

Water-Data Report 2008

## 11462500 Russian River near Hopland, CA

Russian River Basin

LOCATION.--Lat 39°01'36", long 123°07'46" referenced to North American Datum of 1927, Mendocino County, CA, Hydrologic Unit 18010110, in Rancho de Sanel Grant, at abandoned highway bridge, 0.3 mi (corrected) downstream from confluence of McNab Creek, 4 mi north of town of Hopland, and 15.2 mi downstream from Coyote Valley Dam on the East Fork Russian River.

DRAINAGE AREA.--362 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1041: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage on right bank. Datum of gage is 497.61 ft above NGVD of 1929. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 11,800 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, capacity, 122,400 acre-ft, 15.2 mi upstream. See schematic diagram of Russian River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,000 ft<sup>3</sup>/s, Dec. 22, 1955, gage height, 27.00 ft; minimum daily, 9.1 ft<sup>3</sup>/s, Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 4, 1937 reached a stage of 30.0 ft, from floodmarks.

## 11462500 Russian River near Hopland, CA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	187	e163	e171	185	4,700	629	243	211	177	145	174	217
2	181	e163	172	173	3,230	569	220	211	137	141	179	226
3	168	e162	177	336	8,280	518	220	210	134	142	188	240
4	178	158	471	9,080	3,400	480	225	209	126	145	189	233
5	166	158	224	3,650	2,940	450	238	206	119	147	186	216
6	151	161	153	2,220	2,050	415	242	192	115	147	186	211
7	149	163	601	1,180	1,430	391	222	190	121	142	190	219
8	e150	167	246	2,290	1,230	376	237	181	124	129	187	217
9	e154	168	202	2,130	1,120	368	210	180	126	132	190	220
10	166	173	169	2,100	1,020	353	220	182	121	144	187	220
11	157	168	96	1,350	951	341	229	184	121	153	182	212
12	163	e168	92	921	1,050	330	233	184	126	160	181	209
13	160	e167	89	710	886	336	230	182	131	163	178	191
14	152	e165	86	557	1,190	339	226	179	125	167	182	191
15	155	e165	85	426	938	405	215	185	137	178	179	193
16	155	e164	88	372	538	322	211	190	138	e182	183	188
17	158	e164	90	339	462	282	231	190	135	e177	192	157
18	160	e165	668	322	435	281	232	190	132	171	196	200
19	167	e164	528	303	419	256	229	189	129	174	188	209
20	173	e160	2,100	299	406	238	196	187	122	174	175	213
21	167	e160	497	292	395	219	179	187	121	178	178	215
22	160	e160	298	297	391	216	202	195	137	170	181	211
23	158	e163	250	290	410	213	247	196	140	186	175	185
24	155	166	218	287	4,790	227	211	199	138	176	188	182
25	161	166	152	1,410	2,800	230	228	203	148	185	186	185
26	165	161	114	7,300	1,390	221	229	196	151	188	172	191
27	167	166	105	2,790	1,020	207	238	199	148	199	163	196
28	165	162	115	2,230	823	214	236	198	143	200	177	198
29	158	167	225	1,730	708	248	230	193	153	191	199	192
30	163	170	281	1,680	---	228	222	201	152	185	202	156
31	e165	---	209	4,910	---	200	---	199	---	186	210	---
<b>Total</b>	5,034	4,927	8,972	52,159	49,402	10,102	6,731	5,998	4,027	5,157	5,723	6,093
<b>Mean</b>	162	164	289	1,683	1,704	326	224	193	134	166	185	203
<b>Max</b>	187	173	2,100	9,080	8,280	629	247	211	177	200	210	240
<b>Min</b>	149	158	85	173	391	200	179	179	115	129	163	156
<b>Ac-ft</b>	9,980	9,770	17,800	103,500	97,990	20,040	13,350	11,900	7,990	10,230	11,350	12,090

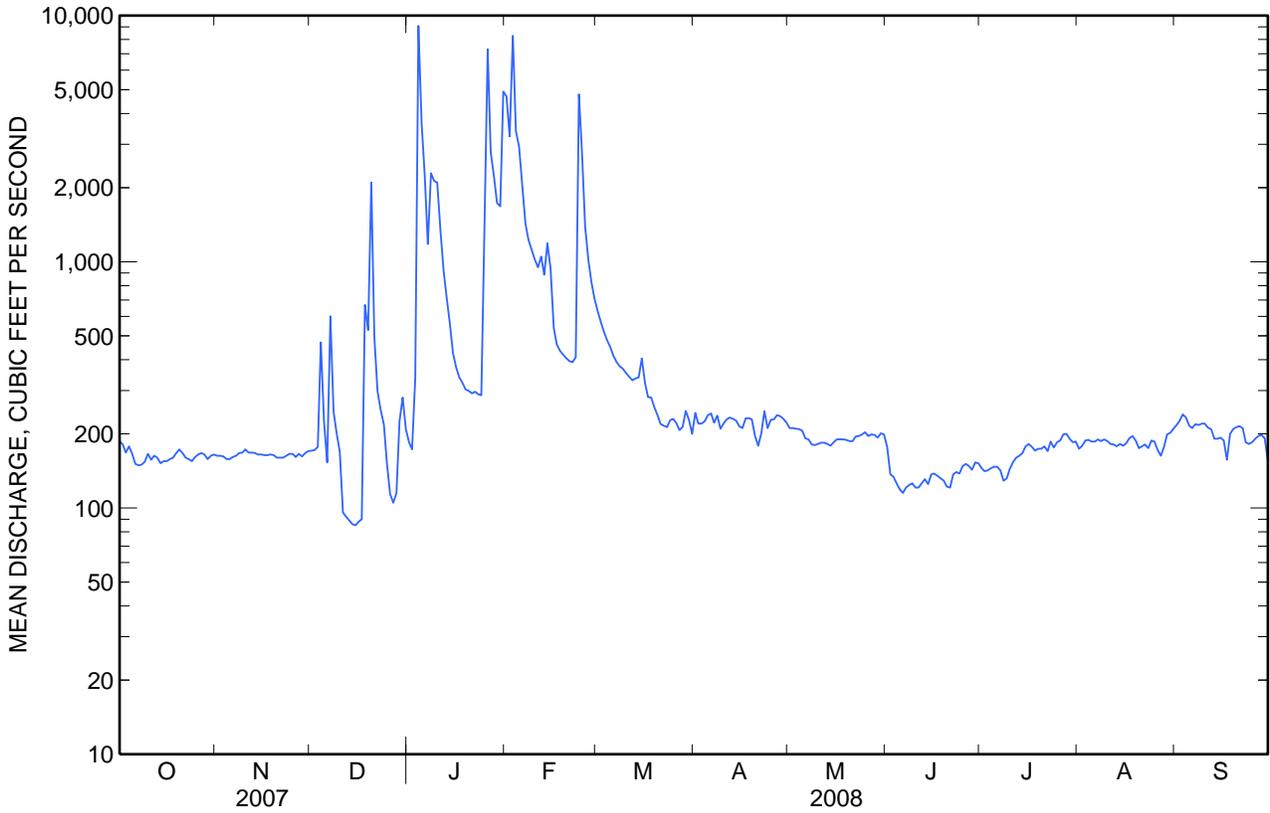
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	225	399	1,182	1,811	1,793	1,241	722	337	215	198	205	207
<b>Max</b>	555	1,656	4,849	5,856	6,799	5,361	2,657	1,013	490	326	369	383
<b>(WY)</b>	(1958)	(1984)	(1965)	(1970)	(1958)	(1983)	(2006)	(2003)	(1998)	(1961)	(1961)	(1974)
<b>Min</b>	35.1	96.5	87.6	37.2	28.8	57.1	44.1	77.0	59.6	79.7	105	78.9
<b>(WY)</b>	(1978)	(1978)	(1991)	(1977)	(1977)	(1977)	(1977)	(1977)	(1949)	(1948)	(1950)	(1977)

11462500 Russian River near Hopland, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1940 - 2008	
<b>Annual total</b>	109,632		164,325			
<b>Annual mean</b>	300		449		707	
<b>Highest annual mean</b>					1,587	1983
<b>Lowest annual mean</b>					94.0	1977
<b>Highest daily mean</b>	4,950	Feb 10	9,080	Jan 4	33,800	Dec 22, 1955
<b>Lowest daily mean</b>	65	Jun 9	85	Dec 15	9.1	Apr 20, 1977
<b>Annual seven-day minimum</b>	73	Jun 3	89	Dec 11	13	Apr 15, 1977
<b>Maximum peak flow</b>			15,000	Jan 4	45,000	Dec 22, 1955
<b>Maximum peak stage</b>			16.55	Jan 4	27.00	Dec 22, 1955
<b>Annual runoff (ac-ft)</b>	217,500		325,900		512,000	
<b>10 percent exceeds</b>	419		842		1,580	
<b>50 percent exceeds</b>	173		190		249	
<b>90 percent exceeds</b>	101		142		139	



**11462500 Russian River near Hopland, CA—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1951-79, 1990-96, 2002 to current year.

CHEMICAL DATA: Water years 1951-66.

SEDIMENT DATA: Water years 1990-96.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: January 2002 to current year.

pH: January 2002 to current year.

SPECIFIC CONDUCTANCE: January 2002 to current year.

WATER TEMPERATURE: September 1965 to March 1979, January 2002 to current year.

TURBIDITY: January 2002 to current year.

INSTRUMENTATION.--Water-quality monitor on left bank since January 2002. Electronic data logger with 15 minute interval.

REMARKS.--Interruptions in record are due to malfunction of recording and (or) sensing equipment. Turbidity sensor was changed from YSI 6026 to YSI 6136 on July 14, 2008. See National Field manual for explanation of the difference between the two sensors.

Dissolved oxygen records are rated excellent except for Oct. 1-2, Oct. 30 to Nov. 3, which are rated good; Oct. 3-4, Nov. 4-5, which are rated fair; and Oct. 5-11, which are rated poor.

pH records are rated excellent except for Nov. 15-16, Dec. 22-23, Jan. 25-28, Apr. 17-20, May 10-18, which are rated good; Dec. 24-28, Apr. 21-23, May 19-23, which are rated fair; and Apr. 24-25, which are rated poor.

Specific conductance records are rated excellent except for Oct. 6-11, Oct. 22, which are rated good; and Oct. 20-21, which are rated fair.

Water temperature records are rated excellent.

Turbidity records are rated excellent except for Dec. 30, May 22, 23, Aug. 11, which are rated good; Dec. 31, May 24, 25, which are rated fair, and Jan. 1-3, May 26 to June 4, which are rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum recorded, 16.3 mg/L, May 18, 2002; minimum recorded, 6.7 mg/L, June 18, 2006.

pH: Maximum recorded, 9.0 standard units, July 26, and Aug. 1, 2008; minimum recorded, 7.0 standard units, May 4-10, 2004, and several days January to March 2005.

SPECIFIC CONDUCTANCE: Maximum recorded, 251 microsiemens, Nov. 11, 2002; minimum recorded, 60 microsiemens, Dec. 31, 2005.

WATER TEMPERATURE: Maximum recorded, 27.0°C, Sept. 5, 6, 1977; minimum recorded, 5.0°C, Feb. 2, Dec. 16, 1972, Jan. 31 to Feb. 2, 1975, Dec. 30, 31, 1978.

TURBIDITY: Maximum recorded, >1,200 FNU, several days each year; minimum recorded 0.1 FNU, Jul. 31, Aug. 1-3, 2004.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum recorded, 14.2 mg/L, July 12; minimum recorded, 7.2 mg/L, Oct. 9-11.

pH: Maximum recorded, 9.0 standard units, July 26, Aug. 1; minimum recorded, 7.3 standard units, Jan. 7-8.

SPECIFIC CONDUCTANCE: Maximum recorded, 254 microsiemens, Dec. 14-16, 27; minimum recorded, 63 microsiemens, Jan. 4.

WATER TEMPERATURE: Maximum recorded, 21.5°C, Sept. 15; minimum recorded, 6.2°C, Jan. 1.

TURBIDITY: Maximum recorded, >1200 FNU, Jan. 4, 25-26, 31, Feb. 1; minimum recorded 5.0 FNU, Nov. 12.

## 11462500 Russian River near Hopland, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

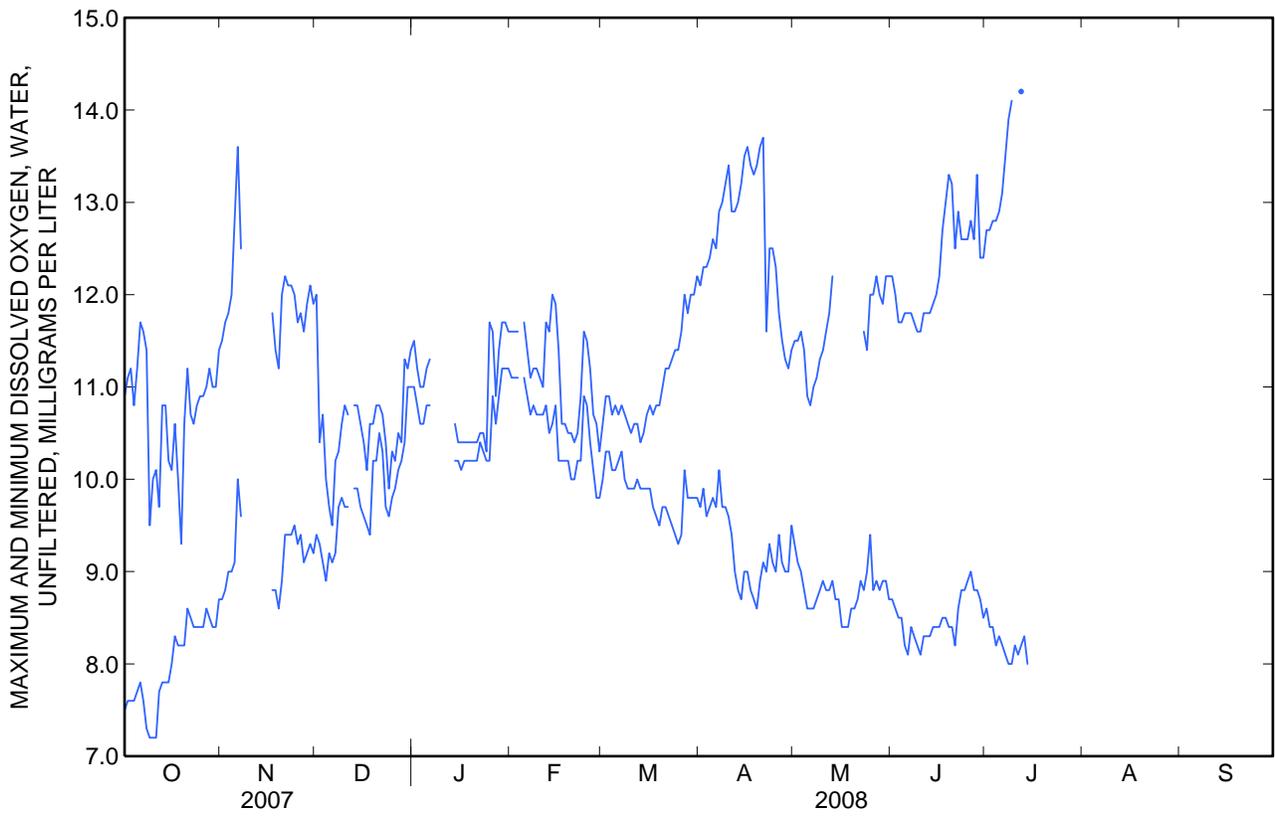
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	10.9	7.5	11.5	8.7	12.0	9.4	11.5	11.0	11.6	11.1	10.6	10.0
2	11.1	7.6	11.7	8.8	10.4	9.3	11.2	10.8	11.6	11.1	10.9	10.3
3	11.2	7.6	11.8	9.0	10.7	9.1	11.0	10.6	11.6	11.1	10.9	10.3
4	10.8	7.6	12.0	9.0	10.0	8.9	11.0	10.6	---	---	10.7	10.1
5	11.2	7.7	12.8	9.1	9.7	9.2	11.2	10.8	11.7	11.1	10.8	10.1
6	11.7	7.8	13.6	10.0	9.5	9.1	11.3	10.8	11.4	10.9	10.7	10.2
7	11.6	7.6	12.5	9.6	10.2	9.2	---	---	11.1	10.7	10.8	10.3
8	11.4	7.3	---	---	10.3	9.7	---	---	11.2	10.8	10.7	10.0
9	9.5	7.2	---	---	10.6	9.8	---	---	11.2	10.7	10.6	9.9
10	10.0	7.2	---	---	10.8	9.7	---	---	11.1	10.7	10.5	9.9
11	10.1	7.2	---	---	10.7	9.7	---	---	11.0	10.7	10.6	9.9
12	9.7	7.7	---	---	---	---	---	---	11.7	10.8	10.6	10.0
13	10.8	7.8	---	---	10.8	9.9	---	---	11.6	10.5	10.4	9.9
14	10.8	7.8	---	---	10.8	9.9	10.6	10.2	12.0	10.6	10.5	9.9
15	10.2	7.8	---	---	10.6	9.7	10.4	10.2	11.9	10.8	10.7	9.9
16	10.1	8.0	---	---	10.4	9.6	10.4	10.1	11.4	10.2	10.8	9.9
17	10.6	8.3	11.8	8.8	10.1	9.5	10.4	10.2	10.6	10.2	10.7	9.7
18	10.0	8.2	11.4	8.8	10.6	9.4	10.4	10.2	10.6	10.2	10.8	9.6
19	9.3	8.2	11.2	8.6	10.6	10.2	10.4	10.2	10.5	10.2	10.8	9.5
20	10.6	8.2	12.0	8.9	10.8	10.2	10.4	10.2	10.5	10.0	11.0	9.7
21	11.2	8.6	12.2	9.4	10.8	10.5	10.4	10.2	10.4	10.0	11.2	9.7
22	10.7	8.5	12.1	9.4	10.7	10.3	10.5	10.4	10.5	10.2	11.2	9.6
23	10.6	8.4	12.1	9.4	10.4	9.7	10.5	10.3	10.9	10.2	11.3	9.5
24	10.8	8.4	12.0	9.5	9.9	9.6	10.3	10.2	11.6	10.9	11.4	9.4
25	10.9	8.4	11.7	9.3	10.3	9.8	11.7	10.2	11.5	10.8	11.4	9.3
26	10.9	8.4	11.8	9.4	10.2	9.9	11.6	10.9	11.2	10.4	11.6	9.4
27	11.0	8.6	11.6	9.1	10.5	10.1	10.9	10.6	10.7	10.1	12.0	10.1
28	11.2	8.5	11.9	9.2	10.4	10.2	11.4	10.9	10.6	9.8	11.8	9.8
29	11.0	8.4	12.1	9.3	11.3	10.4	11.7	11.2	10.3	9.8	12.0	9.8
30	11.0	8.4	11.9	9.2	11.2	11.0	11.7	11.2	---	---	12.0	9.8
31	11.4	8.7	---	---	11.4	11.0	11.6	11.2	---	---	12.2	9.8
Month	11.7	7.2	---	---	---	---	---	---	---	---	12.2	9.3

## 11462500 Russian River near Hopland, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	12.1	9.7	11.5	9.3	12.2	8.7	12.7	8.6	---	---	---	---
2	12.3	9.9	11.5	9.1	12.0	8.6	12.7	8.4	---	---	---	---
3	12.3	9.6	11.6	9.0	11.7	8.5	12.8	8.4	---	---	---	---
4	12.4	9.7	11.4	8.8	11.7	8.5	12.8	8.2	---	---	---	---
5	12.6	9.8	10.9	8.6	11.8	8.2	12.9	8.3	---	---	---	---
6	12.5	9.7	10.8	8.6	11.8	8.1	13.1	8.2	---	---	---	---
7	12.9	10.1	11.0	8.6	11.8	8.4	13.5	8.1	---	---	---	---
8	13.0	9.7	11.1	8.7	11.7	8.3	13.9	8.0	---	---	---	---
9	13.2	9.7	11.3	8.8	11.6	8.2	14.1	8.0	---	---	---	---
10	13.4	9.6	11.4	8.9	11.6	8.1	---	8.2	---	---	---	---
11	12.9	9.4	11.6	8.8	11.8	8.3	---	8.1	---	---	---	---
12	12.9	9.0	11.8	8.8	11.8	8.3	14.2	8.2	---	---	---	---
13	13.0	8.8	12.2	8.9	11.8	8.3	---	8.3	---	---	---	---
14	13.2	8.7	---	8.7	11.9	8.4	---	8.0	---	---	---	---
15	13.5	9.0	---	8.7	12.0	8.4	---	---	---	---	---	---
16	13.6	9.0	---	8.4	12.2	8.4	---	---	---	---	---	---
17	13.4	8.8	---	8.4	12.7	8.5	---	---	---	---	---	---
18	13.3	8.7	---	8.4	13.0	8.5	---	---	---	---	---	---
19	13.4	8.6	---	8.6	13.3	8.4	---	---	---	---	---	---
20	13.6	8.9	---	8.6	13.2	8.4	---	---	---	---	---	---
21	13.7	9.1	---	8.7	12.5	8.2	---	---	---	---	---	---
22	11.6	9.0	---	8.9	12.9	8.6	---	---	---	---	---	---
23	12.5	9.3	11.6	8.8	12.6	8.8	---	---	---	---	---	---
24	12.5	9.1	11.4	9.0	12.6	8.8	---	---	---	---	---	---
25	12.3	9.0	12.0	9.4	12.6	8.9	---	---	---	---	---	---
26	11.8	9.4	12.0	8.8	12.8	9.0	---	---	---	---	---	---
27	11.5	9.1	12.2	8.9	12.6	8.8	---	---	---	---	---	---
28	11.3	9.0	12.0	8.8	13.3	8.8	---	---	---	---	---	---
29	11.2	9.0	11.9	8.9	12.4	8.7	---	---	---	---	---	---
30	11.4	9.5	12.2	8.9	12.4	8.5	---	---	---	---	---	---
31	---	---	12.2	8.7	---	---	---	---	---	---	---	---
Month	13.7	8.6	---	8.4	13.3	8.1	---	---	---	---	---	---

11462500 Russian River near Hopland, CA—Continued



## 11462500 Russian River near Hopland, CA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

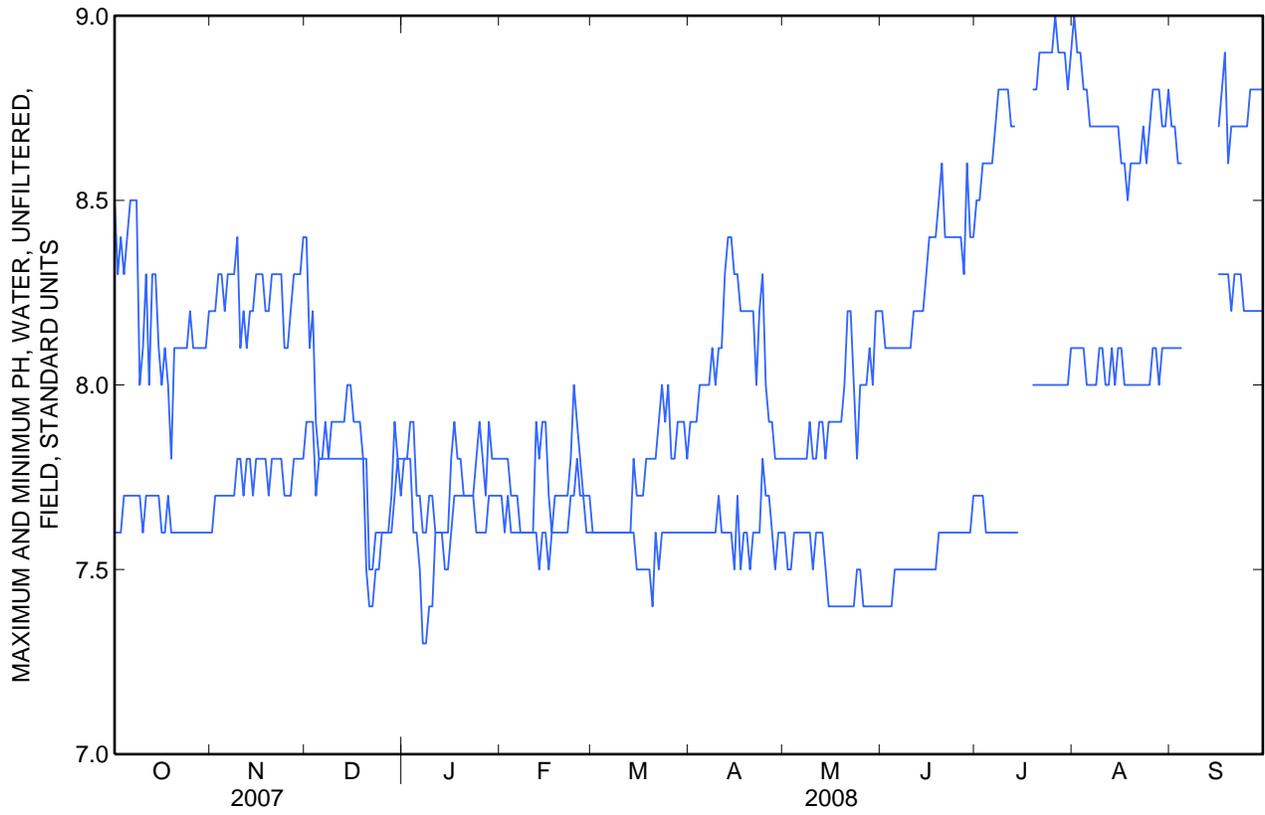
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	8.5	7.6	8.2	7.6	8.4	7.9	7.8	7.8	7.8	7.7	7.6	7.6
2	8.3	7.6	8.2	7.7	8.1	7.9	7.8	7.8	7.8	7.6	7.6	7.6
3	8.4	7.6	8.3	7.7	8.2	7.9	7.9	7.8	7.8	7.7	7.6	7.6
4	8.3	7.7	8.3	7.7	7.9	7.7	7.9	7.6	7.7	7.6	7.6	7.6
5	8.4	7.7	8.2	7.7	7.8	7.8	7.7	7.6	7.7	7.6	7.6	7.6
6	8.5	7.7	8.3	7.7	7.8	7.8	7.7	7.5	7.7	7.6	7.6	7.6
7	8.5	7.7	8.3	7.7	7.9	7.8	7.6	7.3	7.6	7.6	7.6	7.6
8	8.5	7.7	8.3	7.7	7.8	7.8	7.6	7.3	7.6	7.6	7.6	7.6
9	8.0	7.7	8.4	7.8	7.9	7.8	7.7	7.4	7.6	7.6	7.6	7.6
10	8.1	7.6	8.1	7.8	7.9	7.8	7.7	7.4	7.6	7.6	7.6	7.6
11	8.3	7.7	8.2	7.7	7.9	7.8	7.6	7.6	7.6	7.6	7.6	7.6
12	8.0	7.7	8.1	7.8	7.9	7.8	7.6	7.6	7.9	7.6	7.6	7.6
13	8.3	7.7	8.2	7.8	7.9	7.8	7.6	7.6	7.8	7.5	7.6	7.6
14	8.3	7.7	8.2	7.7	8.0	7.8	7.6	7.5	7.9	7.6	7.8	7.6
15	8.1	7.7	8.3	7.8	8.0	7.8	7.6	7.5	7.9	7.6	7.7	7.5
16	8.0	7.6	8.3	7.8	7.9	7.8	7.8	7.6	7.7	7.5	7.7	7.5
17	8.1	7.6	8.3	7.8	7.9	7.8	7.9	7.7	7.6	7.6	7.7	7.5
18	8.0	7.7	8.2	7.8	7.9	7.8	7.8	7.7	7.7	7.6	7.8	7.5
19	7.8	7.6	8.2	7.7	7.8	7.8	7.8	7.7	7.7	7.6	7.8	7.5
20	8.1	7.6	8.3	7.8	7.8	7.5	7.7	7.7	7.7	7.6	7.8	7.4
21	8.1	7.6	8.3	7.8	7.5	7.4	7.7	7.7	7.7	7.6	7.8	7.6
22	8.1	7.6	8.3	7.8	7.5	7.4	7.7	7.7	7.7	7.6	7.9	7.5
23	8.1	7.6	8.3	7.8	7.6	7.5	7.7	7.7	7.8	7.7	8.0	7.6
24	8.1	7.6	8.1	7.7	7.6	7.5	7.8	7.6	8.0	7.7	7.9	7.6
25	8.2	7.6	8.1	7.7	7.6	7.6	7.9	7.6	7.9	7.8	8.0	7.6
26	8.1	7.6	8.2	7.7	7.6	7.6	7.8	7.6	7.8	7.7	7.8	7.6
27	8.1	7.6	8.3	7.8	7.6	7.6	7.7	7.6	7.7	7.7	7.8	7.6
28	8.1	7.6	8.3	7.8	7.7	7.6	7.9	7.7	7.7	7.6	7.9	7.6
29	8.1	7.6	8.3	7.8	7.9	7.7	7.8	7.7	7.7	7.6	7.9	7.6
30	8.1	7.6	8.4	7.8	7.8	7.8	7.8	7.7	---	---	7.9	7.6
31	8.2	7.6	---	---	7.8	7.7	7.8	7.7	---	---	7.8	7.6
Month	8.5	7.6	8.4	7.6	8.4	7.4	7.9	7.3	8.0	7.5	8.0	7.4

## 11462500 Russian River near Hopland, CA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	7.9	7.6	7.8	7.6	8.2	7.4	8.5	7.7	9.0	8.1	8.7	8.1
2	7.9	7.6	7.8	7.5	8.1	7.4	8.5	7.7	8.9	8.1	8.7	8.1
3	7.9	7.6	7.8	7.5	8.1	7.4	8.6	7.7	8.9	8.1	8.6	8.1
4	8.0	7.6	7.8	7.6	8.1	7.4	8.6	7.6	8.8	8.1	8.6	8.1
5	8.0	7.6	7.8	7.6	8.1	7.5	8.6	7.6	8.8	8.0	---	---
6	8.0	7.6	7.8	7.6	8.1	7.5	8.6	7.6	8.7	8.0	---	---
7	8.0	7.6	7.8	7.6	8.1	7.5	8.7	7.6	8.7	8.0	---	---
8	8.1	7.6	7.8	7.6	8.1	7.5	8.8	7.6	8.7	8.0	---	---
9	8.0	7.6	7.9	7.6	8.1	7.5	8.8	7.6	8.7	8.1	---	---
10	8.1	7.7	7.8	7.5	8.1	7.5	8.8	7.6	8.7	8.1	---	---
11	8.1	7.6	7.8	7.6	8.2	7.5	8.8	7.6	8.7	8.0	---	---
12	8.3	7.6	7.9	7.6	8.2	7.5	8.7	7.6	8.7	8.0	---	---
13	8.4	7.6	7.9	7.6	8.2	7.5	8.7	7.6	8.7	8.1	---	---
14	8.4	7.6	7.8	7.5	8.2	7.5	---	7.6	8.7	8.0	---	---
15	8.3	7.5	7.9	7.4	8.3	7.5	---	---	8.7	8.1	---	---
16	8.3	7.7	7.9	7.4	8.4	7.5	---	---	8.6	8.1	8.7	8.3
17	8.2	7.5	7.9	7.4	8.4	7.5	---	---	8.6	8.0	8.8	8.3
18	8.2	7.6	7.9	7.4	8.4	7.5	---	---	8.5	8.0	8.9	8.3
19	8.2	7.6	7.9	7.4	8.5	7.6	8.8	8.0	8.6	8.0	8.6	8.3
20	8.2	7.5	8.0	7.4	8.6	7.6	8.8	8.0	8.6	8.0	8.7	8.2
21	8.2	7.6	8.2	7.4	8.4	7.6	8.9	8.0	8.6	8.0	8.7	8.3
22	8.0	7.6	8.2	7.4	8.4	7.6	8.9	8.0	8.6	8.0	8.7	8.3
23	8.2	7.6	8.0	7.4	8.4	7.6	8.9	8.0	8.7	8.0	8.7	8.3
24	8.3	7.8	7.8	7.5	8.4	7.6	8.9	8.0	8.6	8.0	8.7	8.2
25	8.0	7.7	8.0	7.5	8.4	7.6	8.9	8.0	8.7	8.0	8.7	8.2
26	7.9	7.7	8.0	7.4	8.4	7.6	9.0	8.0	8.8	8.1	8.8	8.2
27	7.9	7.6	8.0	7.4	8.3	7.6	8.9	8.0	8.8	8.1	8.8	8.2
28	7.8	7.5	8.1	7.4	8.6	7.6	8.9	8.0	8.8	8.0	8.8	8.2
29	7.8	7.6	8.0	7.4	8.4	7.6	8.9	8.0	8.7	8.1	8.8	8.2
30	7.8	7.6	8.2	7.4	8.4	7.7	8.8	8.0	8.7	8.1	8.8	8.2
31	---	---	8.2	7.4	---	---	8.9	8.1	8.8	8.1	---	---
Month	8.4	7.5	8.2	7.4	8.6	7.4	---	---	9.0	8.0	---	---

11462500 Russian River near Hopland, CA—Continued



## 11462500 Russian River near Hopland, CA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

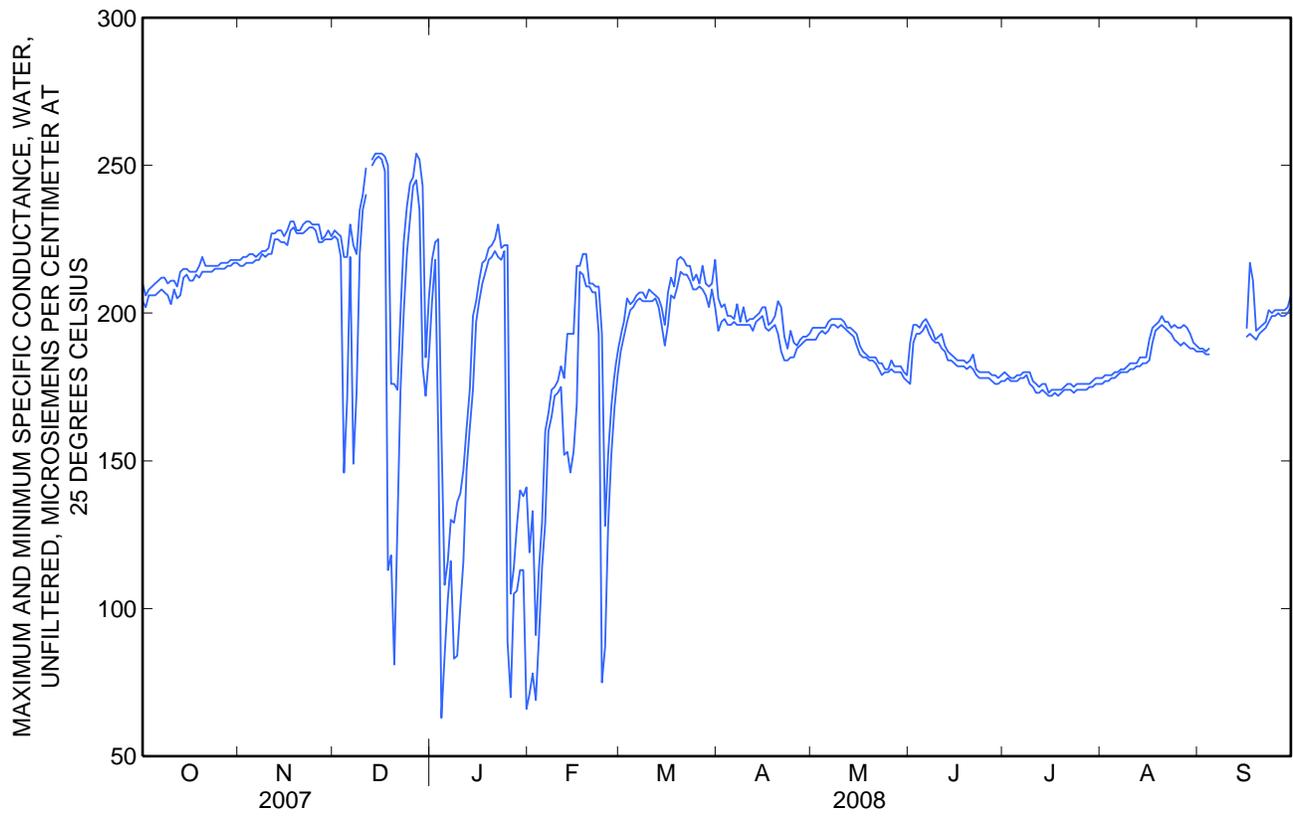
<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>
	<b>October</b>		<b>November</b>		<b>December</b>		<b>January</b>		<b>February</b>		<b>March</b>	
<b>1</b>	210	204	218	216	228	226	218	204	119	71	192	187
<b>2</b>	206	202	219	216	227	225	224	218	133	78	197	192
<b>3</b>	208	206	219	217	226	219	225	159	91	69	205	197
<b>4</b>	209	206	220	217	219	146	159	63	114	91	203	201
<b>5</b>	210	206	220	217	219	171	108	84	129	114	204	202
<b>6</b>	211	207	219	218	230	219	116	103	160	129	206	204
<b>7</b>	212	208	220	218	223	149	130	116	166	160	207	205
<b>8</b>	212	207	221	220	220	173	129	83	174	165	207	204
<b>9</b>	210	206	221	219	235	220	136	84	175	172	205	204
<b>10</b>	211	203	222	220	240	235	139	101	177	173	208	204
<b>11</b>	211	208	227	220	249	240	147	116	182	175	207	204
<b>12</b>	209	205	227	225	---	---	161	147	178	152	206	205
<b>13</b>	214	206	228	225	252	250	174	161	193	153	205	202
<b>14</b>	215	212	228	224	254	252	199	174	193	146	202	196
<b>15</b>	215	213	226	224	254	253	204	197	193	153	196	189
<b>16</b>	214	211	228	223	254	252	211	204	216	169	207	196
<b>17</b>	214	211	231	228	253	248	217	210	216	214	212	206
<b>18</b>	214	213	231	229	250	113	218	214	220	213	209	205
<b>19</b>	216	212	228	227	176	118	222	218	220	209	218	209
<b>20</b>	219	214	228	227	176	81	223	219	210	209	219	214
<b>21</b>	216	214	230	227	174	129	225	221	210	207	218	213
<b>22</b>	216	214	231	228	200	174	230	219	209	207	216	213
<b>23</b>	216	214	231	229	224	200	222	218	209	193	216	211
<b>24</b>	216	215	230	229	236	220	223	221	193	75	211	208
<b>25</b>	216	215	230	228	244	232	223	89	128	87	213	208
<b>26</b>	217	215	230	224	246	243	105	70	152	128	210	209
<b>27</b>	217	215	225	224	254	245	114	105	168	152	216	208
<b>28</b>	217	216	226	225	252	235	128	106	179	168	210	206
<b>29</b>	218	216	228	225	243	182	140	113	187	179	209	202
<b>30</b>	218	217	226	225	185	172	138	113	---	---	210	208
<b>31</b>	218	217	---	---	205	185	141	66	---	---	218	202
<b>Month</b>	219	202	231	216	---	---	230	63	220	69	219	187

## 11462500 Russian River near Hopland, CA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>	<b>Max</b>	<b>Min</b>
	<b>April</b>		<b>May</b>		<b>June</b>		<b>July</b>		<b>August</b>		<b>September</b>	
<b>1</b>	205	194	195	191	190	176	180	177	178	176	188	187
<b>2</b>	202	197	195	191	196	190	179	178	179	177	188	187
<b>3</b>	203	198	195	193	196	193	178	177	179	177	187	186
<b>4</b>	199	196	195	194	195	193	178	177	179	178	188	186
<b>5</b>	199	196	195	193	197	194	179	177	180	178	---	---
<b>6</b>	198	197	197	194	198	196	179	178	180	179	---	---
<b>7</b>	203	196	198	196	196	193	180	178	181	180	---	---
<b>8</b>	197	196	198	196	194	191	180	179	181	180	---	---
<b>9</b>	202	196	198	195	191	190	180	176	182	180	---	---
<b>10</b>	197	196	198	196	192	190	177	175	183	181	---	---
<b>11</b>	198	196	197	195	193	188	176	173	183	181	---	---
<b>12</b>	198	194	195	194	189	187	175	173	183	182	---	---
<b>13</b>	199	197	195	193	187	184	176	174	185	182	---	---
<b>14</b>	200	198	194	192	186	184	176	173	185	183	---	---
<b>15</b>	202	199	193	189	185	183	173	172	185	183	---	---
<b>16</b>	202	195	189	186	184	182	174	172	191	184	195	192
<b>17</b>	196	194	187	185	184	182	174	173	195	190	217	193
<b>18</b>	197	195	186	185	184	182	174	172	196	194	211	192
<b>19</b>	199	196	185	184	183	181	174	173	197	195	194	191
<b>20</b>	204	193	185	184	184	182	175	174	199	196	195	193
<b>21</b>	202	187	185	183	186	181	176	174	197	195	196	194
<b>22</b>	192	184	183	181	181	179	176	174	197	194	197	195
<b>23</b>	188	184	183	179	180	178	175	173	195	193	201	197
<b>24</b>	194	185	181	180	180	178	176	174	196	191	200	199
<b>25</b>	190	185	181	180	180	178	176	174	195	190	201	199
<b>26</b>	189	188	184	181	180	178	176	174	195	189	201	200
<b>27</b>	191	189	182	180	179	177	176	174	196	190	201	199
<b>28</b>	192	190	182	180	179	176	176	175	195	189	201	199
<b>29</b>	192	191	182	180	178	176	177	175	193	188	202	200
<b>30</b>	193	191	180	178	179	177	178	176	190	188	206	202
<b>31</b>	---	---	179	177	---	---	178	176	189	187	---	---
<b>Month</b>	205	184	198	177	198	176	180	172	199	176	---	---

11462500 Russian River near Hopland, CA—Continued



## 11462500 Russian River near Hopland, CA—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

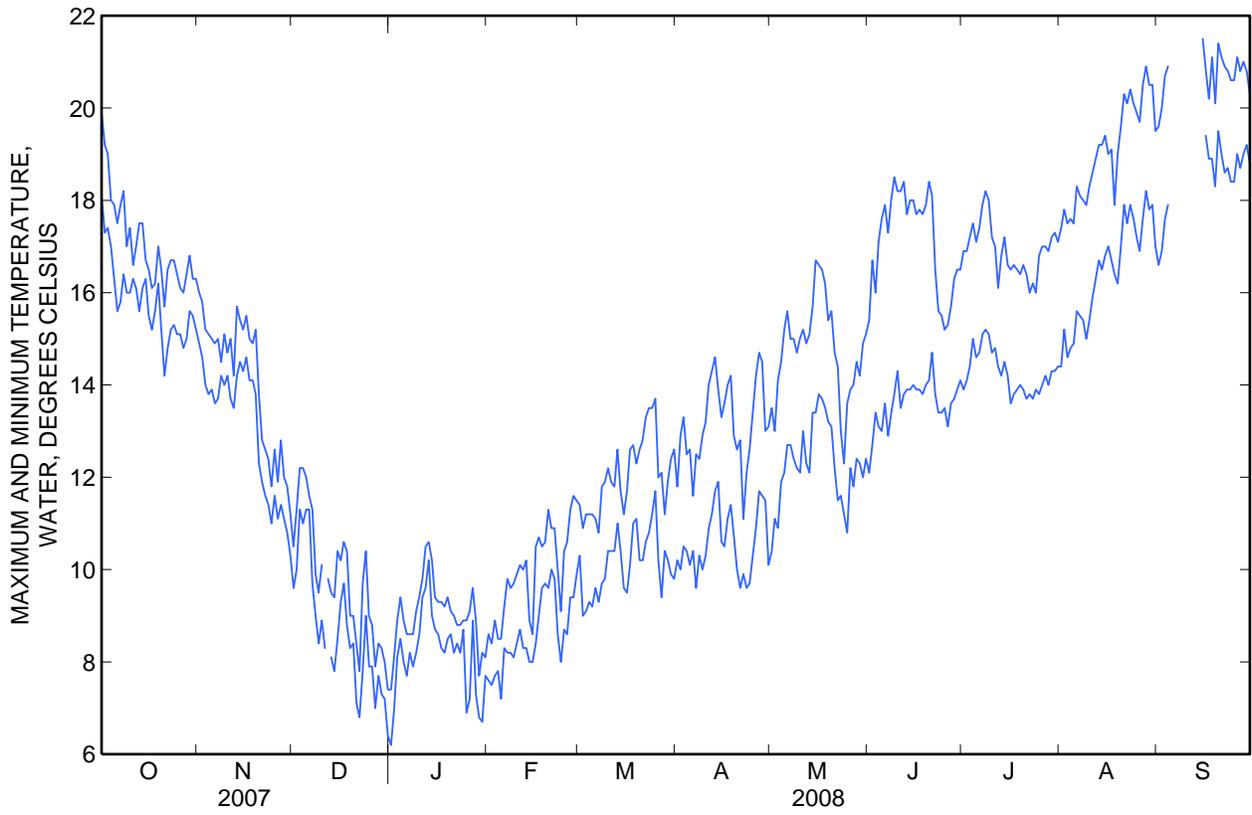
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
<b>1</b>	19.9	18.1	16.0	14.9	10.5	9.6	7.4	6.2	8.6	7.6	11.4	10.3
<b>2</b>	19.2	17.3	15.8	14.6	11.3	10.0	8.1	7.0	8.4	7.5	10.9	9.0
<b>3</b>	19.0	17.4	15.2	14.0	12.2	11.3	8.9	8.1	8.9	7.7	11.2	9.1
<b>4</b>	18.0	17.0	15.1	13.8	12.2	11.0	9.4	8.5	8.5	7.8	11.2	9.3
<b>5</b>	17.9	16.3	15.0	13.9	12.0	11.3	8.9	8.0	8.5	7.2	11.2	9.2
<b>6</b>	17.5	15.6	14.9	13.6	11.6	11.3	8.6	7.7	9.2	8.3	11.1	9.6
<b>7</b>	17.9	15.8	15.0	13.7	11.3	9.7	8.6	8.2	9.8	8.2	10.8	9.3
<b>8</b>	18.2	16.4	14.5	14.2	9.9	9.0	8.6	7.9	9.6	8.2	11.8	9.7
<b>9</b>	17.0	16.0	15.1	14.0	9.5	8.4	9.1	8.2	9.7	8.1	11.9	9.8
<b>10</b>	17.4	16.0	14.7	14.2	10.1	8.9	9.4	8.6	9.9	8.4	12.2	10.4
<b>11</b>	16.6	16.3	15.0	13.7	---	8.3	9.8	9.4	10.1	8.7	11.9	10.4
<b>12</b>	17.0	16.1	14.2	13.5	9.8	---	10.5	9.6	10.0	8.3	11.8	10.4
<b>13</b>	17.5	15.6	15.7	14.2	9.5	8.1	10.6	10.2	10.2	8.3	12.6	11.0
<b>14</b>	17.5	16.1	15.4	14.5	9.4	7.8	10.2	9.0	8.9	8.0	11.7	10.4
<b>15</b>	16.7	16.3	15.2	14.3	10.4	8.5	9.4	8.7	8.6	8.0	11.2	9.6
<b>16</b>	16.5	15.5	15.5	14.6	10.2	9.3	9.3	8.6	10.5	8.4	11.7	9.5
<b>17</b>	16.1	15.2	15.0	14.1	10.6	9.7	9.3	8.3	10.7	9.0	12.6	10.1
<b>18</b>	16.2	15.6	14.9	14.1	10.4	8.8	9.2	8.2	10.5	9.6	12.7	11.0
<b>19</b>	17.0	16.2	15.2	13.8	9.0	8.3	9.4	8.5	10.6	9.7	12.3	11.1
<b>20</b>	16.5	15.2	13.8	12.3	9.0	8.4	9.1	8.6	11.3	9.6	12.6	10.2
<b>21</b>	15.7	14.2	12.8	11.9	8.4	7.1	9.0	8.2	10.9	10.0	12.8	10.2
<b>22</b>	16.5	14.8	12.6	11.6	7.8	6.8	8.8	8.4	10.9	9.8	13.3	10.6
<b>23</b>	16.7	15.2	12.4	11.4	9.7	7.8	8.8	8.2	10.0	8.6	13.5	10.8
<b>24</b>	16.7	15.3	11.8	11.0	10.4	9.0	8.9	8.7	9.1	8.0	13.5	11.2
<b>25</b>	16.4	15.1	12.6	11.6	9.0	7.9	8.9	6.9	10.4	8.7	13.7	11.7
<b>26</b>	16.1	15.1	11.9	11.1	8.8	7.9	9.1	7.2	10.6	8.6	12.0	10.2
<b>27</b>	16.0	14.8	12.8	11.4	7.9	7.0	9.6	8.9	11.3	9.4	12.1	9.4
<b>28</b>	16.4	15.0	12.0	11.1	8.4	7.7	8.9	7.3	11.6	9.4	11.2	10.4
<b>29</b>	16.8	15.6	11.8	10.8	8.3	7.3	7.7	6.8	11.5	9.9	11.9	10.2
<b>30</b>	16.3	15.5	11.2	10.3	8.0	7.2	8.2	6.7	---	---	12.4	9.9
<b>31</b>	16.3	15.2	---	---	7.4	6.4	8.1	7.7	---	---	12.6	9.8
<b>Month</b>	19.9	14.2	16.0	10.3	---	---	10.6	6.2	11.6	7.2	13.7	9.0

## 11462500 Russian River near Hopland, CA—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
<b>1</b>	11.8	10.2	13.5	10.4	15.4	12.1	16.9	13.9	17.4	14.4	19.6	16.6
<b>2</b>	12.9	10.0	13.0	11.1	16.7	12.7	16.9	14.1	17.8	15.2	20.0	16.9
<b>3</b>	13.3	10.5	14.1	10.9	16.0	13.4	17.2	14.4	17.5	14.6	20.7	17.6
<b>4</b>	12.5	10.4	14.5	11.9	17.1	13.1	17.5	15.0	17.6	14.8	20.9	17.9
<b>5</b>	12.6	10.1	15.2	12.1	17.6	13.0	17.1	14.6	17.5	14.9	---	---
<b>6</b>	11.6	10.4	15.6	12.7	17.9	13.6	17.4	14.7	18.3	15.6	---	---
<b>7</b>	12.5	9.6	15.0	12.7	17.3	12.9	17.9	15.1	18.1	15.5	---	---
<b>8</b>	12.4	10.3	15.0	12.4	18.0	13.4	18.2	15.2	18.0	15.4	---	---
<b>9</b>	12.9	10.0	14.7	12.2	18.5	13.8	18.0	15.1	17.9	15.0	---	---
<b>10</b>	13.2	10.3	15.0	12.1	18.2	14.3	17.2	14.7	18.3	15.4	---	---
<b>11</b>	14.0	10.9	15.2	13.0	18.2	13.5	17.0	14.8	18.6	15.9	---	---
<b>12</b>	14.3	11.2	14.9	12.3	18.4	13.8	16.1	14.4	18.9	16.3	---	---
<b>13</b>	14.6	11.7	15.1	12.1	17.7	13.9	16.8	14.2	19.2	16.7	---	---
<b>14</b>	13.9	11.9	15.7	13.4	18.0	13.9	17.2	14.5	19.2	16.5	---	---
<b>15</b>	13.3	10.6	16.7	13.4	18.0	14.0	16.6	14.2	19.4	16.8	21.5	---
<b>16</b>	13.6	10.5	16.6	13.8	17.7	13.9	16.5	13.6	19.0	17.0	20.8	19.4
<b>17</b>	14.0	11.1	16.5	13.7	17.8	13.9	16.6	13.8	19.1	16.7	20.2	18.9
<b>18</b>	14.2	11.4	16.2	13.5	17.7	13.8	16.5	13.9	17.9	16.4	21.1	18.9
<b>19</b>	12.9	10.7	15.4	13.2	17.9	14.0	16.4	14.0	19.0	16.2	20.1	18.3
<b>20</b>	12.6	10.0	15.6	13.1	18.4	14.1	16.6	13.9	19.6	17.0	21.4	19.5
<b>21</b>	12.8	9.6	14.7	12.2	18.1	14.7	16.4	13.7	20.3	17.9	21.1	19.0
<b>22</b>	11.1	9.9	14.4	11.5	16.5	13.8	16.0	13.8	20.1	17.5	20.9	18.6
<b>23</b>	12.1	9.6	13.0	11.6	15.6	13.4	16.2	13.7	20.4	17.9	20.8	18.7
<b>24</b>	12.6	9.7	12.3	11.2	15.5	13.4	16.0	13.9	20.1	17.6	20.6	18.4
<b>25</b>	13.4	10.3	13.6	10.8	15.2	13.5	16.8	13.8	19.9	17.2	20.6	18.4
<b>26</b>	14.2	10.9	13.9	12.2	15.3	13.1	17.0	14.0	19.7	16.9	21.1	19.0
<b>27</b>	14.7	11.7	14.0	11.8	15.7	13.6	17.0	14.2	20.5	17.6	20.8	18.7
<b>28</b>	14.5	11.6	14.5	12.4	16.3	13.7	16.9	14.0	20.9	18.2	21.0	19.0
<b>29</b>	13.0	11.5	14.2	12.3	16.5	13.9	17.2	14.3	20.5	17.8	20.8	19.2
<b>30</b>	13.1	10.1	14.9	12.0	16.5	14.1	17.3	14.3	20.5	17.9	20.3	18.8
<b>31</b>	---	---	15.1	12.4	---	---	17.1	14.4	19.5	17.0	---	---
<b>Month</b>	14.7	9.6	16.7	10.4	18.5	12.1	18.2	13.6	20.9	14.4	---	---

11462500 Russian River near Hopland, CA—Continued



## 11462500 Russian River near Hopland, CA—Continued

## TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS

(TS086: YSI MODEL 6026-4000)

## WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[&gt;, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	23	13	17	---	---	---	14	9.8	12	21	14	17
2	19	12	16	9.0	6.0	7.2	14	8.9	11	18	13	15
3	20	12	16	9.9	6.0	7.2	15	10	13	170	15	18
4	20	10	17	7.1	4.8	6.0	550	11	160	>1,200	140	---
5	17	8.2	12	10	5.2	7.2	150	32	50	820	190	310
6	14	7.3	9.1	10	6.7	8.1	46	20	24	---	---	---
7	16	11	13	11	6.8	7.7	440	25	140	---	---	---
8	16	10	13	8.9	6.0	7.3	60	20	32	---	---	---
9	19	14	16	---	---	---	23	15	18	---	---	---
10	24	11	18	---	---	---	17	10	15	340	69	150
11	17	9.6	12	---	---	---	14	10	---	130	60	80
12	18	8.4	14	9.9	5.0	7.3	---	---	---	63	50	54
13	17	11	13	9.8	5.9	8.1	14	11	13	54	43	48
14	19	11	15	13	7.6	9.8	14	11	12	52	31	46
15	20	15	17	12	7.4	9.0	13	9.4	11	32	20	23
16	17	12	15	11	6.6	8.7	14	9.8	11	23	17	20
17	16	11	14	11	7.2	8.6	13	10	11	21	16	18
18	13	11	12	11	6.9	---	620	11	28	27	17	23
19	17	11	14	11	7.3	---	260	40	76	27	21	23
20	20	13	16	---	---	---	---	---	---	28	21	25
21	16	9.9	12	---	---	---	---	---	---	30	20	24
22	14	9.6	11	12	6.2	8.8	---	---	---	38	24	28
23	16	11	13	14	10	12	---	---	---	35	24	28
24	14	10	12	14	10	12	---	---	---	32	24	27
25	17	11	12	14	9.8	11	---	---	---	>1,200	23	540
26	17	9.1	12	15	10	12	---	---	---	>1,200	190	800
27	14	8.9	11	14	11	12	50	8.4	24	300	140	190
28	---	---	---	15	10	13	22	14	18	210	85	110
29	---	---	---	13	10	11	60	15	28	230	61	81
30	---	---	---	14	10	12	54	25	37	150	56	79
31	---	---	---	---	---	---	26	17	20	>1,200	50	71
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

## 11462500 Russian River near Hopland, CA—Continued

## TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS

(TS086: YSI MODEL 6026-4000)

WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[&gt;, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	>1,200	150	310	26	22	24	22	18	20	18	15	16
2	620	110	140	27	21	23	21	17	18	17	15	16
3	1,070	310	---	26	21	23	21	16	18	18	15	16
4	---	---	---	24	20	22	20	17	19	19	15	16
5	---	---	---	23	20	22	21	17	19	20	15	16
6	---	---	---	24	20	22	20	17	18	17	14	15
7	93	74	83	26	19	22	19	16	17	17	14	15
8	81	61	69	25	20	22	19	16	17	17	14	16
9	75	62	68	24	21	23	19	15	16	18	15	16
10	73	63	69	27	21	23	18	15	17	18	15	16
11	75	62	66	27	21	22	18	14	16	18	15	16
12	140	64	67	26	20	22	18	13	15	18	15	16
13	120	55	76	24	20	22	17	13	15	18	15	16
14	170	51	76	27	20	23	15	12	14	18	15	16
15	100	52	79	39	25	27	15	12	14	18	15	16
16	74	31	42	30	17	19	16	12	14	20	15	17
17	35	29	32	19	16	18	16	13	14	20	15	17
18	36	30	32	21	17	18	16	12	14	19	16	17
19	36	29	32	19	15	16	16	12	14	19	15	17
20	34	29	30	19	15	16	16	12	13	18	14	16
21	34	29	31	19	16	17	16	12	14	17	15	16
22	34	28	30	19	16	17	17	13	15	18	15	16
23	87	27	30	18	15	17	19	14	---	19	15	16
24	860	85	530	20	17	18	17	12	15	18	15	17
25	490	110	---	20	17	18	18	15	17	18	15	16
26	110	51	---	19	17	18	18	16	17	18	15	16
27	52	33	42	20	17	18	20	15	17	18	15	16
28	40	26	30	20	17	18	20	15	17	18	15	16
29	30	23	26	22	17	19	18	15	16	17	15	16
30	---	---	---	19	16	17	18	15	16	19	15	17
31	---	---	---	19	16	17	---	---	---	18	15	16
<b>Max</b>	---	---	---	39	25	27	22	18	---	20	16	17
<b>Min</b>	---	---	---	18	15	16	15	12	---	17	14	15

## 11462500 Russian River near Hopland, CA—Continued

## TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS

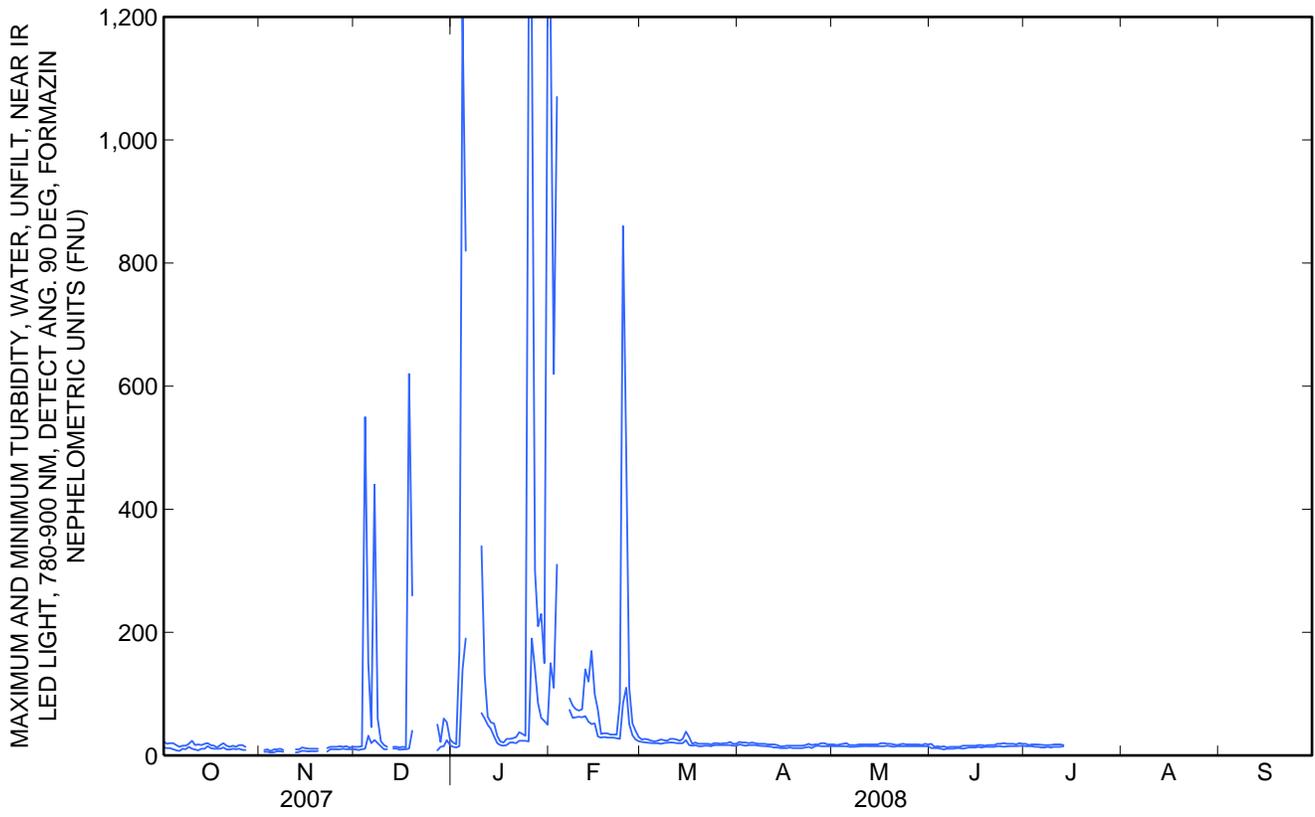
(TS086: YSI MODEL 6026-4000)

## WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[&gt;, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
<b>1</b>	19	12	16	19	15	16	---	---	---	---	---	---
<b>2</b>	14	12	13	17	15	16	---	---	---	---	---	---
<b>3</b>	15	12	13	18	15	16	---	---	---	---	---	---
<b>4</b>	14	11	---	18	14	16	---	---	---	---	---	---
<b>5</b>	15	10	12	18	14	16	---	---	---	---	---	---
<b>6</b>	13	11	12	17	13	16	---	---	---	---	---	---
<b>7</b>	14	11	12	17	13	15	---	---	---	---	---	---
<b>8</b>	14	11	12	17	14	15	---	---	---	---	---	---
<b>9</b>	14	12	13	17	13	15	---	---	---	---	---	---
<b>10</b>	14	12	13	18	14	16	---	---	---	---	---	---
<b>11</b>	16	11	13	18	14	16	---	---	---	---	---	---
<b>12</b>	16	12	14	18	14	16	---	---	---	---	---	---
<b>13</b>	16	13	14	17	15	16	---	---	---	---	---	---
<b>14</b>	16	13	14	---	---	---	---	---	---	---	---	---
<b>15</b>	16	13	14	---	---	---	---	---	---	---	---	---
<b>16</b>	17	14	15	---	---	---	---	---	---	---	---	---
<b>17</b>	17	13	15	---	---	---	---	---	---	---	---	---
<b>18</b>	16	14	15	---	---	---	---	---	---	---	---	---
<b>19</b>	17	14	15	---	---	---	---	---	---	---	---	---
<b>20</b>	17	14	15	---	---	---	---	---	---	---	---	---
<b>21</b>	17	14	15	---	---	---	---	---	---	---	---	---
<b>22</b>	19	15	16	---	---	---	---	---	---	---	---	---
<b>23</b>	19	15	16	---	---	---	---	---	---	---	---	---
<b>24</b>	20	14	16	---	---	---	---	---	---	---	---	---
<b>25</b>	19	15	---	---	---	---	---	---	---	---	---	---
<b>26</b>	19	15	16	---	---	---	---	---	---	---	---	---
<b>27</b>	19	15	16	---	---	---	---	---	---	---	---	---
<b>28</b>	18	15	16	---	---	---	---	---	---	---	---	---
<b>29</b>	20	16	17	---	---	---	---	---	---	---	---	---
<b>30</b>	19	16	17	---	---	---	---	---	---	---	---	---
<b>31</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	20	16	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	13	10	---	---	---	---	---	---	---	---	---	---

11462500 Russian River near Hopland, CA—Continued

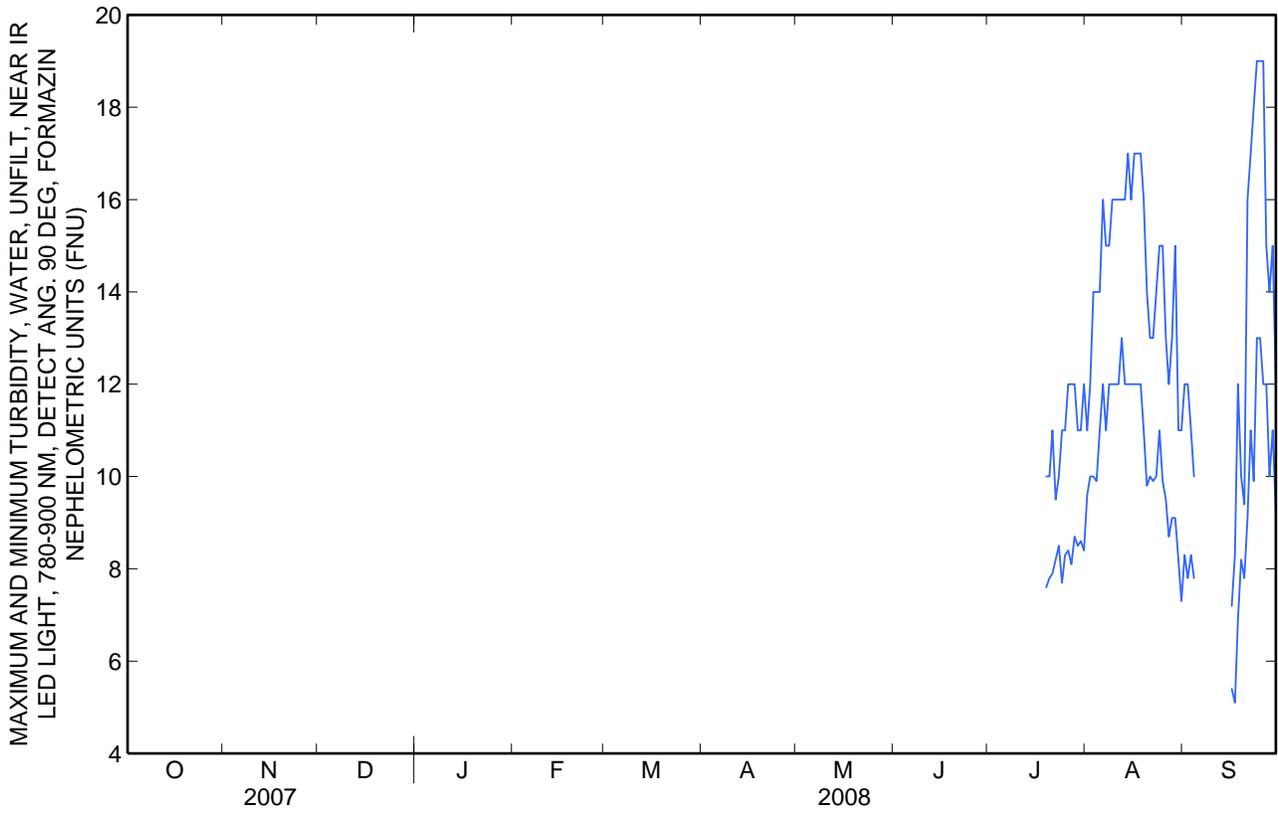


## 11462500 Russian River near Hopland, CA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS  
 (TS087: YSI MODEL 6136)  
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	---	---	---	---	---	---	11	9.6	10	12	8.3	9.3
2	---	---	---	---	---	---	12	10	11	12	7.8	9.2
3	---	---	---	---	---	---	14	10	12	11	8.3	9.9
4	---	---	---	---	---	---	14	9.9	12	10	7.8	8.8
5	---	---	---	---	---	---	14	11	13	---	---	---
6	---	---	---	---	---	---	16	12	13	---	---	---
7	---	---	---	---	---	---	15	11	13	---	---	---
8	---	---	---	---	---	---	15	12	13	---	---	---
9	---	---	---	---	---	---	16	12	13	---	---	---
10	---	---	---	---	---	---	16	12	14	---	---	---
11	---	---	---	---	---	---	16	12	14	---	---	---
12	---	---	---	---	---	---	16	13	14	---	---	---
13	---	---	---	---	---	---	16	12	15	---	---	---
14	---	---	---	---	---	---	17	12	15	---	---	---
15	---	---	---	---	---	---	16	12	14	---	---	---
16	---	---	---	---	---	---	17	12	13	7.2	5.4	6.3
17	---	---	---	---	---	---	17	12	13	8.3	5.1	6.3
18	---	---	---	---	---	---	17	12	13	12	6.9	8.3
19	---	---	---	10	7.6	9.3	16	11	12	10	8.2	8.7
20	---	---	---	10	7.8	9.2	14	9.8	11	9.4	7.8	8.6
21	---	---	---	11	7.9	9.1	13	10	12	16	9.1	11
22	---	---	---	9.5	8.2	8.9	13	9.9	12	17	11	14
23	---	---	---	10	8.5	9.2	14	10	12	18	9.9	---
24	---	---	---	11	7.7	9.1	15	11	12	19	13	15
25	---	---	---	11	8.3	9.3	15	9.9	12	19	13	16
26	---	---	---	12	8.4	10	13	9.5	11	19	12	14
27	---	---	---	12	8.1	9.7	12	8.7	9.8	15	12	14
28	---	---	---	12	8.7	9.9	13	9.1	11	14	10	12
29	---	---	---	11	8.5	9.6	15	9.1	---	15	11	12
30	---	---	---	11	8.6	---	11	8.2	9.3	12	9.2	11
31	---	---	---	12	8.4	10	11	7.3	8.7	---	---	---
<b>Max</b>	---	---	---	---	---	---	17	13	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	11	7.3	---	---	---	---

11462500 Russian River near Hopland, CA—Continued



## 11462500 Russian River near Hopland, CA—Continued

**CROSS SECTION ANALYSES**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 2

Date	Time	DepthTo bottom at sample locati- on, feet (81903)	Sam- pling depth, feet (00003)	Stream width, feet (00004)	Turb- idity, IR LED light, det ang 90 deg, FNU (63680)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)
<b>Apr</b>												
16...	1437	3.51	2.91	48.0	15	758	13.0	124	7.9	201	13.0	5.00
16...	1438	3.51	.88	48.0	17	757	13.0	124	7.9	201	13.0	5.00
16...	1439	3.27	2.66	48.0	14	758	13.0	124	7.9	201	13.0	9.00
16...	1440	3.27	.82	48.0	18	758	13.0	124	7.9	201	13.0	9.00
16...	1441	3.12	2.57	48.0	14	758	13.0	124	7.9	201	13.0	13.0
16...	1442	3.12	.91	48.0	15	758	13.0	124	7.9	201	13.0	13.0
16...	1443	3.24	2.64	48.0	14	758	13.0	124	7.9	201	13.0	17.0
16...	1444	3.24	1.03	48.0	15	758	13.1	125	7.9	201	13.0	17.0
16...	1445	3.17	2.52	48.0	14	758	13.1	125	7.9	201	13.0	21.0
16...	1446	3.17	1.09	48.0	15	757	13.1	125	8.0	201	13.0	21.0
16...	1447	3.15	2.49	48.0	14	757	13.1	125	7.9	201	13.1	25.0
16...	1448	3.15	.95	48.0	16	757	13.1	125	8.0	201	13.1	25.0
16...	1449	2.97	2.44	48.0	14	757	13.1	125	8.0	201	13.1	29.0
16...	1450	2.97	.73	48.0	14	757	13.1	125	8.0	201	13.1	29.0
16...	1451	2.83	2.31	48.0	14	757	13.1	125	8.0	201	13.1	33.0
16...	1452	2.83	.83	48.0	15	757	13.1	125	8.0	201	13.1	33.0
16...	1453	3.05	2.38	48.0	14	757	13.1	125	8.0	201	13.1	37.0
16...	1454	3.05	.99	48.0	14	757	13.1	125	8.0	201	13.2	37.0
16...	1455	3.64	2.92	48.0	15	757	13.1	126	8.0	201	13.1	41.0
16...	1456	3.64	1.20	48.0	15	757	13.1	125	8.0	201	13.1	41.0

Note: Instantaneous discharge at mean time of cross-sectional measurements: Apr. 16, 210 ft<sup>3</sup>/s.

## 11462500 Russian River near Hopland, CA—Continued

**CROSS SECTION ANALYSES**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 2

Date	Time	DepthTo bottom at sample locati- on, feet (81903)	Sam- pling depth, feet (00003)	Stream width, feet (00004)	Turb- idity, IR LED light, det ang 90 deg, FNU (63680)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Loca- tion in X-sect. looking downstrm ft from l bank (00009)
<b>Sep</b>												
25...	1133	2.49	.88	68.0	28	750	8.8	96	7.8	202	18.7	5.00
25...	1134	2.49	1.91	68.0	35	750	8.8	96	7.8	202	18.8	5.00
25...	1135	2.73	1.02	68.0	29	750	8.8	96	7.8	202	18.8	11.0
25...	1136	2.73	2.00	68.0	28	750	8.8	96	7.8	202	18.8	11.0
25...	1137	3.11	.95	68.0	28	750	8.8	96	7.8	202	18.8	17.0
25...	1138	3.11	2.11	68.0	29	750	8.8	96	7.8	202	18.8	17.0
25...	1139	3.24	1.03	68.0	29	750	8.8	97	7.8	202	18.8	23.0
25...	1140	3.24	2.32	68.0	28	750	8.9	97	7.8	202	18.8	23.0
25...	1141	3.30	1.24	68.0	28	750	8.9	97	7.8	202	18.8	30.0
25...	1142	3.30	2.47	68.0	28	750	8.9	97	7.8	202	18.8	30.0
25...	1143	3.35	.99	68.0	28	750	8.9	98	7.9	202	18.8	36.0
25...	1144	3.35	2.32	68.0	31	750	8.9	98	7.9	202	18.8	36.0
25...	1145	3.37	.98	68.0	28	750	9.0	98	7.9	202	18.9	42.0
25...	1146	3.37	2.22	68.0	29	750	9.0	98	7.9	202	18.9	42.0
25...	1147	3.27	.93	68.0	27	750	9.0	99	7.9	202	18.9	48.0
25...	1148	3.27	2.20	68.0	30	750	9.1	99	7.9	202	18.9	48.0
25...	1149	3.27	1.06	68.0	27	750	9.1	99	7.9	202	18.9	54.0
25...	1150	3.27	2.09	68.0	28	750	9.1	99	7.9	202	18.9	54.0
25...	1151	2.91	.89	68.0	30	750	9.1	100	7.9	202	18.9	60.0
25...	1152	2.91	1.96	68.0	30	750	9.2	101	7.9	202	18.9	60.0

Note: Instantaneous discharge at mean time of cross-sectional measurements: Sept. 25, 184 ft<sup>3</sup>/s.