

Water-Data Report 2013

11463000 Russian River near Cloverdale, CA

Russian River Basin

LOCATION.--Lat 38°52'46", long 123°03'09" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.23, T.12 N., R.11 W., Mendocino County, CA, Hydrologic Unit 18010110, on left bank, 0.3 mi downstream from Cummisky Creek, 5.5 mi northwest of Cloverdale, and 28 mi downstream from Coyote Dam.

DRAINAGE AREA.--503 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 350 ft above NGVD of 1929, from topographic map. Prior to July 30, 1970, at site 0.2 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 15,000 acres upstream from station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino. See schematic diagram of Russian River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s, Dec. 22, 1964, gage height, 31.60 ft, site and datum then in use; minimum daily, 12 ft³/s, Apr. 22, 1977.

11463000 Russian River near Cloverdale, 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	154	213	3,630	3,190	363	271	285	215	81	96	120	121
2	150	209	14,500	2,510	354	270	282	196	76	103	114	124
3	153	209	5,450	1,630	348	269	263	185	84	116	118	125
4	156	208	2,050	1,100	348	267	307	168	89	110	118	124
5	160	207	4,070	1,020	344	273	349	152	84	116	115	123
6	156	189	2,480	1,290	339	691	299	141	89	118	116	120
7	159	180	1,640	942	340	583	290	124	84	121	118	122
8	163	178	1,290	800	342	432	314	118	78	126	115	124
9	162	180	1,050	734	334	371	310	111	85	112	114	128
10	163	179	902	690	327	338	286	104	89	106	111	125
11	157	176	811	640	323	323	284	99	90	105	109	126
12	165	180	770	603	319	312	276	95	84	105	114	128
13	164	177	704	573	315	303	268	96	83	100	112	125
14	167	172	939	549	312	296	263	93	88	97	115	126
15	167	174	773	524	304	289	263	89	89	107	118	133
16	180	181	764	505	298	282	250	92	85	124	121	138
17	182	225	1,540	488	295	279	239	92	94	128	119	133
18	189	215	1,410	469	293	276	234	86	100	123	130	137
19	189	186	1,040	453	301	265	239	85	98	108	132	125
20	191	510	1,020	440	314	295	239	86	106	94	117	125
21	e189	784	11,500	435	302	368	233	87	105	99	114	127
22	e198	356	7,450	422	294	304	236	91	106	119	108	134
23	e200	255	10,700	421	291	281	231	99	114	119	109	140
24	e206	221	7,870	459	287	283	228	92	119	116	107	137
25	201	206	3,660	426	285	279	227	87	125	118	111	137
26	200	195	5,540	410	283	274	227	92	120	116	116	137
27	202	189	4,700	398	281	269	222	96	104	114	117	119
28	205	552	4,520	388	274	267	218	99	93	123	117	143
29	205	1,900	4,040	381	---	263	222	93	89	126	114	145
30	204	9,680	3,720	379	---	258	219	88	90	129	122	150
31	208	---	3,480	367	---	263	---	87	---	127	120	---
Total	5,545	18,486	114,013	23,636	8,810	9,794	7,803	3,438	2,821	3,521	3,601	3,901
Mean	179	616	3,678	762	315	316	260	111	94.0	114	116	130
Max	208	9,680	14,500	3,190	363	691	349	215	125	129	132	150
Min	150	172	704	367	274	258	218	85	76	94	107	119
Ac-ft	11,000	36,670	226,100	46,880	17,470	19,430	15,480	6,820	5,600	6,980	7,140	7,740

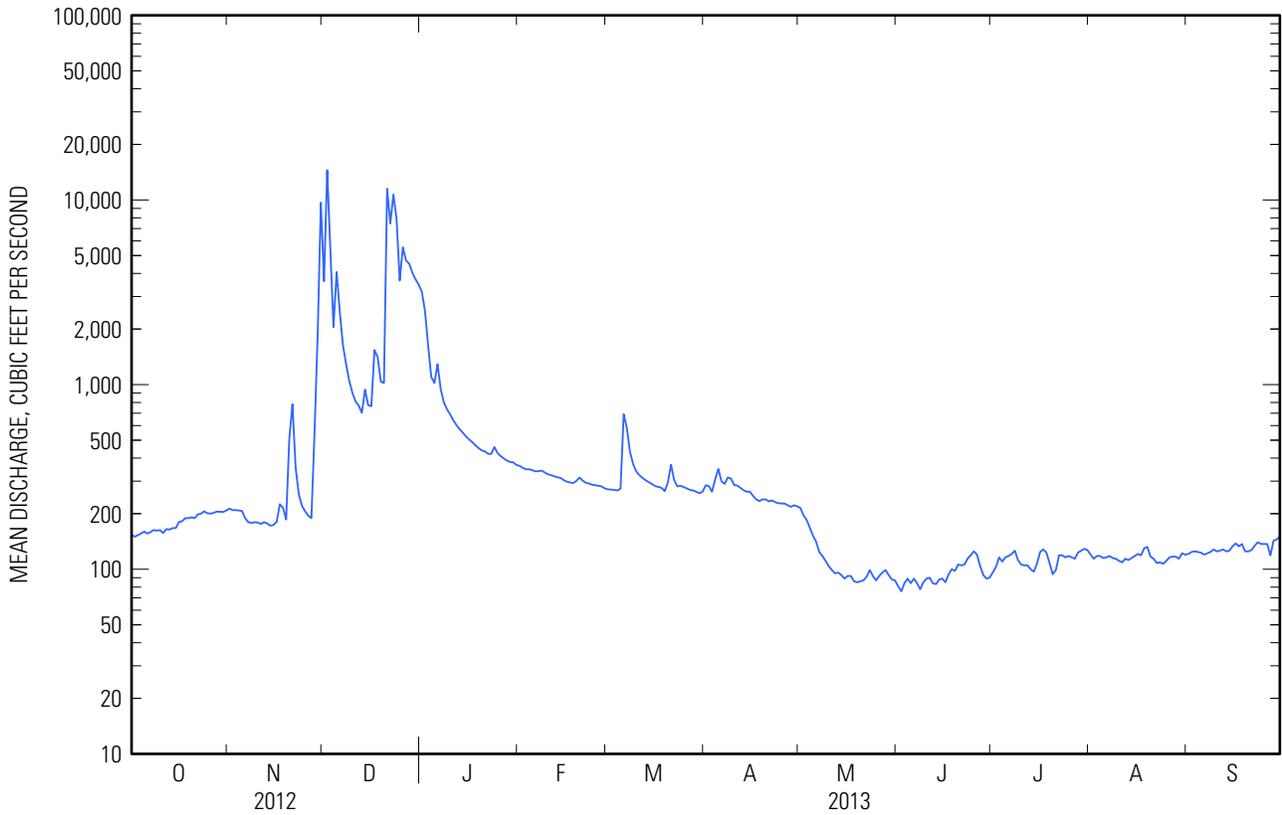
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	241	513	1,602	2,515	2,426	1,762	938	399	235	205	209	207
Max	659	2,636	6,398	8,324	9,790	7,015	4,034	1,306	840	336	359	385
(WY)	(1963)	(1984)	(1965)	(1995)	(1998)	(1983)	(2006)	(2003)	(1998)	(1998)	(1961)	(1974)
Min	34.5	114	97.8	53.7	44.5	97.2	47.3	80.7	90.1	89.9	93.9	72.5
(WY)	(1978)	(1992)	(1991)	(1977)	(1977)	(1977)	(1977)	(1977)	(2007)	(2009)	(2009)	(1977)

11463000 Russian River near Cloverdale, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1951 - 2013	
Annual total	272,718		205,369			
Annual mean	745		563		932	
Highest annual mean					2,144	1983
Lowest annual mean					99.2	1977
Highest daily mean	14,500	Dec 2	14,500	Dec 2	42,800	Dec 22, 1964
Lowest daily mean	117	Jun 27	76	Jun 2	12	Apr 22, 1977
Annual seven-day minimum	125	Jun 16	83	Jun 2	16	Apr 16, 1977
Maximum peak flow			20,300	Dec 2	55,200	Dec 22, 1964
Maximum peak stage			16.93	Dec 2	31.60	Dec 22, 1964
Annual runoff (ac-ft)	540,900		407,300		675,100	
10 percent exceeds	1,650		804		2,220	
50 percent exceeds	185		189		260	
90 percent exceeds	146		95		148	



11463000 Russian River near Cloverdale, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to 1969, 1995 to 1996, July 2009 to current year.

SEDIMENT DATA: Water years 1964 to 1967, 1995 to 1996.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: July 2009 to current year (seasonal record only).

WATER TEMPERATURE: November 1963 to September 1969, July 2009 to current year (seasonal record only).

SUSPENDED-SEDIMENT DISCHARGE: April 1964 to September 1967.

INSTRUMENTATION.--Water-quality monitor near left bank since July 21, 2009. Electronic data logger with 15 minute interval.

REMARKS.--Dissolved oxygen records rated excellent except for Nov. 1 to June. 2, which are rated good.

Water temperature records rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum recorded, 13.2 mg/L, July 28, 2010; minimum recorded, 6.6 mg/L, June 8, 2013.

WATER TEMPERATURE: Maximum recorded, 26.0°C, May 28, 1968; minimum recorded, 4.0°C, Jan. 3, 12, 1968.

SEDIMENT CONCENTRATION: Maximum daily, 4,600 mg/l, Dec. 23, 1964; minimum daily, 3 mg/l, Oct. 20-22, 1964, Jan. 13-15, 1967.

SEDIMENT LOAD: Maximum daily, 495,000 tons, Dec. 22, 1964; minimum daily, 0.9 ton, Jan. 15, 1967.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L, June 19-21; minimum recorded, 6.6 mg/L, June 8.

WATER TEMPERATURE: Maximum recorded, 25.0°C, June 8; minimum recorded, 14.0°C, May 1-2.

11463000 Russian River near Cloverdale, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	10.6	8.5	8.9	---	---	---	---	---	---	---	---	---
2	10.6	8.6	8.9	---	---	---	---	---	---	---	---	---
3	10.4	8.5	8.7	---	---	---	---	---	---	---	---	---
4	10.4	8.5	8.8	---	---	---	---	---	---	---	---	---
5	10.4	8.6	8.9	---	---	---	---	---	---	---	---	---
6	10.5	8.8	8.9	---	---	---	---	---	---	---	---	---
7	10.4	8.7	8.9	---	---	---	---	---	---	---	---	---
8	10.6	8.7	9.1	---	---	---	---	---	---	---	---	---
9	10.7	8.9	9.1	---	---	---	---	---	---	---	---	---
10	10.6	8.8	9.0	---	---	---	---	---	---	---	---	---
11	10.7	8.8	8.9	---	---	---	---	---	---	---	---	---
12	10.4	8.7	9.0	---	---	---	---	---	---	---	---	---
13	10.6	8.8	8.9	---	---	---	---	---	---	---	---	---
14	10.4	8.7	8.8	---	---	---	---	---	---	---	---	---
15	10.4	8.6	8.8	---	---	---	---	---	---	---	---	---
16	10.0	8.3	8.6	---	---	---	---	---	---	---	---	---
17	10.0	8.3	8.6	---	---	---	---	---	---	---	---	---
18	10.1	8.6	8.8	---	---	---	---	---	---	---	---	---
19	10.0	8.5	8.7	---	---	---	---	---	---	---	---	---
20	10.0	8.4	8.7	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	9.8	---	---	---	---	---	---	---	---	---	---	---
23	9.9	8.7	9.0	---	---	---	---	---	---	---	---	---
24	9.9	8.8	9.0	---	---	---	---	---	---	---	---	---
25	10.2	8.8	9.0	---	---	---	---	---	---	---	---	---
26	10.0	8.7	9.0	---	---	---	---	---	---	---	---	---
27	9.9	8.5	8.8	---	---	---	---	---	---	---	---	---
28	9.7	8.4	8.6	---	---	---	---	---	---	---	---	---
29	9.9	8.4	8.6	---	---	---	---	---	---	---	---	---
30	9.6	8.3	8.6	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

11463000 Russian River near Cloverdale, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

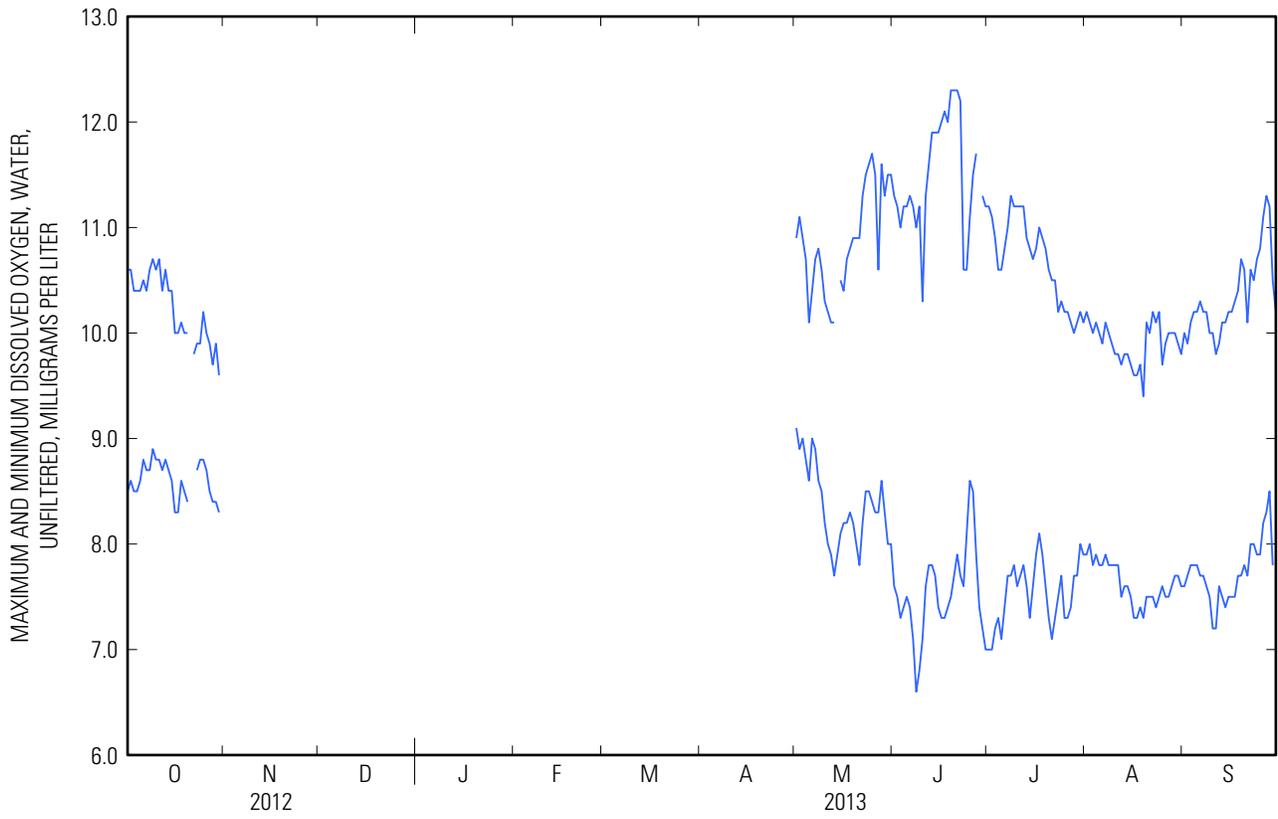
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	10.9	9.1	9.6
2	---	---	---	---	---	---	---	---	---	11.1	8.9	9.7
3	---	---	---	---	---	---	---	---	---	10.9	9.0	9.5
4	---	---	---	---	---	---	---	---	---	10.7	8.8	9.3
5	---	---	---	---	---	---	---	---	---	10.1	8.6	9.4
6	---	---	---	---	---	---	---	---	---	10.4	9.0	9.6
7	---	---	---	---	---	---	---	---	---	10.7	8.9	9.6
8	---	---	---	---	---	---	---	---	---	10.8	8.6	9.3
9	---	---	---	---	---	---	---	---	---	10.6	8.5	9.3
10	---	---	---	---	---	---	---	---	---	10.3	8.2	8.8
11	---	---	---	---	---	---	---	---	---	10.2	8.0	8.8
12	---	---	---	---	---	---	---	---	---	10.1	7.9	8.5
13	---	---	---	---	---	---	---	---	---	10.1	7.7	8.6
14	---	---	---	---	---	---	---	---	---	---	7.9	8.8
15	---	---	---	---	---	---	---	---	---	10.5	8.1	9.0
16	---	---	---	---	---	---	---	---	---	10.4	8.2	8.9
17	---	---	---	---	---	---	---	---	---	10.7	8.2	9.1
18	---	---	---	---	---	---	---	---	---	10.8	8.3	9.1
19	---	---	---	---	---	---	---	---	---	10.9	8.2	9.1
20	---	---	---	---	---	---	---	---	---	10.9	8.0	9.0
21	---	---	---	---	---	---	---	---	---	10.9	7.8	8.8
22	---	---	---	---	---	---	---	---	---	11.3	8.2	9.4
23	---	---	---	---	---	---	---	---	---	11.5	8.5	9.5
24	---	---	---	---	---	---	---	---	---	11.6	8.5	9.5
25	---	---	---	---	---	---	---	---	---	11.7	8.4	9.4
26	---	---	---	---	---	---	---	---	---	11.5	8.3	9.3
27	---	---	---	---	---	---	---	---	---	10.6	8.3	9.1
28	---	---	---	---	---	---	---	---	---	11.6	8.6	9.4
29	---	---	---	---	---	---	---	---	---	11.3	8.3	9.1
30	---	---	---	---	---	---	---	---	---	11.5	8.0	9.1
31	---	---	---	---	---	---	---	---	---	11.5	8.0	9.1
Max	---	---	---	---	---	---	---	---	---	---	9.1	9.7
Min	---	---	---	---	---	---	---	---	---	---	7.7	8.5

11463000 Russian River near Cloverdale, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	11.3	7.6	9.0	11.2	7.0	8.3	10.2	7.9	8.6	10.0	7.6	8.2
2	11.2	7.5	8.7	11.1	7.0	8.2	10.1	8.0	8.5	9.9	7.7	8.2
3	11.0	7.3	8.5	10.9	7.2	8.3	10.0	7.8	8.5	10.1	7.8	8.4
4	11.2	7.4	8.7	10.6	7.3	8.1	10.1	7.9	8.4	10.2	7.8	8.3
5	11.2	7.5	8.7	10.6	7.1	8.3	10.0	7.8	8.6	10.2	7.8	8.3
6	11.3	7.4	8.8	10.8	7.4	8.6	9.9	7.8	8.5	10.3	7.7	8.3
7	11.2	7.1	8.6	11.0	7.7	8.7	10.1	7.9	8.5	10.2	7.7	8.2
8	11.0	6.6	8.1	11.3	7.7	8.7	10.0	7.8	8.6	10.2	7.6	8.2
9	11.2	6.8	8.5	11.2	7.8	8.7	9.9	7.8	8.4	10.0	7.5	8.0
10	10.3	7.1	8.4	11.2	7.6	8.7	9.8	7.8	8.3	10.0	7.2	7.9
11	11.3	7.6	8.9	11.2	7.7	8.6	9.8	7.8	8.3	9.8	7.2	8.0
12	11.6	7.8	9.1	11.2	7.8	8.7	9.7	7.5	8.3	9.9	7.6	8.0
13	11.9	7.8	9.1	10.9	7.6	8.6	9.8	7.6	8.3	10.1	7.5	8.0
14	11.9	7.7	8.9	10.8	7.3	8.6	9.8	7.6	8.2	10.1	7.4	8.0
15	11.9	7.4	8.8	10.7	7.6	8.5	9.7	7.5	8.1	10.2	7.5	8.1
16	12.0	7.3	8.8	10.8	7.9	8.7	9.6	7.3	7.9	10.2	7.5	8.1
17	12.1	7.3	8.6	11.0	8.1	8.8	9.6	7.3	8.0	10.3	7.5	8.2
18	12.0	7.4	8.8	10.9	7.9	8.6	9.7	7.4	7.9	10.4	7.7	8.3
19	12.3	7.5	8.9	10.8	7.6	8.4	9.4	7.3	8.0	10.7	7.7	8.3
20	12.3	7.7	9.0	10.6	7.3	8.2	10.1	7.5	8.2	10.6	7.8	8.5
21	12.3	7.9	9.1	10.5	7.1	8.2	10.0	7.5	8.1	10.1	7.7	8.2
22	12.2	7.7	8.9	10.5	7.3	8.4	10.2	7.5	8.1	10.6	8.0	8.5
23	10.6	7.6	9.0	10.2	7.5	8.5	10.1	7.4	8.2	10.5	8.0	8.4
24	10.6	8.1	9.0	10.3	7.7	8.4	10.2	7.5	8.3	10.7	7.9	8.4
25	11.1	8.6	9.5	10.2	7.3	8.2	9.7	7.6	8.2	10.8	7.9	8.5
26	11.5	8.5	9.2	10.2	7.3	8.3	9.9	7.5	8.2	11.1	8.2	8.8
27	11.7	7.9	9.0	10.1	7.4	8.3	10.0	7.5	8.2	11.3	8.3	8.9
28	---	7.4	8.4	10.0	7.7	8.2	10.0	7.6	8.2	11.2	8.5	9.0
29	11.3	7.2	8.4	10.1	7.7	8.4	10.0	7.7	8.2	10.5	7.8	8.5
30	11.2	7.0	8.2	10.2	8.0	8.6	9.9	7.7	8.2	10.2	---	8.8
31	---	---	---	10.1	7.9	8.6	9.8	7.6	8.1	---	---	---
Max	---	8.6	9.5	11.3	8.1	8.8	10.2	8.0	8.6	11.3	---	9.0
Min	---	6.6	8.1	10.0	7.0	8.1	9.4	7.3	7.9	9.8	---	7.9

11463000 Russian River near Cloverdale, CA—Continued



11463000 Russian River near Cloverdale, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	17.9	15.4	16.3	---	---	---	---	---	---	---	---	---
2	17.9	15.6	16.5	---	---	---	---	---	---	---	---	---
3	17.9	15.9	16.8	---	---	---	---	---	---	---	---	---
4	17.8	16.2	16.7	---	---	---	---	---	---	---	---	---
5	17.0	15.8	16.4	---	---	---	---	---	---	---	---	---
6	17.2	15.3	16.0	---	---	---	---	---	---	---	---	---
7	17.2	15.4	16.1	---	---	---	---	---	---	---	---	---
8	16.3	14.7	15.6	---	---	---	---	---	---	---	---	---
9	16.1	14.5	15.1	---	---	---	---	---	---	---	---	---
10	16.4	14.6	15.3	---	---	---	---	---	---	---	---	---
11	16.4	14.9	15.4	---	---	---	---	---	---	---	---	---
12	16.3	15.4	15.6	---	---	---	---	---	---	---	---	---
13	17.1	15.2	15.8	---	---	---	---	---	---	---	---	---
14	17.5	15.6	16.3	---	---	---	---	---	---	---	---	---
15	17.6	15.9	16.7	---	---	---	---	---	---	---	---	---
16	18.6	16.8	17.5	---	---	---	---	---	---	---	---	---
17	17.9	16.5	17.3	---	---	---	---	---	---	---	---	---
18	16.9	15.3	16.4	---	---	---	---	---	---	---	---	---
19	17.7	16.2	16.7	---	---	---	---	---	---	---	---	---
20	17.4	16.0	16.7	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	15.4	14.3	14.9	---	---	---	---	---	---	---	---	---
24	15.6	14.7	15.1	---	---	---	---	---	---	---	---	---
25	16.4	15.1	15.5	---	---	---	---	---	---	---	---	---
26	16.3	14.9	15.6	---	---	---	---	---	---	---	---	---
27	17.2	15.5	16.1	---	---	---	---	---	---	---	---	---
28	17.7	16.3	17.0	---	---	---	---	---	---	---	---	---
29	17.7	16.6	17.1	---	---	---	---	---	---	---	---	---
30	17.5	16.4	17.0	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

11463000 Russian River near Cloverdale, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

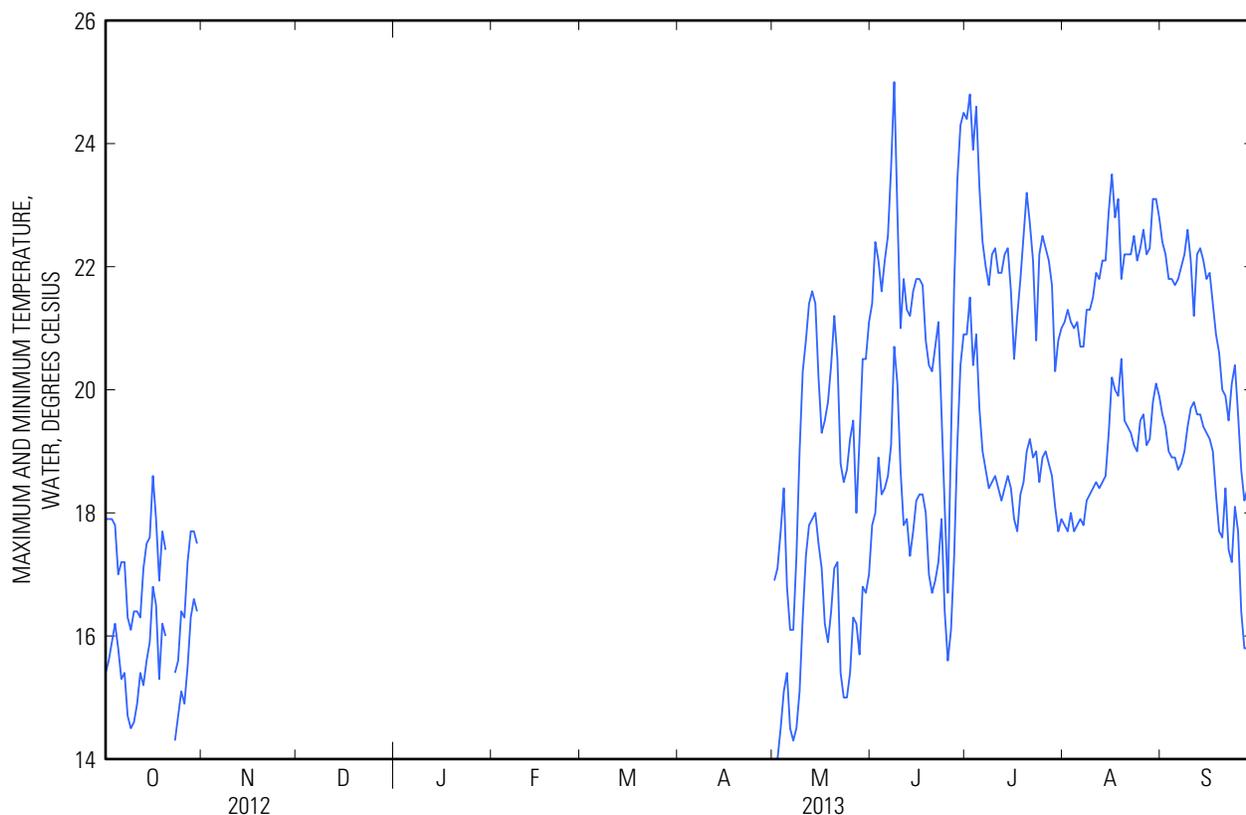
Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	16.9	14.0	15.7
2	---	---	---	---	---	---	---	---	---	17.1	14.0	15.5
3	---	---	---	---	---	---	---	---	---	17.7	14.5	15.8
4	---	---	---	---	---	---	---	---	---	18.4	15.1	16.3
5	---	---	---	---	---	---	---	---	---	16.8	15.4	15.9
6	---	---	---	---	---	---	---	---	---	16.1	14.5	15.5
7	---	---	---	---	---	---	---	---	---	16.1	14.3	15.4
8	---	---	---	---	---	---	---	---	---	17.3	14.5	15.4
9	---	---	---	---	---	---	---	---	---	19.0	15.1	16.4
10	---	---	---	---	---	---	---	---	---	20.3	16.3	17.8
11	---	---	---	---	---	---	---	---	---	20.8	17.3	18.9
12	---	---	---	---	---	---	---	---	---	21.4	17.8	19.5
13	---	---	---	---	---	---	---	---	---	21.6	17.9	19.7
14	---	---	---	---	---	---	---	---	---	21.4	18.0	19.5
15	---	---	---	---	---	---	---	---	---	20.2	17.5	18.9
16	---	---	---	---	---	---	---	---	---	19.3	17.1	18.2
17	---	---	---	---	---	---	---	---	---	19.5	16.2	17.8
18	---	---	---	---	---	---	---	---	---	19.8	15.9	17.6
19	---	---	---	---	---	---	---	---	---	20.4	16.4	18.0
20	---	---	---	---	---	---	---	---	---	21.2	17.1	18.8
21	---	---	---	---	---	---	---	---	---	20.5	17.2	18.7
22	---	---	---	---	---	---	---	---	---	18.8	15.4	17.2
23	---	---	---	---	---	---	---	---	---	18.5	15.0	16.7
24	---	---	---	---	---	---	---	---	---	18.7	15.0	16.7
25	---	---	---	---	---	---	---	---	---	19.2	15.4	17.0
26	---	---	---	---	---	---	---	---	---	19.5	16.3	17.5
27	---	---	---	---	---	---	---	---	---	18.0	16.2	16.6
28	---	---	---	---	---	---	---	---	---	19.2	15.7	16.6
29	---	---	---	---	---	---	---	---	---	20.5	16.8	18.0
30	---	---	---	---	---	---	---	---	---	20.5	16.7	18.4
31	---	---	---	---	---	---	---	---	---	21.1	17.0	18.7
Max	---	---	---	---	---	---	---	---	---	21.6	18.0	19.7
Min	---	---	---	---	---	---	---	---	---	16.1	14.0	15.4

11463000 Russian River near Cloverdale, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	21.4	17.8	19.4	24.4	20.9	22.7	21.1	17.8	19.3	22.4	19.6	21.0
2	22.4	18.0	19.7	24.8	21.5	22.9	21.3	17.7	19.3	22.2	19.4	20.7
3	22.1	18.9	20.4	23.9	20.4	22.3	21.1	18.0	19.5	21.8	19.0	20.3
4	21.6	18.3	19.8	24.6	20.9	22.4	21.0	17.7	19.3	21.8	18.9	20.1
5	22.1	18.4	19.7	23.3	19.7	21.6	21.1	17.8	19.2	21.7	18.9	20.2
6	22.5	18.6	20.1	22.4	19.0	20.9	20.7	17.9	19.1	21.8	18.7	20.1
7	23.6	19.1	20.9	22.0	18.7	20.4	20.7	17.8	19.0	22.0	18.8	20.3
8	25.0	20.7	22.1	21.7	18.4	20.0	21.3	18.2	19.3	22.2	19.0	20.5
9	22.9	20.1	21.4	22.2	18.5	20.0	21.3	18.3	19.6	22.6	19.4	20.8
10	21.0	18.7	19.3	22.3	18.6	20.4	21.5	18.4	19.6	22.1	19.7	20.7
11	21.8	17.8	18.7	21.9	18.4	20.0	21.9	18.5	20.0	21.2	19.8	20.2
12	21.3	17.9	19.6	21.9	18.2	19.8	21.8	18.4	20.1	22.2	19.6	20.4
13	21.2	17.3	19.2	22.2	18.4	20.2	22.1	18.5	20.2	22.3	19.6	20.8
14	21.6	17.7	19.3	22.3	18.6	20.5	22.1	18.6	20.3	22.1	19.4	20.7
15	21.8	18.2	19.9	21.6	18.4	20.1	22.9	19.3	20.7	21.8	19.3	20.5
16	21.8	18.3	20.0	20.5	17.9	19.2	23.5	20.2	21.5	21.9	19.2	20.4
17	21.7	18.3	20.0	21.2	17.7	19.0	22.8	20.0	21.6	21.4	19.0	20.1
18	20.8	18.0	19.3	21.8	18.3	19.8	23.1	19.9	21.4	20.9	18.3	19.6
19	20.4	17.0	18.6	22.5	18.5	20.1	21.8	20.5	21.3	20.6	17.7	19.3
20	20.3	16.7	18.5	23.2	19.0	20.9	22.2	19.5	20.8	20.0	17.6	19.0
21	20.7	16.9	18.6	22.7	19.2	21.1	22.2	19.4	20.6	19.9	18.4	19.0
22	21.1	17.2	19.0	22.1	18.9	20.6	22.2	19.3	20.6	19.5	17.4	18.6
23	19.6	17.9	18.5	20.8	19.0	20.1	22.5	19.1	20.5	20.1	17.2	18.4
24	18.1	16.4	17.0	22.2	18.5	19.8	22.1	19.0	20.7	20.4	18.1	19.0
25	16.7	15.6	16.2	22.5	18.9	20.6	22.3	19.5	20.8	19.6	17.7	18.4
26	19.2	16.1	16.9	22.3	19.0	20.6	22.6	19.6	20.8	18.7	16.4	17.5
27	21.7	17.3	18.6	22.1	18.8	20.3	22.2	19.1	20.7	18.2	15.8	17.1
28	23.4	19.1	20.4	21.7	18.6	20.0	22.3	19.2	20.6	18.4	15.8	16.9
29	24.3	20.4	22.0	20.3	18.1	19.1	23.1	19.8	21.0	18.9	17.3	17.8
30	24.5	20.9	22.7	20.8	17.7	18.9	23.1	20.1	21.5	19.8	18.3	18.7
31	---	---	---	21.0	17.9	19.3	22.8	19.9	21.4	---	---	---
Max	25.0	20.9	22.7	24.8	21.5	22.9	23.5	20.5	21.6	22.6	19.8	21.0
Min	16.7	15.6	16.2	20.3	17.7	18.9	20.7	17.7	19.0	18.2	15.8	16.9

11463000 Russian River near Cloverdale, CA—Continued



CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius]

Sample date-time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, water, unfiltered, mg/L (00300)	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)	Sample purpose (71999)	Sampling method (82398)
08-13-2013 1258	752	9.7	20.5	0.76	0.38	50.0	2.50	X-sec variation	Point sample
08-13-2013 1301	752	9.7	20.5	1.25	.62	50.0	7.50	X-sec variation	Point sample
08-13-2013 1302	752	9.7	20.5	1.58	.79	50.0	12.5	X-sec variation	Point sample
08-13-2013 1303	752	9.7	20.5	1.91	.96	50.0	17.5	X-sec variation	Point sample
08-13-2013 1304	752	9.7	20.5	2.08	1.04	50.0	22.5	X-sec variation	Point sample
08-13-2013 1305	752	9.7	20.5	2.28	1.14	50.0	27.5	X-sec variation	Point sample
08-13-2013 1306	752	9.7	20.5	1.48	.74	50.0	32.5	X-sec variation	Point sample
08-13-2013 1307	752	9.7	20.6	1.32	.66	50.0	37.5	X-sec variation	Point sample
08-13-2013 1309	752	9.7	20.6	1.25	.62	50.0	42.5	X-sec variation	Point sample
08-13-2013 1310	752	9.7	20.8	.77	.38	50.0	47.5	X-sec variation	Point sample

Note: Instantaneous discharge at mean-time of cross-section measurement: Aug. 13, 113 ft³/s.