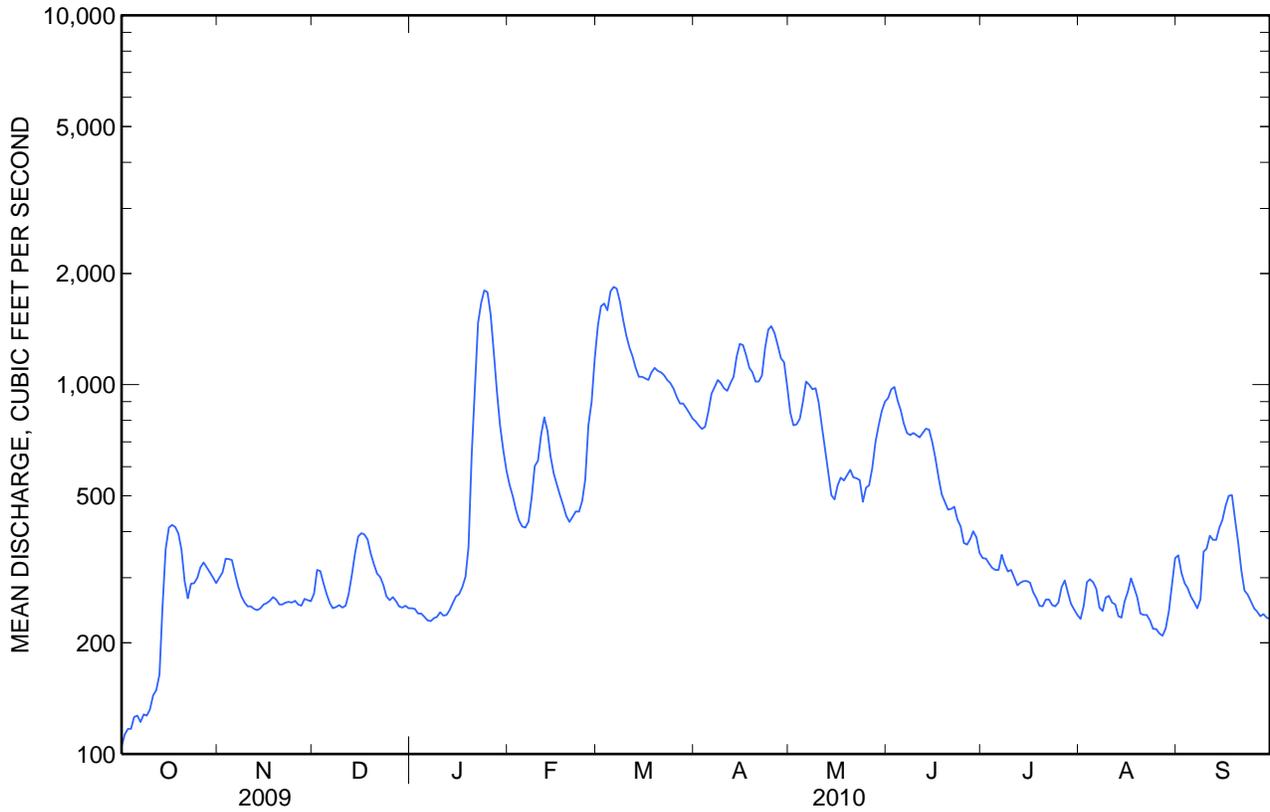
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	244	270	293	611	572	1,216	1,075	704	624	288	256	326
Max	244	270	293	611	572	1,216	1,075	704	624	288	256	326
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)
Min	244	270	293	611	572	1,216	1,075	704	624	288	256	326
(WY)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)	(2010)

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

SUMMARY STATISTICS

		Water Year 2010	
Annual total		196,836	
Annual mean		539	
Highest daily mean		1,840	Mar 6
Lowest daily mean		105	Oct 1
Annual seven-day minimum		118	Oct 1
Maximum peak flow		1,860	Mar 6
Maximum peak stage		53.74	Mar 6
Annual runoff (ac-ft)		390,400	
10 percent exceeds		1,080	
50 percent exceeds		358	
90 percent exceeds		240	



11273400 San Joaquin River above Merced River, near Newman, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: October 2009 to September 2010.

SPECIFIC CONDUCTANCE: August 2009 to current year.

WATER TEMPERATURE: August 2009 to current year.

INSTRUMENTATION.--Water-quality monitor since August 2009.

REMARKS.--Water-quality record may not represent total flow during times of backwater from the Merced River. Interruption in record due to recorder malfunction, probe being buried, and sensor damage.

Dissolved oxygen records rated excellent except for Nov. 27 to Dec. 3, Apr. 5-14, Apr. 18-20, which are rated good; Dec. 4, Apr. 21-24, which are rated fair; and Apr. 25-28, which is rated poor.

Specific conductance records rated excellent except for Oct. 1, Oct. 16-30, Nov. 11-20, Nov. 23-29, Dec. 9-17, Feb. 5-16, Mar. 1-3, Mar. 7-16,

Apr. 2-14, Apr. 22-28, May 25 to June 3, June 5-8, June 23-28, July 3-12, July 26 to Aug. 9, Aug. 25 to Sept. 1, Sept. 4-9, Sept. 13-20, which are rated good; Oct. 31 to Nov. 3, Nov. 30 to Dec. 4, Mar. 17-23, June 9-11, July 13-19, Aug. 10-19, Sept. 21-24, which are rated fair; and Mar. 24-26, June 12-17, which are rated poor.

Water temperature records rated excellent except for Feb. 2-16, which is rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum recorded dissolved oxygen was 12.2 mg/L, Dec. 2, 2009; Minimum recorded 2.2 mg/L, Oct. 19, 2009.

SPECIFIC CONDUCTANCE: Maximum recorded, 2,780 microsiemens, Jan. 3, 8, 2010; minimum recorded, 685 microsiemens, Jan. 24, 2010.

WATER TEMPERATURE: Maximum recorded, 31.3°C, July 17, 2010; minimum recorded, 5.6°C, Dec. 8, 2009.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum recorded, 12.2 mg/L, Dec. 2; minimum recorded, 2.2 mg/L, Oct. 19.

SPECIFIC CONDUCTANCE: Maximum recorded, 2,780 microsiemens, Jan. 3, 8; minimum recorded, 685 microsiemens, Jan. 24.

WATER TEMPERATURE Maximum recorded, 31.3°C, July 17; minimum recorded, 5.6°C, Dec. 8.

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

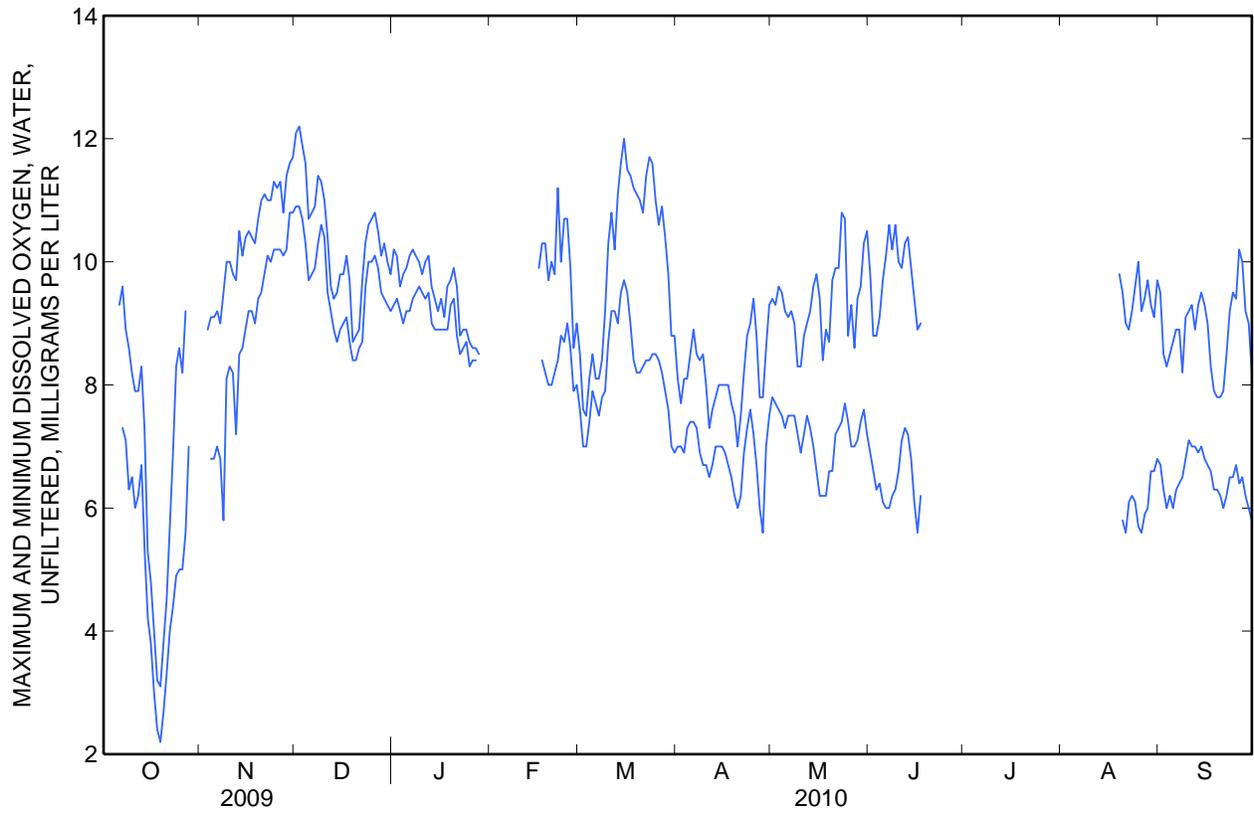
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	---	---	---	---	12.1	10.9	10.2	9.3	---	---	8.5	7.6
2	---	---	---	---	12.2	10.9	10.1	9.4	---	---	7.6	7.0
3	---	---	8.9	---	11.9	10.7	9.6	9.2	---	---	7.5	7.0
4	---	---	9.1	6.8	11.6	10.3	9.8	9.0	---	---	8.1	7.4
5	---	---	9.1	6.8	10.7	9.7	9.9	9.2	---	---	8.5	7.9
6	9.3	---	9.2	7.0	10.8	9.8	10.1	9.2	---	---	8.1	7.7
7	9.6	7.3	9.0	6.8	10.9	9.9	10.2	9.4	---	---	8.1	7.5
8	8.9	7.1	9.5	5.8	11.4	10.3	10.1	9.5	---	---	8.4	7.8
9	8.6	6.3	10.0	8.1	11.3	10.6	10.0	9.6	---	---	9.2	7.9
10	8.2	6.5	10.0	8.3	11.0	10.4	9.8	9.5	---	---	10.3	8.7
11	7.9	6.0	9.8	8.2	10.4	9.5	10.0	9.4	---	---	10.8	9.2
12	7.9	6.2	9.7	7.2	9.6	9.2	10.1	9.5	---	---	10.2	9.2
13	8.3	6.7	10.5	8.5	9.4	8.9	9.6	9.0	---	---	11.1	9.0
14	7.3	5.3	10.1	8.6	9.5	8.7	9.4	8.9	---	---	11.6	9.5
15	5.3	4.2	10.4	8.9	9.8	8.9	9.2	8.9	---	---	12.0	9.7
16	4.8	3.8	10.5	9.2	9.8	9.0	9.4	8.9	9.9	---	11.5	9.5
17	4.0	3.0	10.4	9.2	10.1	9.1	9.1	8.9	10.3	8.4	11.4	9.0
18	3.2	2.4	10.3	9.0	9.7	8.7	9.6	8.9	10.3	8.2	11.2	8.4
19	3.1	2.2	10.7	9.4	8.7	8.4	9.7	9.3	9.7	8.0	11.1	8.2
20	3.8	2.7	11.0	9.5	8.8	8.4	9.9	9.4	10.0	8.0	11.0	8.2
21	4.5	3.3	11.1	9.8	8.9	8.6	9.6	8.8	9.8	8.2	10.8	8.3
22	5.7	4.0	11.0	10.1	9.7	8.7	8.8	8.5	11.2	8.4	11.4	8.4
23	6.9	4.4	11.0	10.0	10.3	9.6	8.9	8.6	10.0	8.8	11.7	8.4
24	8.3	4.9	11.3	10.2	10.6	10.0	8.9	8.7	10.7	8.7	11.6	8.5
25	8.6	5.0	11.2	10.2	10.7	10.0	8.7	8.3	10.7	9.0	11.0	8.5
26	8.2	5.0	11.3	10.2	10.8	10.1	8.6	8.4	9.9	8.6	10.6	8.4
27	9.2	5.6	10.8	10.1	10.5	9.9	8.6	8.4	8.6	7.9	10.9	8.2
28	---	7.0	11.4	10.2	10.1	9.5	8.5	---	9.0	8.0	10.4	7.9
29	---	---	11.6	10.8	10.3	9.4	---	---	---	---	9.8	7.6
30	---	---	11.7	10.8	10.0	9.3	---	---	---	---	8.8	7.0
31	---	---	---	---	9.8	9.2	---	---	---	---	8.8	6.9
Month	---	---	---	---	12.2	8.4	---	---	---	---	12.0	6.9

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	8.1	7.0	9.4	7.8	9.8	6.9	---	---	---	---	9.5	6.7
2	7.7	7.0	9.3	7.7	8.8	6.6	---	---	---	---	8.5	6.3
3	8.1	6.9	9.6	7.6	8.8	6.3	---	---	---	---	8.3	6.0
4	8.1	7.3	9.5	7.5	9.1	6.4	---	---	---	---	8.5	6.2
5	8.5	7.4	9.2	7.3	9.7	6.1	---	---	---	---	8.7	6.0
6	8.9	7.4	9.1	7.5	10.1	6.0	---	---	---	---	8.9	6.3
7	8.5	7.3	9.2	7.5	10.6	6.0	---	---	---	---	8.9	6.4
8	8.4	6.9	9.0	7.5	10.2	6.2	---	---	---	---	8.2	6.5
9	8.5	6.7	8.3	7.2	10.6	6.3	---	---	---	---	9.1	6.8
10	8.0	6.7	8.3	6.9	10.0	6.6	---	---	---	---	9.2	7.1
11	7.3	6.5	8.8	7.2	9.9	7.1	---	---	---	---	9.3	7.0
12	7.6	6.7	9.0	7.5	10.3	7.3	---	---	---	---	8.9	7.0
13	7.8	7.0	9.2	7.3	10.4	7.2	---	---	---	---	9.3	6.9
14	8.0	7.0	9.6	7.0	9.9	6.8	---	---	---	---	9.5	7.0
15	8.0	7.0	9.8	6.6	9.4	6.1	---	---	---	---	9.3	6.8
16	8.0	6.9	9.4	6.2	8.9	5.6	---	---	---	---	9.0	6.7
17	8.0	6.7	8.4	6.2	9.0	6.2	---	---	---	---	8.3	6.6
18	7.7	6.5	8.9	6.2	---	---	---	---	---	---	7.9	6.3
19	7.5	6.2	8.7	6.6	---	---	---	---	9.8	---	7.8	6.3
20	7.0	6.0	9.7	6.6	---	---	---	---	9.5	5.8	7.8	6.2
21	7.5	6.2	9.9	7.2	---	---	---	---	9.0	5.6	7.9	6.0
22	8.2	6.9	9.9	7.3	---	---	---	---	8.9	6.1	8.5	6.2
23	8.8	7.3	10.8	7.4	---	---	---	---	9.2	6.2	9.2	6.5
24	9.0	7.6	10.7	7.7	---	---	---	---	9.6	6.1	9.5	6.5
25	9.4	7.2	8.8	7.4	---	---	---	---	10.0	5.7	9.4	6.7
26	8.8	6.7	9.3	7.0	---	---	---	---	9.2	5.6	10.2	6.4
27	7.8	6.0	8.6	7.0	---	---	---	---	9.4	5.9	10.0	6.5
28	7.8	5.6	9.4	7.1	---	---	---	---	9.7	6.0	9.2	6.2
29	8.6	7.0	9.6	7.4	---	---	---	---	9.3	6.6	9.0	6.0
30	9.3	7.5	10.3	7.6	---	---	---	---	9.1	6.6	8.2	5.8
31	---	---	10.5	7.2	---	---	---	---	9.7	6.8	---	---
Month	9.4	5.6	10.8	6.2	---	---	---	---	---	---	10.2	5.8

11273400 San Joaquin River above Merced River, near Newman, CA—Continued



11273400 San Joaquin River above Merced River, near Newman, CA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
(NOT PREVIOUSLY PUBLISHED)**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	---	---	---	---	---	---	1,500	1,280
2	---	---	---	---	---	---	---	---	---	---	1,450	1,280
3	---	---	---	---	---	---	---	---	---	---	1,730	1,450
4	---	---	---	---	---	---	---	---	---	---	1,800	1,650
5	---	---	---	---	---	---	---	---	---	---	1,720	1,640
6	---	---	---	---	---	---	---	---	---	---	1,740	1,690
7	---	---	---	---	---	---	---	---	---	---	1,690	1,530
8	---	---	---	---	---	---	---	---	---	---	1,720	1,570
9	---	---	---	---	---	---	---	---	---	---	1,690	1,620
10	---	---	---	---	---	---	---	---	---	---	2,250	1,660
11	---	---	---	---	---	---	---	---	---	---	2,420	2,250
12	---	---	---	---	---	---	---	---	---	---	2,250	1,770
13	---	---	---	---	---	---	---	---	---	---	1,770	1,560
14	---	---	---	---	---	---	---	---	---	---	1,790	1,580
15	---	---	---	---	---	---	---	---	---	---	1,830	1,660
16	---	---	---	---	---	---	---	---	---	---	1,810	1,650
17	---	---	---	---	---	---	---	---	---	---	2,080	1,780
18	---	---	---	---	---	---	---	---	---	---	2,540	2,070
19	---	---	---	---	---	---	---	---	---	---	2,600	2,360
20	---	---	---	---	---	---	---	---	---	---	2,360	2,170
21	---	---	---	---	---	---	---	---	---	---	2,180	2,110
22	---	---	---	---	---	---	---	---	---	---	2,170	2,060
23	---	---	---	---	---	---	---	---	---	---	2,090	1,980
24	---	---	---	---	---	---	---	---	---	---	2,320	2,060
25	---	---	---	---	---	---	---	---	---	---	2,260	2,090
26	---	---	---	---	---	---	---	---	---	---	2,310	1,990
27	---	---	---	---	---	---	---	---	---	---	2,000	1,740
28	---	---	---	---	---	---	---	---	---	---	1,800	1,710
29	---	---	---	---	---	---	---	---	1,700	1,500	1,920	1,770
30	---	---	---	---	---	---	---	---	1,640	1,430	1,920	1,830
31	---	---	---	---	---	---	---	---	1,530	1,430	---	---
Month	---	---	---	---	---	---	---	---	---	---	2,600	1,280

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

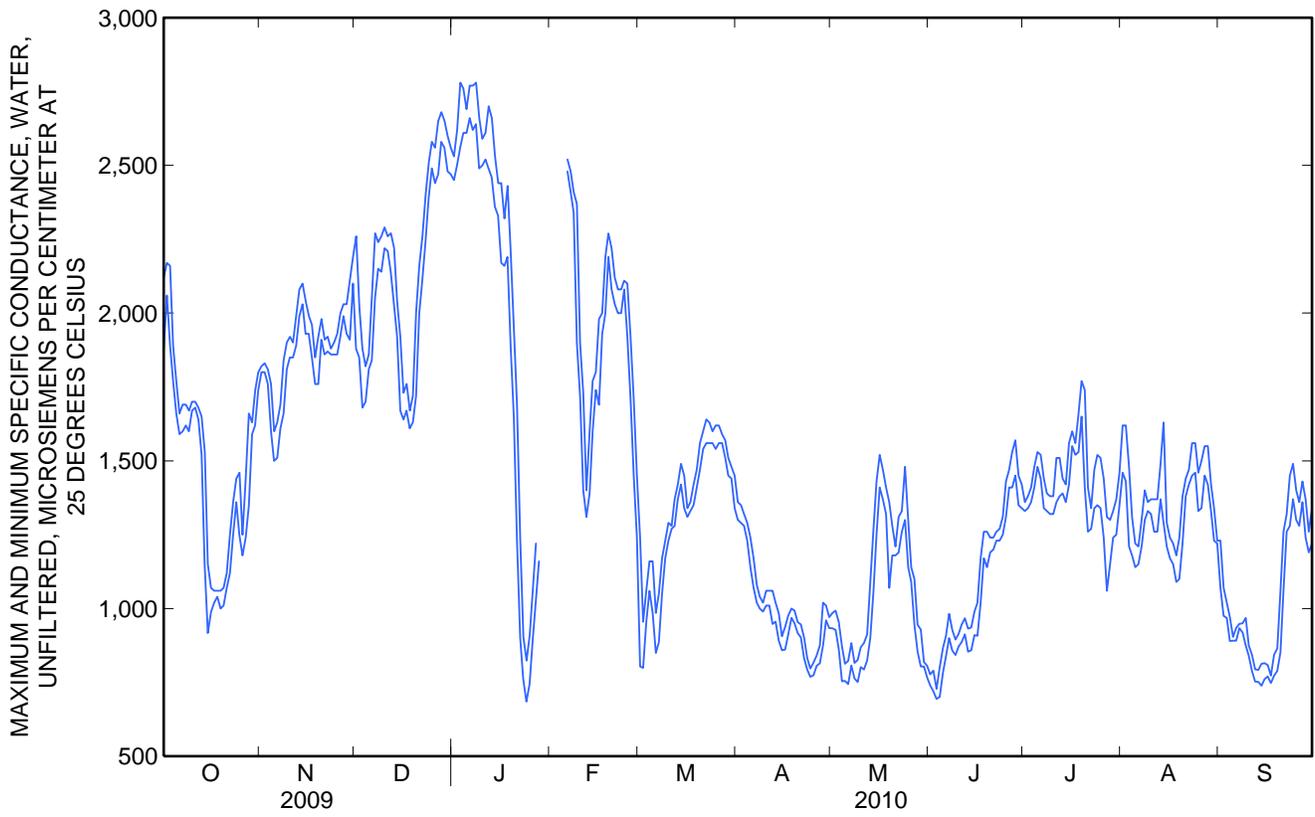
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	2,120	1,880	1,820	1,800	2,260	1,880	2,530	2,450	---	---	1,240	804
2	2,170	2,060	1,830	1,800	2,020	1,850	2,620	2,500	---	---	955	799
3	2,160	1,890	1,810	1,760	1,880	1,680	2,780	2,560	---	---	1,060	955
4	1,890	1,770	1,760	1,600	1,820	1,700	2,760	2,610	---	---	1,160	1,060
5	1,770	1,660	1,600	1,500	1,860	1,810	2,690	2,610	---	---	1,160	985
6	1,660	1,590	1,630	1,510	2,060	1,840	2,770	2,660	2,520	2,480	985	850
7	1,690	1,600	1,690	1,610	2,270	2,050	2,770	2,620	2,480	2,410	1,050	886
8	1,690	1,620	1,840	1,660	2,240	2,150	2,780	2,640	2,410	2,340	1,170	1,050
9	1,670	1,600	1,900	1,810	2,260	2,140	2,660	2,490	2,370	1,900	1,230	1,170
10	1,700	1,670	1,920	1,850	2,290	2,220	2,590	2,500	1,900	1,720	1,290	1,230
11	1,700	1,680	1,900	1,850	2,260	2,210	2,610	2,520	1,730	1,400	1,280	1,270
12	1,680	1,640	1,990	1,890	2,270	2,140	2,700	2,490	1,400	1,310	1,370	1,280
13	1,650	1,520	2,080	1,990	2,220	2,030	2,660	2,460	1,600	1,390	1,420	1,370
14	1,530	1,150	2,100	2,030	2,040	1,920	2,530	2,360	1,770	1,600	1,490	1,420
15	1,150	917	2,040	1,930	1,920	1,670	2,440	2,330	1,800	1,740	1,450	1,340
16	1,070	988	1,990	1,930	1,730	1,640	2,440	2,170	1,980	1,690	1,340	1,310
17	1,060	1,020	1,960	1,850	1,760	1,670	2,320	2,160	2,000	1,930	1,360	1,330
18	1,060	1,040	1,850	1,760	1,670	1,610	2,430	2,190	2,190	2,000	1,420	1,350
19	1,060	1,000	1,920	1,760	1,720	1,630	2,200	1,890	2,270	2,190	1,470	1,410
20	1,070	1,010	1,980	1,910	2,000	1,720	1,940	1,650	2,220	2,080	1,560	1,470
21	1,120	1,070	1,910	1,860	2,160	2,000	1,690	1,230	2,120	2,030	1,600	1,540
22	1,250	1,120	1,920	1,870	2,260	2,110	1,240	901	2,080	2,000	1,640	1,560
23	1,360	1,250	1,880	1,860	2,400	2,240	904	762	2,080	2,000	1,630	1,560
24	1,440	1,360	1,900	1,860	2,510	2,390	824	685	2,110	2,080	1,600	1,560
25	1,460	1,250	1,930	1,860	2,580	2,490	910	744	2,100	1,920	1,620	1,540
26	1,250	1,180	2,000	1,920	2,560	2,440	1,060	896	1,920	1,710	1,620	1,560
27	1,440	1,240	2,030	1,990	2,650	2,470	1,220	1,030	1,710	1,450	1,590	1,560
28	1,660	1,350	2,030	1,930	2,680	2,580	---	1,160	1,450	1,240	1,570	1,510
29	1,630	1,590	2,110	1,910	2,650	2,560	---	---	---	---	1,510	1,450
30	1,740	1,620	2,190	2,100	2,600	2,480	---	---	---	---	1,480	1,440
31	1,800	1,740	---	---	2,560	2,470	---	---	---	---	1,450	1,340
Month	2,170	917	2,190	1,500	2,680	1,610	---	---	---	---	1,640	799

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	1,360	1,300	985	933	777	740	1,360	1,330	1,620	1,460	1,230	1,070
2	1,350	1,290	993	928	790	720	1,380	1,340	1,620	1,430	1,070	975
3	1,320	1,280	954	862	728	694	1,410	1,360	1,480	1,210	1,020	968
4	1,290	1,230	872	754	801	701	1,480	1,410	1,310	1,180	972	890
5	1,240	1,140	813	755	866	782	1,530	1,480	1,220	1,140	904	891
6	1,170	1,070	823	744	907	838	1,520	1,440	1,210	1,150	934	891
7	1,080	1,020	883	807	982	900	1,440	1,340	1,300	1,210	948	934
8	1,040	1,000	816	763	927	858	1,390	1,330	1,400	1,300	950	919
9	1,020	990	826	751	895	843	1,380	1,320	1,360	1,330	968	875
10	1,060	1,010	869	802	915	872	1,380	1,320	1,370	1,320	875	840
11	1,060	1,010	883	794	946	887	1,510	1,360	1,370	1,260	844	789
12	1,060	948	912	824	967	913	1,510	1,380	1,370	1,260	794	753
13	1,020	956	1,090	901	932	854	1,440	1,390	1,490	1,370	792	752
14	984	892	1,270	1,060	936	859	1,420	1,360	1,630	1,290	813	739
15	906	859	1,430	1,250	989	910	1,560	1,420	1,290	1,210	815	761
16	938	861	1,520	1,410	1,020	908	1,600	1,550	1,240	1,170	809	770
17	977	914	1,470	1,370	1,170	1,020	1,560	1,520	1,220	1,150	773	748
18	1,000	969	1,410	1,320	1,260	1,170	1,660	1,530	1,180	1,090	844	773
19	993	950	1,360	1,070	1,260	1,140	1,770	1,650	1,240	1,100	865	789
20	954	917	1,280	1,180	1,240	1,190	1,740	1,410	1,380	1,220	1,060	852
21	946	902	1,210	1,180	1,240	1,200	1,410	1,260	1,440	1,380	1,260	1,060
22	902	832	1,310	1,190	1,260	1,230	1,340	1,270	1,470	1,420	1,320	1,260
23	832	793	1,330	1,260	1,270	1,230	1,470	1,340	1,560	1,450	1,450	1,280
24	797	769	1,480	1,300	1,310	1,250	1,520	1,350	1,560	1,460	1,490	1,370
25	817	774	1,300	1,140	1,430	1,310	1,510	1,340	1,460	1,330	1,400	1,300
26	841	806	1,140	1,090	1,470	1,410	1,440	1,240	1,500	1,340	1,360	1,280
27	875	815	1,100	945	1,530	1,410	1,310	1,060	1,550	1,450	1,430	1,360
28	1,020	875	945	854	1,570	1,450	1,300	1,150	1,550	1,420	1,370	1,240
29	1,010	960	929	804	1,450	1,350	1,330	1,240	1,420	1,330	1,260	1,190
30	971	934	819	804	1,420	1,340	1,370	1,250	1,340	1,230	1,340	1,220
31	---	---	806	767	---	---	1,460	1,350	1,230	1,220	---	---
Month	1,360	769	1,520	744	1,570	694	1,770	1,060	1,630	1,090	1,490	739

11273400 San Joaquin River above Merced River, near Newman, CA—Continued



11273400 San Joaquin River above Merced River, near Newman, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
(NOT PREVIOUSLY PUBLISHED)

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	---	---	---	---	---	---	---	---	29.1	22.5
2	---	---	---	---	---	---	---	---	---	---	28.0	23.0
3	---	---	---	---	---	---	---	---	---	---	29.1	22.6
4	---	---	---	---	---	---	---	---	---	---	28.6	21.7
5	---	---	---	---	---	---	---	---	---	---	27.7	19.5
6	---	---	---	---	---	---	---	---	---	---	27.3	20.6
7	---	---	---	---	---	---	---	---	---	---	26.7	20.0
8	---	---	---	---	---	---	---	---	---	---	27.6	19.6
9	---	---	---	---	---	---	---	---	---	---	27.3	20.4
10	---	---	---	---	---	---	---	---	---	---	28.0	20.6
11	---	---	---	---	---	---	---	---	---	---	28.3	20.9
12	---	---	---	---	---	---	---	---	---	---	28.0	22.3
13	---	---	---	---	---	---	---	---	---	---	26.4	21.2
14	---	---	---	---	---	---	---	---	---	---	26.8	21.4
15	---	---	---	---	---	---	---	---	---	---	26.9	20.1
16	---	---	---	---	---	---	---	---	---	---	27.3	20.6
17	---	---	---	---	---	---	---	---	---	---	27.9	20.4
18	---	---	---	---	---	---	---	---	---	---	29.5	21.0
19	---	---	---	---	---	---	---	---	---	---	29.3	22.3
20	---	---	---	---	---	---	---	---	---	---	28.2	21.3
21	---	---	---	---	---	---	---	---	---	---	28.4	21.2
22	---	---	---	---	---	---	---	---	---	---	28.5	21.5
23	---	---	---	---	---	---	---	---	---	---	28.6	21.2
24	---	---	---	---	---	---	---	---	---	---	28.5	21.1
25	---	---	---	---	---	---	---	---	---	---	27.5	20.4
26	---	---	---	---	---	---	---	---	---	---	28.1	20.5
27	---	---	---	---	---	---	---	---	---	---	28.3	21.3
28	---	---	---	---	---	---	---	---	27.9	---	27.2	21.8
29	---	---	---	---	---	---	---	---	29.5	21.9	23.1	19.2
30	---	---	---	---	---	---	---	---	30.1	23.3	20.9	16.3
31	---	---	---	---	---	---	---	---	28.4	22.6	---	---
Month	---	---	---	---	---	---	---	---	---	---	29.5	16.3

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

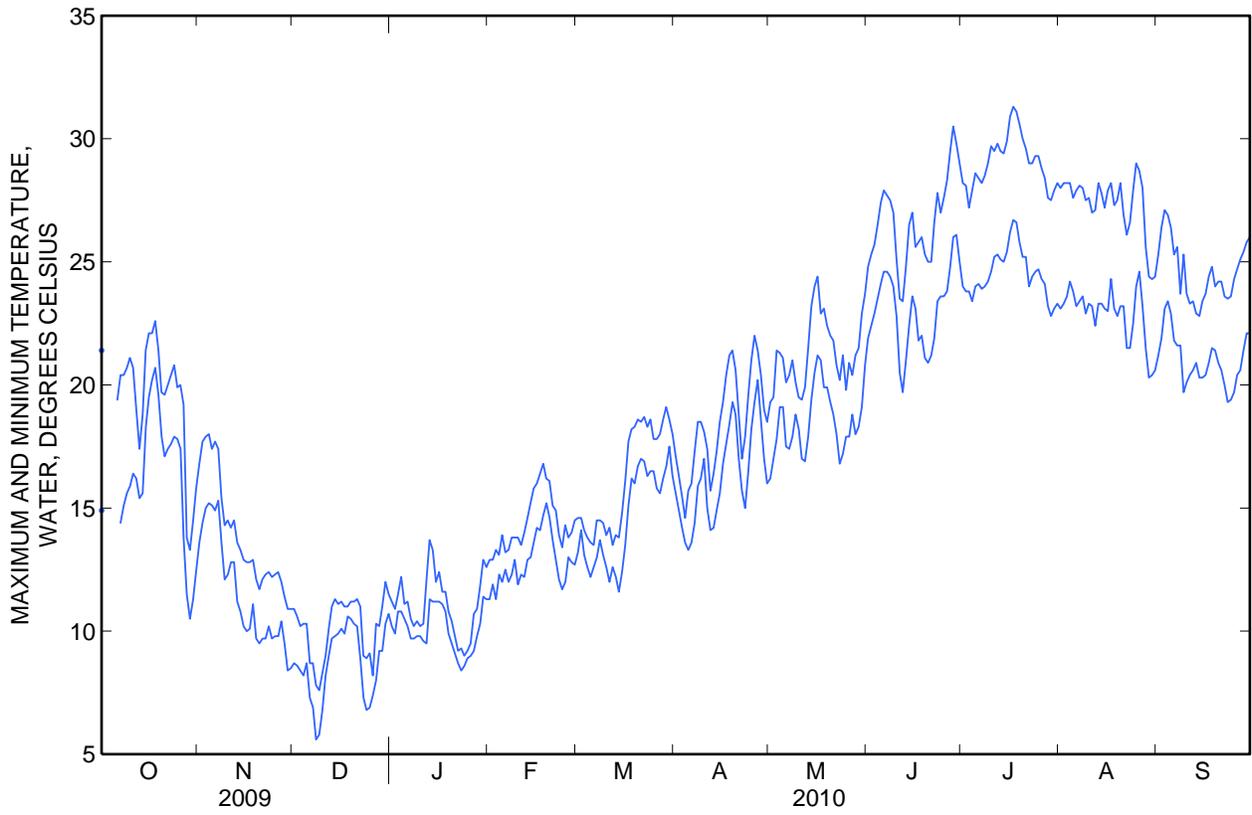
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	21.4	14.9	16.8	13.6	10.9	8.7	11.2	10.2	12.9	11.3	14.6	13.2
2	---	---	17.7	14.4	10.6	8.6	10.9	9.9	12.9	11.9	14.6	14.1
3	---	---	17.9	15.0	10.2	8.4	11.5	10.8	13.3	11.3	14.1	13.1
4	---	---	18.0	15.2	10.3	8.2	12.2	10.8	13.1	12.3	13.8	12.6
5	---	---	17.4	15.1	10.3	8.7	11.1	10.5	13.9	12.0	13.6	12.2
6	19.4	---	17.7	14.9	8.7	7.3	11.2	10.2	13.2	12.5	13.5	12.6
7	20.4	14.4	17.4	15.3	8.7	6.9	10.5	9.7	13.3	12.0	14.5	13.0
8	20.4	15.1	15.4	13.6	7.8	5.6	10.2	9.7	13.8	12.3	14.5	13.7
9	20.7	15.6	14.3	12.1	7.6	5.8	10.4	9.8	13.8	12.9	14.4	13.1
10	21.1	15.9	14.5	12.3	8.3	6.8	10.2	9.8	13.8	11.9	13.9	12.6
11	20.7	16.4	14.2	12.8	9.0	8.2	10.3	9.6	13.5	12.3	14.2	12.0
12	19.0	16.2	14.5	12.8	10.1	9.0	12.1	9.5	14.0	12.2	13.5	12.6
13	17.4	15.4	13.6	11.2	11.0	9.7	13.7	11.3	14.6	12.9	13.9	12.2
14	18.8	15.6	13.3	10.8	11.3	9.8	13.3	11.2	15.2	13.0	13.8	11.6
15	21.4	18.3	12.9	10.2	11.1	9.9	12.0	11.2	15.8	13.6	14.8	12.4
16	22.1	19.5	12.8	10.0	11.2	10.1	12.4	11.2	16.0	14.2	16.1	13.5
17	22.1	20.2	12.8	10.1	11.0	9.9	11.6	11.1	16.4	14.1	17.7	15.1
18	22.6	20.7	12.9	11.1	11.0	10.6	11.6	10.8	16.8	14.7	18.2	16.2
19	21.4	19.6	12.1	9.7	11.2	10.5	10.8	9.9	16.2	15.2	18.3	16.0
20	19.7	17.9	11.7	9.5	11.2	10.3	10.4	9.5	16.1	14.6	18.6	16.7
21	19.6	17.1	12.1	9.7	11.3	10.2	9.8	9.1	15.1	13.7	18.5	17.0
22	20.0	17.4	12.3	9.7	11.0	8.9	9.2	8.7	14.9	12.9	18.7	16.9
23	20.4	17.6	12.4	10.2	9.0	7.3	9.3	8.4	13.9	12.1	18.3	16.3
24	20.8	17.9	12.2	9.7	8.9	6.8	9.0	8.6	13.4	11.7	18.6	16.5
25	19.9	17.8	12.3	9.8	9.1	6.9	9.2	8.9	14.3	12.0	17.8	16.5
26	20.0	17.4	12.4	9.8	8.2	7.4	9.5	9.0	13.8	13.0	17.8	15.8
27	19.2	13.8	12.0	10.4	10.3	8.0	10.7	9.2	14.0	12.8	18.0	15.6
28	13.8	11.5	11.4	9.5	10.2	9.2	10.9	9.8	14.5	12.7	18.6	16.2
29	13.3	10.5	10.9	8.4	11.0	9.2	11.8	10.3	---	---	19.1	16.7
30	14.5	11.3	10.9	8.5	12.0	10.3	12.9	11.4	---	---	18.6	17.5
31	15.8	12.5	---	---	11.5	10.7	12.6	11.3	---	---	18.0	16.3
Month	---	---	18.0	8.4	12.0	5.6	13.7	8.4	16.8	11.3	19.1	11.6

11273400 San Joaquin River above Merced River, near Newman, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	17.1	15.6	19.3	16.2	24.8	21.9	28.2	24.0	28.0	23.1	25.3	21.2
2	16.3	14.9	19.5	17.0	25.3	22.4	28.1	23.8	28.2	23.3	26.4	21.9
3	15.5	14.2	21.4	17.8	25.7	22.9	27.2	23.8	28.2	23.6	27.1	23.1
4	14.6	13.6	21.3	19.1	26.5	23.5	27.9	23.4	28.2	24.2	26.9	23.4
5	15.7	13.3	21.1	19.1	27.4	24.1	28.6	24.0	27.6	23.8	26.4	22.9
6	16.0	13.6	20.1	17.5	27.9	24.6	28.4	24.1	27.9	23.2	25.3	21.8
7	17.3	14.4	20.4	17.4	27.7	24.6	28.2	23.9	28.1	23.4	25.6	21.6
8	18.5	15.9	21.0	17.9	27.5	24.4	28.5	24.0	28.0	23.6	23.7	21.6
9	18.5	16.2	20.1	18.8	27.0	24.0	29.0	24.2	27.5	22.9	25.3	19.7
10	18.1	17.0	19.5	18.2	25.1	22.8	29.7	24.6	27.6	23.3	23.7	20.1
11	17.4	15.0	19.4	17.0	23.5	20.5	29.5	25.2	27.0	23.2	23.3	20.4
12	15.7	14.1	19.9	16.9	23.4	19.7	29.8	25.3	27.1	22.4	23.4	20.6
13	16.4	14.2	21.5	17.9	24.8	21.0	29.5	25.1	28.2	23.3	22.9	20.9
14	17.3	14.9	23.2	19.4	26.5	22.4	29.4	25.0	27.8	23.3	22.8	20.3
15	18.5	15.6	24.0	20.5	27.0	23.6	29.9	25.4	27.2	23.1	23.4	20.3
16	19.3	16.8	24.4	21.2	25.6	23.1	30.9	26.2	27.9	23.0	23.7	20.4
17	20.4	17.6	22.9	21.0	25.8	21.8	31.3	26.7	28.2	24.3	24.4	20.9
18	21.2	18.4	23.1	19.9	26.0	22.0	31.1	26.6	27.3	23.1	24.8	21.5
19	21.4	19.3	22.4	19.9	25.3	21.1	30.6	25.8	27.5	22.8	24.0	21.4
20	20.6	18.8	22.0	19.3	25.0	20.9	30.0	25.2	28.2	23.2	24.2	20.9
21	18.8	17.0	21.8	18.8	25.0	21.2	29.6	25.2	26.9	23.2	24.2	20.6
22	17.0	15.7	20.8	18.0	26.6	21.9	29.0	24.0	26.1	21.5	23.6	20.0
23	17.9	15.0	20.2	16.8	27.8	23.4	29.0	24.4	26.6	21.5	23.5	19.3
24	19.6	16.5	21.2	17.2	27.0	23.6	29.3	24.6	27.9	22.5	23.6	19.4
25	21.0	18.2	19.8	17.9	27.6	23.6	29.3	24.7	29.0	24.0	24.3	19.7
26	22.0	19.3	20.9	17.9	28.3	23.8	28.8	24.3	28.7	24.6	24.7	20.4
27	21.4	20.2	20.4	18.8	29.5	24.8	28.4	24.1	28.0	23.2	25.1	20.6
28	20.4	18.6	21.2	18.0	30.5	26.0	27.6	23.2	25.6	21.5	25.4	21.4
29	19.0	17.0	21.5	18.3	29.8	26.1	27.5	22.8	24.4	20.3	25.8	22.1
30	18.5	16.0	22.9	19.1	29.0	25.0	27.9	23.1	24.3	20.4	26.0	22.1
31	---	---	23.7	20.8	---	---	28.2	23.3	24.4	20.6	---	---
Month	22.0	13.3	24.4	16.2	30.5	19.7	31.3	22.8	29.0	20.3	27.1	19.3

11273400 San Joaquin River above Merced River, near Newman, CA—Continued



11273400 San Joaquin River above Merced River, near Newman, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

[ft, feet; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

Sample date-time	Dissolved oxygen, water, unfiltered, mg/L (00300)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Depth to bottom at sample location, ft (81903)	Sampling depth, ft (00003)	Stream width, ft (00004)	Location in cross section, distance from left bank looking downstream, ft (00009)
06-17-2010 1059	7.0	1,180	22.8	2.30	1.50	100	5.00
06-17-2010 1100	7.0	1,190	22.8	4.80	3.80	100	15.0
06-17-2010 1101	7.0	1,190	22.8	4.80	1.50	100	15.0
06-17-2010 1102	7.1	1,190	22.8	5.00	4.00	100	25.0
06-17-2010 1103	7.1	1,190	22.8	5.00	1.50	100	25.0
06-17-2010 1104	7.1	1,190	22.8	5.40	4.30	100	35.0
06-17-2010 1105	7.1	1,190	22.8	5.40	1.50	100	35.0
06-17-2010 1106	7.1	1,190	22.8	4.90	3.90	100	45.0
06-17-2010 1107	7.1	1,190	22.8	4.90	1.50	100	45.0
06-17-2010 1108	7.1	1,190	22.8	4.60	3.50	100	55.0
06-17-2010 1109	7.1	1,190	22.8	4.60	1.10	100	55.0
06-17-2010 1110	7.1	1,190	22.8	4.00	3.20	100	65.0
06-17-2010 1111	7.2	1,190	22.8	4.00	1.00	100	65.0
06-17-2010 1112	7.2	1,190	22.8	3.80	3.00	100	75.0
06-17-2010 1113	7.2	1,190	22.8	3.80	1.00	100	75.0
06-17-2010 1114	7.2	1,190	22.8	3.50	2.80	100	85.0
06-17-2010 1115	7.2	1,190	22.8	3.50	1.00	100	85.0
06-17-2010 1116	7.3	1,190	22.9	1.80	.80	100	95.0
09-09-2010 1243	7.9	975	21.4	2.05	.41	120	6.00
09-09-2010 1244	7.9	975	21.4	2.05	1.64	120	6.00
09-09-2010 1245	8.1	973	21.5	3.10	.62	120	18.0
09-09-2010 1246	8.0	975	21.5	3.10	2.48	120	18.0
09-09-2010 1247	8.1	975	21.5	3.75	.75	120	30.0
09-09-2010 1248	8.0	976	21.5	3.75	3.00	120	30.0
09-09-2010 1249	8.1	975	21.5	3.35	.67	120	42.0
09-09-2010 1250	8.1	976	21.5	3.35	2.68	120	42.0
09-09-2010 1251	8.1	974	21.5	3.50	.70	120	54.0
09-09-2010 1252	8.1	975	21.5	3.50	2.80	120	54.0
09-09-2010 1253	8.1	973	21.5	3.45	.69	120	66.0
09-09-2010 1254	8.1	975	21.5	3.45	2.76	120	66.0
09-09-2010 1255	8.1	973	21.6	3.30	.66	120	78.0
09-09-2010 1256	8.1	974	21.5	3.30	2.64	120	78.0
09-09-2010 1257	8.1	972	21.6	3.35	.67	120	90.0
09-09-2010 1258	8.1	974	21.6	3.35	2.68	120	90.0
09-09-2010 1259	8.1	973	21.6	3.20	.64	120	102
09-09-2010 1300	8.1	974	21.6	3.20	2.40	120	102
09-09-2010 1301	8.1	973	21.6	2.85	.57	120	114
09-09-2010 1302	8.1	974	21.6	2.85	2.28	120	114

Note: Instantaneous discharge at the mean time of cross-sectional measurements: June 17, 567 ft³/s; Sept. 9, 353 ft³/s.