



Water-Data Report 2010

11290000 Tuolumne River at Modesto, CA

San Joaquin River Basin

LOCATION.--(REVISED) Lat 37°37'38", long 120°59'00" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.33, T.3 S., R.9 E., Stanislaus County, CA, Hydrologic Unit 18040002, on left bank, 150 ft downstream from Dry Creek, 0.2 mi upstream from 9th Street Bridge.

DRAINAGE AREA.--1,884 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1878-84, 1891-94, 1897 (gage heights only), January 1895 to December 1896, April 1940 to current year. Monthly discharge only for some periods, published in WSP 1315-A. Water-quality data for the period October 1985 to March 1987 are available in U.S. Geological Survey Open-File Report 88-479. Water-quality data for the period April 1987 to September 1988 are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929 (levels by Modesto Irrigation District). Prior to July 11, 1947, at site 2,600 ft downstream at same datum; July 11, 1947, to Nov. 16, 1953, at site 1,900 ft downstream at same datum. Nov. 17, 1953 to Apr. 28, 2004, at site 900 ft upstream, at same datum. Gage was reestablished on May 28, 2010, 1,000 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by reservoirs and powerplants upstream from station. Several major diversions for power, irrigation, and municipal supply upstream of station, including Modesto and Turlock Canals (stations 11289000 and 11289500). See REMARKS for Tuolumne River below La Grange Dam (station 11289650) and schematic diagram of Tuolumne River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--(Water years 1896, and since water year 1941) Maximum discharge observed, 57,000 ft³/s, Dec. 9, 1950, elevation, 69.19 ft, maximum gage height, 71.21 ft, Jan. 4, 1997 (backwater caused by debris on railroad trestle 2,500 ft downstream of gage); minimum daily, 56 ft³/s, Aug. 6, 1977.

11290000 Tuolumne River at Modesto, 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	244	319	304	304	295	e320	296	e2,050	2,130	3,310	532	402
2	231	322	307	303	291	e305	486	e2,200	2,120	2,890	492	405
3	219	316	305	304	288	e300	651	e2,250	2,120	2,410	461	426
4	225	316	304	305	282	e299	706	e2,450	2,250	2,010	501	415
5	231	312	305	304	290	e302	741	e3,200	3,380	1,710	502	443
6	225	331	307	304	306	e303	722	e3,250	3,140	1,350	460	460
7	224	305	333	303	308	e301	735	e3,260	2,360	1,260	445	416
8	232	299	319	e296	767	e304	723	e3,300	2,000	1,130	436	430
9	241	300	306	e290	519	e301	698	e3,280	1,850	1,010	460	437
10	244	302	305	e286	426	e300	743	e3,290	2,440	897	426	437
11	250	302	326	e285	457	e298	813	e3,300	4,080	804	432	451
12	287	307	341	e283	368	e300	820	e3,250	4,400	809	437	470
13	544	306	329	e281	332	e302	1,050	e2,750	4,420	831	428	440
14	676	303	322	e282	314	e305	1,200	e2,600	5,060	818	426	439
15	748	303	315	e280	302	e310	1,210	e2,500	4,430	813	432	423
16	801	304	309	279	e303	e360	1,260	e2,250	3,770	771	456	417
17	789	304	305	293	e308	e320	1,450	e2,240	3,130	758	430	428
18	782	305	305	345	e304	e300	1,610	e2,200	2,270	781	427	427
19	786	305	304	389	e303	e400	1,730	e2,200	1,890	773	426	436
20	786	304	303	411	e301	e660	1,930	e2,190	1,670	719	418	438
21	789	306	e305	e470	e298	e740	e2,050	e2,200	1,510	709	419	425
22	765	306	e310	e560	e300	e720	e2,070	e2,160	1,450	715	418	414
23	741	307	307	e755	e310	e680	e2,050	e3,000	1,490	701	441	474
24	548	309	306	735	e370	505	e2,060	e3,100	1,510	679	414	457
25	389	306	306	458	e316	374	e2,050	e3,150	1,540	690	419	453
26	339	304	306	372	e308	323	e1,700	e3,200	1,790	695	425	463
27	329	304	319	344	e320	293	e1,650	e3,100	1,940	674	428	446
28	322	307	309	332	e305	292	e1,600	e2,700	1,830	671	436	418
29	330	305	309	322	---	280	e1,630	2,440	2,300	682	440	430
30	339	304	309	310	---	274	e1,850	2,170	3,290	615	477	436
31	323	---	307	299	---	271	---	2,140	---	568	454	---
Total	13,979	9,223	9,647	11,084	9,591	11,342	38,284	83,370	77,560	33,253	13,798	13,056
Mean	451	307	311	358	343	366	1,276	2,689	2,585	1,073	445	435
Max	801	331	341	755	767	740	2,070	3,300	5,060	3,310	532	474
Min	219	299	303	279	282	271	296	2,050	1,450	568	414	402
Ac-ft	27,730	18,290	19,130	21,990	19,020	22,500	75,940	165,400	153,800	65,960	27,370	25,900

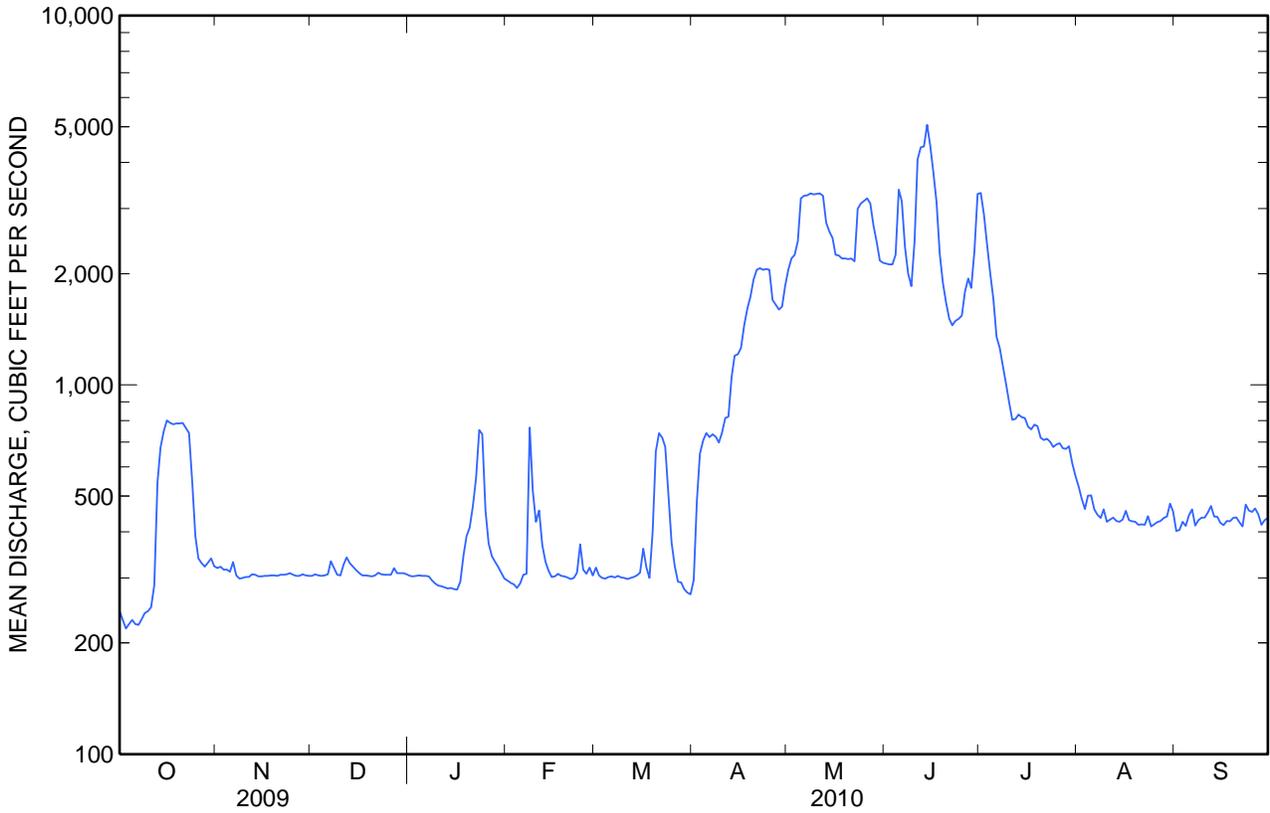
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	809	901	1,400	1,807	2,028	2,025	1,950	1,959	1,553	648	383	538
Max	4,760	4,124	8,677	15,500	8,782	7,658	9,268	10,420	7,665	4,244	2,225	4,041
(WY)	(1984)	(1951)	(1951)	(1997)	(1997)	(1983)	(1983)	(1983)	(1942)	(1983)	(1983)	(1983)
Min	78.2	93.1	110	154	166	199	169	138	94.5	78.8	67.5	72.6
(WY)	(1978)	(1978)	(1978)	(1991)	(1991)	(1961)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)

11290000 Tuolumne River at Modesto, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1940 - 2010	
Annual total	119,585		324,187			
Annual mean	328		888		1,323	
Highest annual mean					5,518	1983
Lowest annual mean					185	1989
Highest daily mean	1,300	Mar 5	5,060	Jun 14	52,900	Jan 4, 1997
Lowest daily mean	144	Aug 13	219	Oct 3	56	Aug 6, 1977
Annual seven-day minimum	166	Aug 13	227	Oct 2	62	Aug 2, 1977
Maximum peak flow			5,240	Jun 14	57,000	Dec 9, 1950
Maximum peak stage			47.99	Jun 14	71.21	Jan 4, 1997
Annual runoff (ac-ft)	237,200		643,000		958,700	
10 percent exceeds	730		2,260		3,600	
50 percent exceeds	245		430		534	
90 percent exceeds	182		299		189	



11290000 Tuolumne River at Modesto, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-79, 1985-95, 2001 to current year.

CHEMICAL DATA: Water years 1985-88, 1993-95.

SEDIMENT: Water years 1985-88, 1993-95.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to September 1988, December 1988 to March 1995, December 2000 to current year.

WATER TEMPERATURE: July 1965 to April 1979, October 1985 to March 1995, December 2000 to current year.

INSTRUMENTATION.--Water-quality monitor since December 2000.

REMARKS.--Data for the period October 1985 to March 1987 are available in U.S. Geological Survey Open-File Report 88-479. Data for the period April 1987 to September 1988 are available in the files of the U.S. Geological Survey. Interruptions in record were due to recorder malfunction and a fouled probe.

Specific conductance records rated excellent except for Dec. 10-17, Sep. 19-30, which are rated good.

Water-temperature records rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 587 microsiemens, Mar. 12, 1993; minimum recorded, 22 microsiemens, Feb. 26, 27, 2001.

WATER TEMPERATURE: Maximum recorded, 34.5°C, July 3-5, 1991; minimum recorded, 3.5°C, several days during December 1990.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 190 microsiemens, Feb. 8; minimum recorded, 36 microsiemens, July 1.

WATER TEMPERATURE: Maximum recorded, 25.0°C, Aug. 26; minimum recorded, 7.3°C, Dec. 8.

11290000 Tuolumne River at Modesto, CA—Continued

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

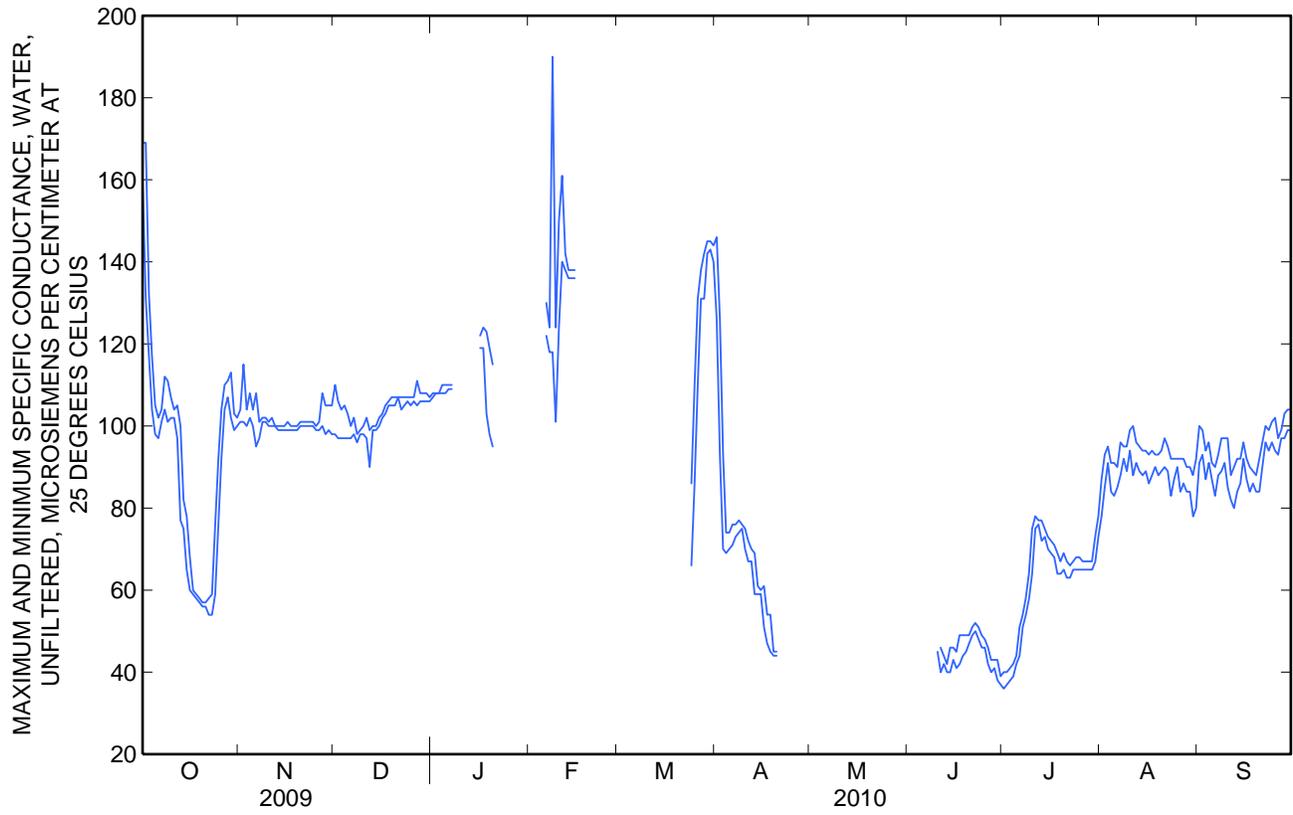
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	169	160	104	101	110	98	108	107	---	---	---	---
2	169	131	115	101	106	97	108	108	---	---	---	---
3	132	117	104	100	104	97	108	108	---	---	---	---
4	117	104	108	102	105	97	110	108	---	---	---	---
5	105	98	104	100	103	97	110	108	---	---	---	---
6	102	97	108	95	100	97	110	109	130	122	---	---
7	104	101	101	97	102	98	110	109	124	118	---	---
8	112	104	102	101	98	96	---	---	190	118	---	---
9	111	101	102	101	99	98	---	---	124	101	---	---
10	107	102	101	100	100	98	---	---	150	124	---	---
11	104	102	102	100	102	97	---	---	161	140	---	---
12	105	97	100	100	99	90	---	---	142	138	---	---
13	100	77	100	99	100	99	---	---	138	136	---	---
14	82	75	100	99	100	99	---	---	138	136	---	---
15	78	65	100	99	102	100	---	---	138	136	---	---
16	68	60	101	99	103	102	122	119	---	---	---	---
17	60	59	100	99	105	103	124	119	---	---	---	---
18	59	58	100	99	106	105	123	103	---	---	---	---
19	58	57	100	99	107	105	119	98	---	---	---	---
20	57	56	101	100	107	105	115	95	---	---	---	---
21	57	56	101	100	107	107	---	---	---	---	---	---
22	58	54	101	100	107	104	---	---	---	---	---	---
23	59	54	101	100	107	105	---	---	---	---	---	---
24	76	59	101	100	107	106	---	---	---	---	86	66
25	92	76	100	99	107	105	---	---	---	---	110	86
26	104	92	101	99	107	106	---	---	---	---	131	110
27	110	104	108	100	111	105	---	---	---	---	138	131
28	111	107	105	98	108	106	---	---	---	---	142	131
29	113	102	105	99	108	106	---	---	---	---	145	142
30	103	99	105	98	108	106	---	---	---	---	145	143
31	102	100	---	---	107	106	---	---	---	---	144	140
Month	169	54	115	95	111	90	---	---	---	---	---	---

11290000 Tuolumne River at Modesto, 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	146	126	---	---	---	---	40	36	87	78	100	91
2	126	93	---	---	---	---	40	37	93	85	99	93
3	93	70	---	---	---	---	41	38	95	91	94	87
4	74	69	---	---	---	---	42	39	91	84	96	91
5	74	70	---	---	---	---	44	42	91	83	91	87
6	76	71	---	---	---	---	51	44	90	85	90	83
7	76	73	---	---	---	---	54	51	96	88	93	88
8	77	74	---	---	---	---	58	54	95	92	97	89
9	76	75	---	---	---	---	64	58	95	89	97	91
10	75	70	---	---	---	45	75	64	99	94	97	85
11	72	67	---	---	46	40	78	75	100	88	88	82
12	70	67	---	---	44	42	77	76	96	91	90	80
13	69	59	---	---	42	40	77	72	95	89	92	84
14	61	59	---	---	46	40	75	73	94	88	92	86
15	60	59	---	---	46	43	73	70	94	89	96	92
16	61	51	---	---	45	41	72	69	93	86	92	87
17	54	47	---	---	49	42	71	68	94	88	90	84
18	54	45	---	---	49	44	69	64	93	90	89	86
19	45	44	---	---	49	45	67	64	93	88	88	84
20	45	44	---	---	49	47	69	65	94	89	92	84
21	---	---	---	---	51	49	67	63	97	90	96	90
22	---	---	---	---	52	50	66	63	95	89	100	96
23	---	---	---	---	51	48	67	65	92	83	99	94
24	---	---	---	---	49	46	68	65	92	87	101	96
25	---	---	---	---	48	46	68	65	92	90	102	94
26	---	---	---	---	46	42	67	65	92	84	97	93
27	---	---	---	---	43	40	67	65	92	86	99	97
28	---	---	---	---	43	41	67	65	90	84	103	97
29	---	---	---	---	43	38	67	65	90	84	104	99
30	---	---	---	---	39	37	73	67	88	78	104	99
31	---	---	---	---	---	---	78	73	92	80	---	---
Month	---	---	---	---	---	---	78	36	100	78	104	80

11290000 Tuolumne River at Modesto, CA—Continued



11290000 Tuolumne River at Modesto, CA—Continued

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

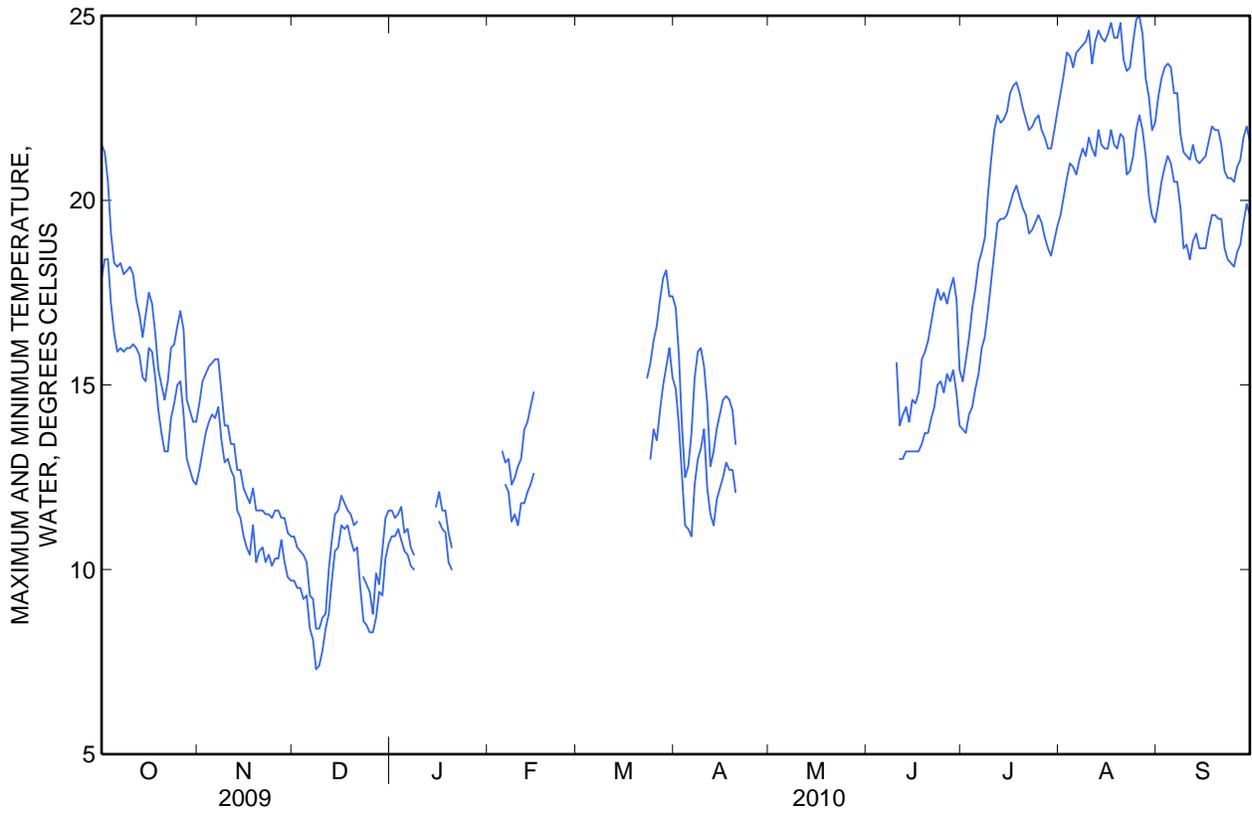
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	21.5	17.9	14.5	12.7	10.9	9.7	11.6	10.9	---	---	---	---
2	21.3	18.4	15.1	13.2	10.6	9.5	11.4	10.9	---	---	---	---
3	20.5	18.4	15.3	13.7	10.5	9.5	11.5	11.1	---	---	---	---
4	19.1	17.2	15.5	14.0	10.4	9.2	11.7	10.8	---	---	---	---
5	18.3	16.4	15.6	14.2	10.2	9.3	11.0	10.5	13.2	---	---	---
6	18.2	15.9	15.7	14.1	9.3	8.4	11.1	10.4	12.9	12.3	---	---
7	18.3	16.0	15.7	14.4	9.2	8.1	10.6	10.1	13.0	12.1	---	---
8	18.0	15.9	14.8	13.5	8.4	7.3	10.4	10.0	12.3	11.3	---	---
9	18.1	16.0	13.9	12.9	8.4	7.4	---	---	12.5	11.5	---	---
10	18.2	16.0	13.9	13.0	8.7	7.8	---	---	12.8	11.2	---	---
11	18.0	16.1	13.4	12.7	8.8	8.4	---	---	13.0	11.8	---	---
12	17.3	16.0	13.4	12.5	10.0	8.8	---	---	13.8	11.8	---	---
13	16.9	15.8	12.7	11.6	10.8	9.7	---	---	14.0	12.1	---	---
14	16.3	15.2	12.7	11.4	11.5	10.5	---	---	14.4	12.3	---	---
15	16.9	15.1	12.2	10.9	11.6	10.6	11.7	---	14.8	12.6	---	---
16	17.5	16.0	12.0	10.6	12.0	11.2	12.1	11.3	---	---	---	---
17	17.2	15.9	11.8	10.4	11.8	11.1	11.6	11.1	---	---	---	---
18	16.4	15.2	12.2	11.2	11.6	11.2	11.6	11.0	---	---	---	---
19	15.4	14.3	11.6	10.2	11.5	10.8	11.0	10.2	---	---	---	---
20	15.0	13.7	11.6	10.5	11.2	10.5	10.6	10.0	---	---	---	---
21	14.6	13.2	11.6	10.6	11.3	10.6	---	---	---	---	---	---
22	15.1	13.2	11.5	10.2	---	9.5	---	---	---	---	---	---
23	16.0	14.1	11.5	10.4	9.8	8.6	---	---	---	---	15.2	---
24	16.1	14.5	11.4	10.1	9.6	8.5	---	---	---	---	15.6	13.0
25	16.6	15.0	11.6	10.3	9.4	8.3	---	---	---	---	16.2	13.8
26	17.0	15.1	11.6	10.3	8.8	8.3	---	---	---	---	16.6	13.5
27	16.5	14.2	11.4	10.8	9.9	8.7	---	---	---	---	17.3	14.3
28	14.6	13.0	11.4	10.2	9.6	9.4	---	---	---	---	17.9	15.0
29	14.3	12.7	11.0	9.8	10.5	9.3	---	---	---	---	18.1	15.5
30	14.0	12.4	10.9	9.7	11.4	10.3	---	---	---	---	17.4	16.0
31	14.0	12.3	---	---	11.6	10.7	---	---	---	---	17.4	15.2
Month	21.5	12.3	15.7	9.7	---	7.3	---	---	---	---	---	---

11290000 Tuolumne River at Modesto, 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	14.9	---	---	---	---	15.1	13.8	22.9	19.6	22.8	19.9
2	15.8	13.9	---	---	---	---	15.7	13.7	23.4	20.1	23.3	20.5
3	13.9	12.5	---	---	---	---	16.3	14.2	24.0	20.6	23.6	20.9
4	12.5	11.2	---	---	---	---	17.1	14.4	23.9	21.0	23.7	21.2
5	12.8	11.1	---	---	---	---	17.6	14.9	23.6	20.9	23.6	21.0
6	13.7	10.9	---	---	---	---	18.3	15.3	24.0	20.7	22.9	20.5
7	15.2	12.3	---	---	---	---	18.6	16.0	24.1	21.1	22.9	20.5
8	15.9	13.0	---	---	---	---	19.0	16.3	24.2	21.4	21.8	19.8
9	16.0	13.3	---	---	---	---	20.2	17.0	24.3	21.2	21.3	18.7
10	15.5	13.8	---	---	15.6	---	21.1	17.8	24.6	21.7	21.2	18.8
11	14.5	12.2	---	---	13.9	13.0	21.9	18.6	23.7	21.4	21.1	18.4
12	12.8	11.5	---	---	14.2	13.0	22.3	19.4	24.3	21.2	21.5	18.9
13	13.2	11.2	---	---	14.4	13.2	22.1	19.5	24.6	21.9	21.1	19.1
14	13.8	11.9	---	---	14.0	13.2	22.2	19.5	24.4	21.5	21.0	18.7
15	14.2	12.2	---	---	14.6	13.2	22.4	19.6	24.3	21.4	21.1	18.7
16	14.6	12.5	---	---	14.5	13.2	22.9	19.9	24.5	21.4	21.2	18.7
17	14.7	12.9	---	---	14.8	13.2	23.1	20.2	24.8	21.9	21.6	19.2
18	14.6	12.7	---	---	15.7	13.4	23.2	20.4	24.4	21.5	22.0	19.6
19	14.3	12.7	---	---	15.9	13.7	22.9	20.1	24.4	21.4	21.9	19.6
20	13.4	12.1	---	---	16.2	13.7	22.5	19.8	24.8	21.8	21.9	19.5
21	---	---	---	---	16.7	14.1	22.2	19.6	23.8	21.7	21.5	19.5
22	---	---	---	---	17.2	14.4	21.9	19.1	23.5	20.7	20.8	18.7
23	---	---	---	---	17.6	15.0	22.0	19.2	23.6	20.8	20.6	18.4
24	---	---	---	---	17.3	15.1	22.2	19.4	24.3	21.2	20.6	18.3
25	---	---	---	---	17.5	14.8	22.3	19.6	24.9	21.9	20.5	18.2
26	---	---	---	---	17.2	15.3	21.9	19.4	25.0	22.3	20.9	18.6
27	---	---	---	---	17.6	15.1	21.7	19.0	24.5	21.9	21.1	18.8
28	---	---	---	---	17.9	15.4	21.4	18.7	23.3	21.2	21.7	19.4
29	---	---	---	---	17.3	14.8	21.4	18.5	22.8	20.1	22.0	19.9
30	---	---	---	---	15.4	13.9	21.9	18.9	21.9	19.6	21.6	19.6
31	---	---	---	---	---	---	22.4	19.3	22.1	19.4	---	---
Month	---	---	---	---	---	---	23.2	13.7	25.0	19.4	23.7	18.2

11290000 Tuolumne River at Modesto, CA—Continued



11290000 Tuolumne River at Modesto, CA—Continued

CROSS SECTION ANALYSES						
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010						
[ft, feet; °C, degrees Celsius; μS/cm, microsiemens per centimeter]						
Sample date-time	Specific conduc- tance, water, unfiltered, μS/cm at 25 °C (00095)	Tempera- ture, 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 down- stream, ft (00009)
06-10-2010 0946	45	14.6	4.50	3.60	140	7.00
06-10-2010 0949	45	14.6	4.50	.90	140	7.00
06-10-2010 0950	44	14.6	8.50	6.50	140	21.0
06-10-2010 0951	45	14.6	8.50	1.70	140	21.0
06-10-2010 0953	44	14.6	8.50	6.50	140	35.0
06-10-2010 0954	44	14.6	8.50	1.70	140	35.0
06-10-2010 0956	44	14.6	7.50	6.00	140	49.0
06-10-2010 0957	45	14.6	7.50	1.50	140	49.0
06-10-2010 1000	45	14.6	7.20	6.00	140	63.0
06-10-2010 1001	45	14.6	7.20	1.50	140	63.0
06-10-2010 1003	45	14.6	7.00	5.50	140	77.0
06-10-2010 1004	45	14.6	7.00	1.50	140	77.0
06-10-2010 1006	45	14.6	5.80	4.40	140	91.0
06-10-2010 1007	45	14.6	5.80	1.20	140	91.0
06-10-2010 1008	45	14.8	5.20	4.00	140	105
06-10-2010 1009	47	14.8	5.20	1.00	140	105
06-10-2010 1010	60	15.9	5.00	4.00	140	119
06-10-2010 1011	60	15.9	5.00	1.00	140	119
06-10-2010 1013	57	15.8	1.50	1.00	140	133
09-02-2010 1210	94	21.6	1.00	.60	80.0	4.00
09-02-2010 1217	94	21.6	4.90	4.00	80.0	12.0
09-02-2010 1218	94	21.6	4.90	1.00	80.0	12.0
09-02-2010 1220	94	21.7	6.50	5.00	80.0	20.0
09-02-2010 1221	94	21.7	6.50	1.40	80.0	20.0
09-02-2010 1224	94	21.7	6.00	4.80	80.0	28.0
09-02-2010 1225	94	21.7	6.00	1.20	80.0	28.0
09-02-2010 1226	94	21.7	6.00	4.80	80.0	36.0
09-02-2010 1227	93	21.7	6.00	1.20	80.0	36.0
09-02-2010 1228	93	21.7	5.50	4.70	80.0	44.0
09-02-2010 1229	105	21.8	5.50	1.10	80.0	44.0
09-02-2010 1230	96	21.8	5.50	4.70	80.0	52.0
09-02-2010 1231	101	21.9	5.50	1.10	80.0	52.0
09-02-2010 1232	106	22.0	4.50	3.30	80.0	60.0
09-02-2010 1233	104	22.0	4.50	.90	80.0	60.0
09-02-2010 1234	111	22.3	3.20	2.40	80.0	68.0
09-02-2010 1235	111	22.3	3.20	.60	80.0	68.0
09-02-2010 1236	107	22.4	2.90	2.40	80.0	76.0
09-02-2010 1237	107	22.4	2.90	.60	80.0	76.0

Note: Instantaneous discharge at the mean time of the cross-sectional measurements: June 10, 2,100 ft³/s; Sep. 02, 396 ft³/s.