14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR

Willamette Basin
North Santiam Subbasin

LOCATION.--Lat 44°42′25″, long 122°06′00″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.17, T.10 S., R.6 E., Marion County, OR, Hydrologic Unit 17090005, on right bank, 0.5 mi downstream from Boulder Creek, 3.0 mi southeast of Detroit and at mile 70.7.

DRAINAGE AREA.--216 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1907 to October 1909, October 1928 to current year. Monthly discharge only January 1907, published in WSP 1318. Prior to October 1952, published as "at Detroit."

REVISED RECORDS.--WSP 814: Drainage area at former site. WSP 1248: 1931. WDR OR-85-2: 1982-82(P).

GAGE.--Water-stage recorder. Datum of gage is 1,590.07 ft above NGVD of 1929. See WSP 1738 for history of changes prior to Oct. 1, 1952.

REMARKS.--No estimated daily discharges. Records good. Small diversions for log ponds upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--82 years (water years 1908-09, 1929-2008), 1,005 ft^3/s, 63.25 in/yr, 728,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,700 ft^3/s Dec. 22, 1964, on basis of slope-area measurement of peak flow, gage height, 13.76 ft, temporary backwater from debris; minimum discharge, 250 ft^3/s Sept. 13, 1909.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 17	1730	3,970	5.96
Dec 4	0800	*5,940	6.90
May 17	2330	5,830	*6.93

Minimum discharge, 395 ft^3/s, Oct. 14, 15, gage height, 2.84 ft.

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	551	529	706	954	767	1,170	866	1,510	2,770	1,700	670	560
2	460	511	842	920	752	1,150	841	1,430	2,580	1,580	673	553
3	564	496	3,170	915	723	1,090	827	1,620	2,910	1,510	658	549
4	589	484	5,410	972	685	1,020	835	1,770	3,090	1,380	646	545
5	504	474	4,030	1,010	675	955	828	1,960	2,530	1,250	643	543
6	454	466	3,400	962	671	904	841	2,220	2,460	1,180	649	542
7	441	456	2,650	912	736	865	850	2,260	2,370	1,130	663	540
8	445	450	2,070	950	717	934	848	2,110	2,160	1,090	646	534
9	428	444	1,690	935	723	960	844	1,970	2,140	1,070	631	530
10	434	530	1,460	1,230	735	979	848	1,900	2,150	1,050	618	526
11	435	512	1,280	1,800	733	1,250	857	2,020	2,000	988	611	521
12	422	733	1,160	1,870	724	1,290	941	1,970	1,840	943	612	518
13	409	1,210	1,060	1,820	737	1,330	1,210	1,900	1,920	925	608	517
14	400	868	992	1,610	724	1,430	1,480	2,050	2,100	912	607	515
15	397	798	963	1,510	708	1,380	1,400	2,680	2,120	882	604	515
16	435	1,100	907	1,340	702	1,250	1,270	3,940	2,130	863	603	515
17	455	2,830	903	1,220	699	1,160	1,210	5,000	2,130	835	606	513
18	555	3,010	985	1,130	700	1,470	1,230	5,190	2,020	810	616	510
19	1,970	2,530	1,150	1,060	716	1,700	1,170	4,680	1,920	788	603	506
20	1,440	1,830	1,220	1,020	734	1,500	1,100	4,630	1,950	774	769	507
21	1,230	1,430	1,060	944	759	1,360	1,040	4,150	2,000	766	796	512
22	1,030	1,200	1,010	895	772	1,240	1,010	3,330	1,940	758	665	526
23	1,020	1,050	1,400	862	773	1,210	1,040	2,740	1,820	742	625	511
24	983	953	2,300	835	784	1,290	1,020	2,380	1,670	722	609	500
25	888	876	1,770	798	802	1,220	1,000	2,420	1,630	714	615	514
26	761	824	1,520	807	835	1,190	1,020	2,400	1,610	707	595	506
27	679	819	1,360	840	846	1,110	1,120	2,380	1,620	703	587	496
28	630	767	1,270	789	867	1,060	1,380	2,680	1,810	695	585	494
29	598	768	1,170	785	919	1,000	1,750	2,920	1,910	686	580	491
30	585	728	1,120	768	---	948	1,680	2,640	1,870	686	575	491
31	553	---	1,010	795	---	901	---	2,740	---	675	563	---
Total	20,745	29,676	51,038	33,258	21,718	36,316	32,356	83,590	63,170	29,514	19,531	15,600
Mean	669	989	1,646	1,073	749	1,171	1,079	2,696	2,106	952	630	520
Max	1,970	3,010	5,410	1,870	919	1,700	1,750	5,190	3,090	1,700	796	560
Min	397	444	706	768	671	865	827	1,430	1,610	675	563	491
Ac-ft	41,150	58,860	101,200	65,970	43,080	72,030	64,180	165,800	125,300	58,540	38,740	30,940
Cfsm	3.10	4.58	7.62	4.97	3.47	5.42	4.99	12.5	9.75	4.41	2.92	2.41
In.	3.57	5.11	8.79	5.73	3.74	6.25	5.57	14.40	10.88	5.08	3.36	2.69

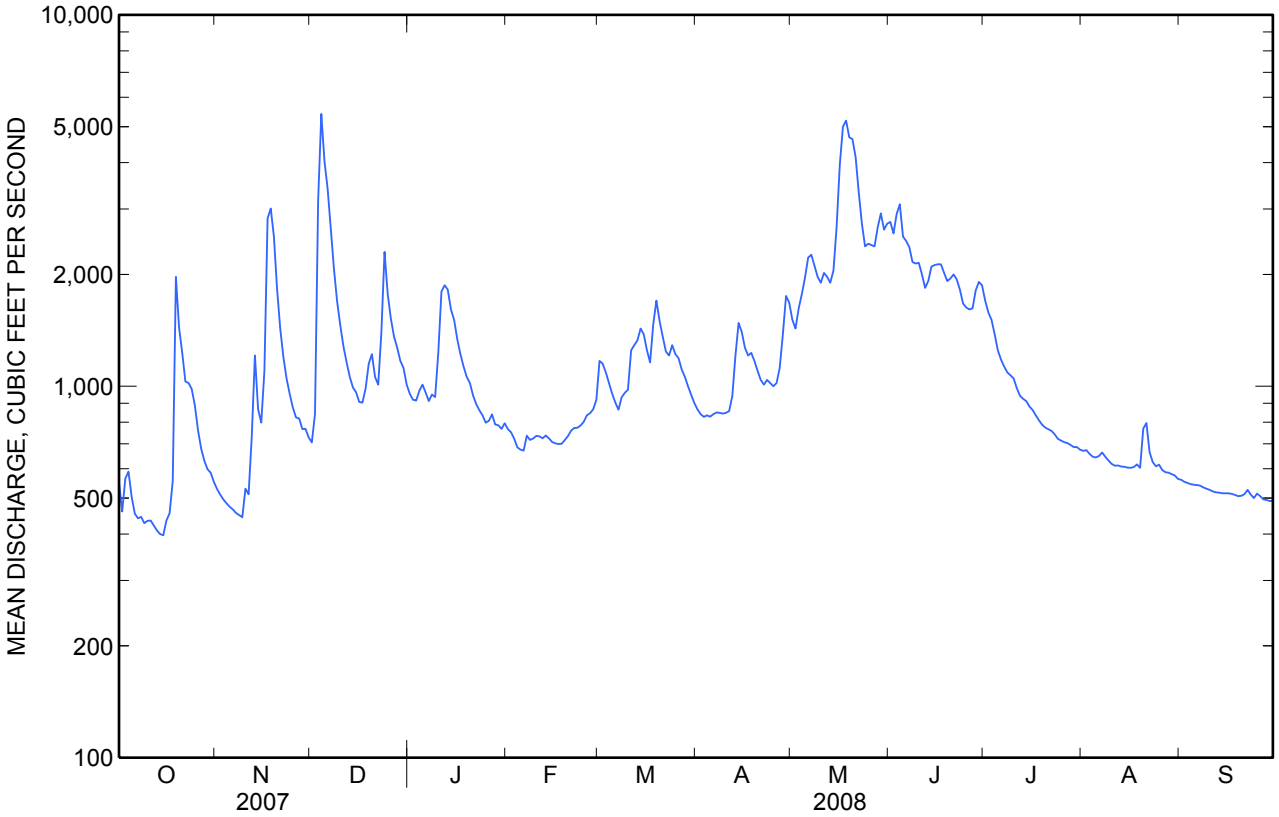
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	503	976	1,388	1,338	1,285	1,200	1,354	1,419	1,087	625	473	435
Max	1,215	2,167	3,840	2,991	3,552	2,865	2,241	2,762	2,759	1,101	723	595
(WY)	(1951)	(1951)	(1965)	(1953)	(1996)	(1972)	(2002)	(1949)	(1933)	(1950)	(1999)	(1971)
Min	312	335	432	383	404	616	610	600	412	363	319	302
(WY)	(1981)	(1994)	(1977)	(1937)	(1977)	(1941)	(1941)	(1992)	(1992)	(1992)	(1992)	(2001)

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1908 - 2008	
Annual total	356,133		436,512			
Annual mean	976		1,193		1,005	
Highest annual mean					1,506	1974
Lowest annual mean					569	1977
Highest daily mean	5,410	Dec 4	5,410	Dec 4	19,400	Dec 22, 1964
Lowest daily mean	370	Sep 25	397	Oct 15	250	Sep 13, 1909
Annual seven-day minimum	372	Sep 21	418	Oct 9	273	Sep 7, 1909
Annual runoff (ac-ft)	706,400		865,800		728,400	
Annual runoff (cfsm)	4.52		5.52		4.65	
Annual runoff (inches)	61.33		75.18		63.25	
10 percent exceeds	1,770		2,150		1,800	
50 percent exceeds	810		920		785	
90 percent exceeds	419		515		401	



WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1998 to current year.
pH: October 1998 to September 2008 (discontinued).
WATER TEMPERATURE: April 1951 to September 1987, October 1998 to current year.
TURBIDITY: October 1998 to current year.

INSTRUMENTATION.--Water-quality monitor. Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

REMARKS.--
SPECIFIC CONDUCTANCE: Records excellent except those for Oct. 1-11, Jan. 10 to May 1, which are good.
pH: Records excellent except those for Nov. 8 to Dec. 7, June 5 to July 23, which are good.
WATER TEMPERATURE: Records excellent.
TURBIDITY: Records excellent except those Oct. 1-11 which are good and those for July 24 to Sept. 30, which are fair. Data collected using a YSI 6026 turbidity sensor. Manufacturer's stated accuracy is the greater of +/- 5 percent or 2 Formazin Nephelometric Units. FNU values below 10 are reported to nearest 0.1 FNU. Negative recorded values are reported as 0.0 FNU.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 55 microsiemens Oct. 25, 2003; minimum recorded, 18 microsiemens Apr. 14, 2002.
pH: Maximum recorded, 8.4 units Sept. 16, 1999, Sept. 15, 2002, Aug. 2, 2007; minimum recorded, 6.8 units Mar. 28, Apr. 30, May 1, 2001.
WATER TEMPERATURE: Maximum recorded, 19.0°C July 18, 19, 1970; minimum recorded, 0.0°C on several days in January 1974, January, February 1979, January 1980, December 1998.
TURBIDITY: Maximum recorded, >1,770 FNU Oct. 1, 2000; minimum, <1 FNU on many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 50 microsiemens Oct. 2, 7, 14, 15; minimum, 26 microsiemens Dec. 4, May 17-21.
pH: Maximum, 8.1 units Sept. 17; minimum, 7.2 units May 16-20, June 3, 4.
WATER TEMPERATURE: Maximum, 15.6°C Aug. 16; minimum, 0.3°C Jan. 22.
TURBIDITY: Maximum, 438 FNU Aug. 20; minimum, 0.0 FNU on many days during year.

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Time	Instantaneous discharge, ft3/s (00061)	Suspnd. sediment, sieve diametr percent <62.5um (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
Oct					
11...	1152	431	67	3	3.5
11...	1159	431	--	23	27
19...	0502	2,380	40	379	2,440
19...	0702	3,210	77	232	2,010
19...	0902	2,910	81	171	1,340
19...	1102	2,430	77	83	545
27...	0902	684	--	8	15
27...	1302	671	--	2	3.6
Dec					
03...	1402	3,310	78	121	1,080
03...	1602	3,860	--	145	1,510
03...	1802	4,370	--	186	2,190
03...	2002	4,900	68	208	2,750
03...	2202	5,180	--	233	3,260
04...	0002	5,330	--	148	2,130
04...	0202	5,400	--	122	1,780
04...	0602	5,870	44	179	2,840

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	49	47	48	44	44	44	42	41	42	40	40	40
2	50	49	49	45	44	44	41	38	40	40	40	40
3	49	47	48	45	45	45	38	28	33	40	40	40
4	49	47	48	45	45	45	28	26	28	40	40	40
5	49	48	48	46	45	46	30	28	29	40	39	39
6	49	48	49	46	46	46	31	30	30	40	40	40
7	50	49	49	46	45	45	33	31	32	41	40	40
8	49	48	48	45	45	45	34	33	34	41	39	40
9	49	48	48	45	45	45	35	34	35	41	39	41
10	49	48	48	45	44	44	36	35	36	41	37	39
11	49	48	48	45	44	44	37	36	37	37	37	37
12	49	48	49	45	38	43	38	37	38	37	37	37
13	49	49	49	39	36	37	39	38	38	38	37	37
14	50	49	49	41	39	40	39	39	39	38	37	38
15	50	48	49	41	41	41	39	39	39	39	37	38
16	49	48	49	41	36	39	40	39	40	39	39	39
17	49	48	48	36	28	32	40	39	40	40	39	40
18	49	46	48	31	29	31	40	39	40	40	40	40
19	46	35	42	34	31	33	39	38	39	40	40	40
20	41	38	39	36	34	35	39	38	39	40	40	40
21	42	40	41	37	36	36	40	39	40	41	40	41
22	42	41	41	38	37	37	41	40	40	41	41	41
23	41	40	41	38	38	38	40	34	38	42	41	41
24	40	40	40	39	38	39	35	33	34	42	42	42
25	40	39	39	42	39	39	36	35	36	42	42	42
26	41	40	40	40	39	40	38	36	37	42	40	42
27	42	41	42	40	39	40	38	36	38	42	41	41
28	43	42	42	41	40	41	38	36	37	42	42	42
29	43	43	43	41	40	40	38	38	38	42	42	42
30	44	43	43	42	41	41	39	38	38	42	42	42
31	44	44	44	---	---	---	40	39	39	42	41	42
Month	50	35	45	46	28	40	42	26	37	42	37	40

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	43	42	42	42	41	41	43	42	42	39	37	38
2	43	42	43	42	40	42	43	42	43	38	38	38
3	44	43	43	41	41	41	43	42	43	38	37	37
4	45	44	44	42	41	41	42	42	42	37	36	37
5	44	43	43	42	42	42	42	42	42	36	36	36
6	43	43	43	42	42	42	43	42	42	40	35	37
7	43	42	42	42	42	42	43	42	43	41	40	40
8	44	43	43	42	42	42	43	43	43	42	41	41
9	44	43	44	42	41	42	44	43	43	43	42	42
10	44	44	44	41	41	41	43	43	43	43	43	43
11	45	44	44	41	39	40	43	43	43	43	43	43
12	45	44	44	40	40	40	43	42	42	44	43	43
13	44	44	44	40	39	40	42	40	41	44	43	44
14	45	44	44	40	40	40	40	40	40	45	40	42
15	45	44	45	41	40	41	41	40	40	40	35	39
16	45	44	44	42	41	41	41	40	41	35	28	32
17	45	45	45	42	41	41	41	41	41	28	26	28
18	45	45	45	41	38	40	41	41	41	28	26	26
19	45	45	45	39	38	38	41	41	41	28	26	27
20	45	44	45	40	39	39	42	41	41	26	26	26
21	44	44	44	41	40	40	42	41	41	28	26	27
22	44	43	44	41	40	40	42	41	41	29	28	28
23	44	43	43	41	40	41	42	41	41	30	29	29
24	44	43	43	40	40	40	42	41	42	31	30	31
25	44	43	43	40	40	40	42	42	42	30	30	30
26	44	43	43	40	40	40	42	41	41	30	30	30
27	43	43	43	41	40	41	41	40	40	30	30	30
28	43	43	43	42	41	41	40	38	39	30	29	29
29	43	42	43	42	41	42	38	37	37	29	28	28
30	---	---	---	42	41	41	39	37	38	29	29	29
31	---	---	---	42	41	42	---	---	---	29	28	29
Month	45	42	44	42	38	41	44	37	41	45	26	34

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	29	28	28	32	31	32	44	43	43	47	46	46
2	29	28	29	32	32	32	43	43	43	47	46	47
3	29	28	29	33	32	32	44	43	44	47	46	47
4	28	28	28	34	32	33	44	44	44	47	47	47
5	30	28	29	37	34	35	45	44	44	48	47	47
6	30	29	29	36	35	35	44	44	44	48	47	47
7	31	30	30	37	35	36	45	43	45	49	47	48
8	31	31	31	37	36	37	45	44	44	48	47	48
9	31	31	31	38	37	37	45	44	44	48	47	48
10	31	31	31	37	36	37	45	45	45	48	47	48
11	32	31	32	39	37	37	46	45	45	48	47	48
12	33	32	33	39	38	39	46	44	45	48	46	47
13	32	32	32	40	38	39	46	44	45	48	46	47
14	32	32	32	41	39	40	45	44	45	48	47	47
15	32	30	32	41	39	39	45	44	45	48	46	47
16	32	30	31	40	39	39	45	44	44	48	46	47
17	32	31	31	41	39	40	45	44	44	48	46	47
18	32	31	32	42	40	41	45	44	44	48	46	47
19	32	32	32	42	41	41	45	45	45	48	46	47
20	32	31	32	42	41	41	45	41	43	48	46	47
21	32	31	31	42	41	41	44	41	42	48	46	47
22	32	31	31	42	41	41	45	44	44	47	46	47
23	32	31	32	43	42	42	46	45	45	47	47	47
24	33	32	32	43	43	43	46	46	46	48	47	47
25	32	32	32	44	43	43	46	45	46	48	47	48
26	33	32	32	44	43	43	47	46	46	48	48	48
27	33	32	32	44	44	44	47	46	46	48	47	48
28	32	30	32	44	44	44	46	46	46	48	47	48
29	32	30	31	44	43	44	47	46	46	49	48	48
30	32	30	31	44	43	44	47	46	46	49	47	48
31	---	---	---	44	44	44	47	46	46	---	---	---
Month	33	28	31	44	31	39	47	41	45	49	46	47

	Max	Min	Mean
Year	50	26	40

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

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

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		February			March			April			May	
1	7.6	7.5	7.6	7.6	7.5	7.6	7.7	7.6	7.6	7.6	7.4	7.6
2	7.6	7.5	7.6	7.6	7.5	7.6	7.7	7.6	7.6	7.7	7.5	7.6
3	7.6	7.5	7.6	7.6	7.5	7.6	7.7	7.6	7.6	7.6	7.5	7.6
4	7.6	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.6
5	7.6	7.5	7.6	7.6	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.5
6	7.6	7.6	7.6	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.5
7	7.6	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.5
8	7.6	7.5	7.5	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.6
9	7.6	7.5	7.5	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.6
10	7.6	7.5	7.5	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.6
11	7.6	7.5	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.6	7.5	7.6
12	7.6	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.6	7.4	7.5
13	7.6	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.5	7.4	7.4
14	7.6	7.5	7.6	7.6	7.5	7.5	7.6	7.5	7.5	7.5	7.4	7.4
15	7.6	7.5	7.5	7.6	7.5	7.6	7.6	7.5	7.5	7.5	7.3	7.4
16	7.6	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.4	7.2	7.3
17	7.6	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.4	7.2	7.3
18	7.6	7.5	7.6	7.6	7.5	7.5	7.6	7.5	7.5	7.3	7.2	7.3
19	7.6	7.5	7.6	7.6	7.5	7.5	7.6	7.5	7.5	7.4	7.2	7.3
20	7.7	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.4	7.2	7.3
21	7.7	7.6	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.4	7.3	7.3
22	7.7	7.5	7.6	7.6	7.5	7.6	7.6	7.5	7.5	7.4	7.3	7.4
23	7.7	7.6	7.6	7.6	7.5	7.6	7.6	7.5	7.6	7.4	7.3	7.4
24	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.4	7.4
25	7.7	7.5	7.6	7.6	7.6	7.6	7.6	7.5	7.6	7.5	7.3	7.4
26	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.6	7.5	7.3	7.4
27	7.7	7.5	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.3	7.4
28	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.5	7.4	7.3	7.4
29	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.5	7.4	7.3	7.4
30	---	---	---	7.7	7.6	7.6	7.6	7.5	7.5	7.5	7.3	7.4
31	---	---	---	7.7	7.6	7.6	---	---	---	7.5	7.3	7.4
Max	7.7	7.6	7.6	7.7	7.6	7.6	7.7	7.6	7.6	7.7	7.5	7.6
Min	7.6	7.5	7.5	7.6	7.5	7.5	7.6	7.5	7.5	7.3	7.2	7.3

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
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	7.5	7.3	7.4	7.6	7.4	7.5	7.7	7.5	7.6	8.0	7.6	7.7
2	7.5	7.3	7.4	7.6	7.3	7.5	7.8	7.6	7.6	7.9	7.6	7.7
3	7.4	7.2	7.3	7.5	7.3	7.4	7.7	7.5	7.6	7.9	7.6	7.6
4	7.4	7.2	7.4	7.5	7.3	7.4	7.8	7.5	7.6	7.9	7.6	7.6
5	7.5	7.4	7.4	7.5	7.3	7.4	7.8	7.5	7.6	7.9	7.6	7.6
6	7.5	7.4	7.4	7.6	7.3	7.5	7.7	7.5	7.6	7.9	7.6	7.6
7	7.5	7.4	7.4	7.6	7.4	7.5	7.8	7.5	7.6	7.9	7.6	7.6
8	7.5	7.4	7.4	7.6	7.4	7.4	7.8	7.5	7.6	7.9	7.6	7.6
9	7.5	7.4	7.5	7.6	7.4	7.4	7.8	7.6	7.6	7.9	7.6	7.6
10	7.5	7.4	7.4	7.6	7.4	7.5	7.8	7.6	7.6	7.9	7.6	7.6
11	7.5	7.4	7.5	7.6	7.4	7.5	7.8	7.5	7.6	7.9	7.6	7.6
12	7.6	7.4	7.5	7.6	7.4	7.5	7.8	7.5	7.6	8.0	7.6	7.6
13	7.6	7.4	7.5	7.6	7.4	7.5	7.8	7.5	7.6	8.0	7.6	7.6
14	7.6	7.4	7.4	7.6	7.4	7.5	7.8	7.5	7.6	8.0	7.6	7.6
15	7.5	7.4	7.4	7.6	7.4	7.5	7.8	7.5	7.6	8.0	7.6	7.6
16	7.6	7.4	7.4	7.6	7.4	7.5	7.8	7.5	7.6	8.0	7.5	7.6
17	7.6	7.4	7.5	7.7	7.5	7.5	7.8	7.5	7.6	8.1	7.5	7.6
18	7.6	7.4	7.5	7.7	7.5	7.6	7.9	7.5	7.6	8.0	7.6	7.6
19	7.6	7.4	7.5	7.7	7.5	7.6	7.9	7.6	7.6	8.0	7.6	7.6
20	7.6	7.4	7.4	7.7	7.5	7.6	7.8	7.6	7.6	8.0	7.5	7.6
21	7.5	7.4	7.4	7.7	7.5	7.6	7.8	7.6	7.6	8.0	7.6	7.6
22	7.6	7.4	7.5	7.7	7.5	7.6	7.8	7.6	7.7	8.0	7.6	7.6
23	7.6	7.4	7.5	7.8	7.5	7.6	7.9	7.6	7.6	7.9	7.6	7.6
24	7.6	7.4	7.5	7.8	7.6	7.7	7.9	7.6	7.7	8.0	7.6	7.6
25	7.6	7.4	7.5	7.8	7.6	7.7	7.9	7.6	7.7	8.0	7.5	7.6
26	7.6	7.4	7.5	7.8	7.6	7.7	7.9	7.6	7.7	8.0	7.6	7.6
27	7.6	7.4	7.5	7.8	7.6	7.7	7.9	7.6	7.7	7.9	7.5	7.6
28	7.6	7.3	7.4	7.8	7.6	7.7	7.9	7.6	7.6	7.9	7.5	7.6
29	7.6	7.3	7.4	7.8	7.6	7.7	7.9	7.6	7.6	8.0	7.5	7.6
30	7.6	7.3	7.4	7.8	7.6	7.7	8.0	7.6	7.7	8.0	7.5	7.5
31	---	---	---	7.7	7.5	7.6	8.0	7.6	7.7	---	---	---
Max	7.6	7.4	7.5	7.8	7.6	7.7	8.0	7.6	7.7	8.1	7.6	7.7
Min	7.4	7.2	7.3	7.5	7.3	7.4	7.7	7.5	7.6	7.9	7.5	7.5

	Max	Min	Median
Year Maximum	8.1	7.7	7.7
Year Minimum	7.3	7.2	7.3

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	9.0	8.0	8.5	6.0	5.0	5.5	4.0	3.0	3.7	3.2	2.2	2.7
2	9.0	8.2	8.6	5.7	4.8	5.2	3.9	2.8	3.3	3.7	3.0	3.4
3	8.8	8.0	8.5	5.3	4.1	4.8	4.9	3.9	4.5	4.1	3.6	3.8
4	8.0	7.1	7.6	5.7	4.5	5.2	5.5	4.9	5.2	4.3	3.7	4.0
5	8.0	7.0	7.5	5.8	4.8	5.4	5.7	5.3	5.4	4.1	2.6	3.3
6	7.8	6.7	7.2	5.8	4.7	5.3	5.6	5.3	5.4	3.0	2.6	2.8
7	9.2	7.6	8.3	5.8	4.6	5.3	5.4	5.0	5.2	3.2	2.2	2.8
8	9.6	8.5	9.1	6.1	4.9	5.6	5.0	4.1	4.6	2.8	1.4	2.0
9	9.3	8.2	8.6	6.8	5.4	6.0	4.1	3.2	3.7	3.3	2.1	2.7
10	9.0	8.4	8.7	7.2	6.4	6.9	4.1	3.4	3.9	3.5	3.1	3.3
11	8.5	7.5	7.9	6.4	5.5	6.0	3.9	2.7	3.2	4.1	3.3	3.7
12	8.8	7.8	8.2	6.6	5.0	5.7	4.5	3.9	4.2	4.4	3.9	4.2
13	8.8	8.0	8.3	6.6	5.0	5.9	4.1	3.5	3.7	4.1	3.8	3.9
14	8.4	6.8	7.7	6.0	4.2	5.1	4.2	3.3	3.7	4.3	3.5	3.8
15	8.4	7.7	8.1	7.2	6.0	6.6	4.4	4.1	4.3	3.7	3.1	3.4
16	8.3	7.2	7.8	7.2	6.9	7.0	4.3	3.8	4.1	3.2	2.5	2.7
17	7.4	6.7	7.1	7.8	7.2	7.4	4.1	3.7	3.9	3.3	2.1	2.6
18	7.8	6.6	7.1	7.4	5.4	6.7	4.6	3.9	4.3	3.6	3.3	3.4
19	8.4	7.0	8.0	5.8	5.2	5.4	4.4	3.8	4.2	3.6	2.9	3.3
20	7.0	6.1	6.3	5.4	4.8	5.1	3.8	3.3	3.5	4.0	3.1	3.6
21	7.6	6.1	6.7	4.8	4.3	4.6	3.7	3.4	3.5	3.1	0.9	1.7
22	7.4	5.9	6.7	4.4	3.6	3.9	3.6	3.0	3.3	1.6	0.3	0.9
23	7.8	6.3	7.1	3.8	3.0	3.4	4.2	3.6	4.0	2.1	0.8	1.4
24	8.0	6.7	7.4	4.3	3.3	3.8	3.8	3.4	3.6	2.2	0.9	1.6
25	7.8	5.8	6.7	4.3	3.4	3.7	3.8	3.1	3.3	1.8	0.8	1.3
26	6.0	4.9	5.5	4.1	2.9	3.4	3.3	2.8	3.1	2.9	1.8	2.3
27	6.2	4.4	5.3	4.2	3.8	3.9	3.2	2.3	2.9	2.3	1.9	2.1
28	6.5	5.0	5.8	3.8	3.1	3.6	3.3	2.3	2.8	2.7	2.0	2.4
29	7.0	5.6	6.3	4.1	3.0	3.6	3.9	3.3	3.6	2.4	1.0	1.6
30	7.4	6.5	7.1	4.2	3.8	4.0	3.4	2.5	2.8	2.3	1.0	1.7
31	6.5	4.6	5.3	---	---	---	2.8	2.3	2.5	2.1	1.3	1.6
Month	9.6	4.4	7.4	7.8	2.9	5.1	5.7	2.3	3.9	4.4	0.3	2.7

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	2.6	1.5	2.1	4.7	3.3	3.8	5.0	2.2	3.6	7.0	4.0	5.2
2	2.2	1.1	1.6	4.8	3.7	4.1	5.6	2.6	4.0	6.9	4.4	5.5
3	3.3	1.4	2.5	4.3	3.4	3.9	6.0	2.9	4.4	6.1	4.8	5.4
4	3.4	2.2	2.8	5.0	3.5	4.2	4.8	3.4	3.9	7.9	4.4	5.8
5	3.2	2.7	3.1	4.3	2.8	3.6	5.0	3.4	4.2	7.6	4.1	5.6
6	3.5	2.5	2.9	4.6	2.9	3.7	5.5	3.9	4.7	6.6	4.4	5.3
7	2.6	2.0	2.2	4.7	3.1	3.9	5.2	3.6	4.4	6.2	4.4	5.1
8	3.5	2.3	3.1	5.3	3.9	4.5	5.3	3.7	4.5	6.7	4.3	5.3
9	4.0	3.2	3.6	5.3	3.3	4.3	5.7	3.8	4.8	7.4	4.1	5.5
10	4.1	3.3	3.7	5.5	3.9	4.7	6.2	4.2	5.1	6.1	4.4	5.2
11	4.4	3.4	3.9	5.2	4.2	4.7	7.1	3.8	5.2	6.0	4.6	5.2
12	4.4	3.2	3.8	5.2	3.7	4.4	7.6	3.8	5.5	7.2	4.2	5.4
13	4.3	3.4	3.9	4.7	4.1	4.4	7.0	4.0	5.4	5.4	4.6	5.0
14	3.9	3.3	3.6	4.5	3.5	4.0	5.5	4.2	4.7	7.3	4.7	5.6
15	4.2	2.8	3.5	4.9	3.4	4.1	4.9	3.6	4.1	8.2	4.3	5.8
16	4.1	3.2	3.7	5.2	3.8	4.4	6.8	3.9	5.0	7.5	4.1	5.3
17	3.8	2.6	3.3	4.8	3.9	4.3	7.4	4.4	5.6	7.2	4.1	5.2
18	4.0	2.7	3.4	4.7	4.1	4.4	5.4	4.0	4.5	6.9	4.0	5.1
19	4.3	2.9	3.7	4.5	3.8	4.1	4.3	3.3	3.7	7.3	4.1	5.3
20	4.9	3.9	4.3	4.8	3.5	4.0	4.6	3.0	3.7	5.2	4.5	4.8
21	4.7	3.4	4.1	4.7	3.3	3.9	4.6	3.2	3.9	5.1	4.1	4.5
22	4.7	3.4	4.1	5.3	3.1	4.1	5.0	3.4	4.2	5.6	4.2	4.8
23	4.6	3.8	4.2	4.7	3.8	4.3	5.5	4.0	4.7	5.2	4.4	4.8
24	4.7	3.9	4.3	5.2	3.8	4.4	5.5	3.6	4.5	7.7	4.6	5.7
25	5.0	4.1	4.5	4.9	3.2	4.1	7.4	4.2	5.5	6.3	4.9	5.5
26	4.8	3.8	4.3	4.4	3.0	3.4	7.6	3.8	5.6	5.7	4.9	5.3
27	5.1	3.7	4.3	4.6	2.7	3.6	7.3	4.1	5.7	7.2	4.9	5.8
28	4.8	3.3	4.1	3.7	2.6	3.0	6.7	4.7	5.6	5.8	5.0	5.2
29	5.3	3.7	4.5	4.4	2.2	3.3	5.4	4.0	4.8	5.7	4.6	5.1
30	---	---	---	4.6	3.0	3.7	5.4	3.5	4.3	8.1	4.7	6.1
31	---	---	---	5.0	3.1	3.9	---	---	---	7.9	4.9	6.1
Month	5.3	1.1	3.6	5.5	2.2	4.0	7.6	2.2	4.7	8.2	4.0	5.3

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	7.3	5.1	6.0	11.7	8.5	9.9	12.1	10.0	11.2	11.5	8.7	10
2	7.5	4.9	6.0	12.5	8.8	10.4	13.5	10.5	11.8	11.1	8.3	9.8
3	6.2	5.2	5.6	12.4	9.0	10.5	13.3	9.2	11.2	11.4	8.2	9.8
4	6.6	4.6	5.5	10.6	9.2	9.9	13.7	9.6	11.5	11.8	8.7	10.3
5	5.7	4.4	5.1	10.8	8.9	9.7	14.5	10.3	12.3	12.1	9.0	10.6
6	5.5	4.9	5.2	12.8	9.0	10.6	13.4	10.8	12.0	12.4	9.3	10.9
7	6.4	4.8	5.5	13.0	8.8	10.7	14.2	10.8	12.4	12.6	9.7	11.2
8	8.6	4.9	6.4	13.4	8.9	10.9	14.6	11.6	13.0	12.2	9.2	10.8
9	6.6	5.5	6.0	13.9	9.6	11.5	12.9	10.5	11.6	12.3	9.6	11.0
10	5.8	4.6	5.1	13.4	9.5	11.3	13.5	9.8	11.5	11.4	9.0	10.4
11	6.1	4.9	5.4	12.9	8.5	10.6	14.1	9.8	11.9	11.4	8.4	10
12	9.0	4.5	6.5	13.5	8.7	10.9	14.4	10.6	12.5	11.6	8.7	10.3
13	9.6	5.4	7.2	14.0	9.6	11.6	14.7	10.7	12.7	11.3	8.8	10.2
14	9.2	5.4	7.1	12.8	9.8	11.4	15.1	11.1	13.0	11.5	8.7	10.2
15	9.3	5.3	7.1	13.7	10.1	11.7	15.3	11.4	13.3	11.8	9.3	10.7
16	9.6	5.4	7.3	14.1	9.9	11.8	15.6	11.7	13.6	12.3	9.6	11.0
17	9.4	5.8	7.4	13.8	9.6	11.5	14.6	12.8	13.6	12.1	10.3	11.4
18	9.5	5.6	7.3	13.4	9.3	11.3	13.7	12.2	13.0	11.8	10.1	11.1
19	10.0	5.8	7.6	13.6	9.1	11.2	12.9	11.4	12.3	11.0	8.9	10.1
20	9.7	6.4	7.9	13.5	9.6	11.5	12.2	11.2	11.5	10.9	9.9	10.4
21	9.2	6.8	7.9	14.2	10.2	12.0	11.6	10.7	11.1	10.3	9.4	9.9
22	10.2	6.2	8.0	12.9	10.2	11.4	13.0	9.6	11.2	10.3	8.9	9.6
23	9.4	6.4	7.8	13.3	9.6	11.3	13.5	10.0	11.7	9.3	6.9	8.2
24	10.5	6.2	8.2	13.4	8.9	11.0	13.4	10.7	12.1	10.0	7.9	9.0
25	10.9	6.8	8.7	13.8	9.9	11.7	12.5	10.9	11.6	10.2	9.2	9.7
26	10.9	7.0	8.8	13.7	9.7	11.6	12.5	9.8	11.0	9.6	8.1	9.0
27	11.8	7.4	9.3	13.7	10.4	11.8	11.5	9.8	10.6	9.5	7.8	8.8
28	12.2	8.1	9.9	13.8	9.4	11.5	12.7	9.0	10.8	9.8	7.5	8.7
29	11.5	8.5	9.9	12.1	9.8	10.7	13.6	10.0	11.8	10.4	8.2	9.4
30	12.1	8.3	9.9	13.9	10.0	11.6	12.7	10.8	11.8	10.7	9.1	10
31	---	---	---	13.7	9.4	11.5	10.8	8.8	9.7	---	---	---
Month	12.2	4.4	7.2	14.2	8.5	11.1	15.6	8.8	11.9	12.6	6.9	10.1

	Max	Min	Mean
Year	15.6	0.3	6.4

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		October			November			December			January	
1	7.4	1.1	1.7	2.8	0.7	0.9	2.3	0.2	0.4	2.1	0.0	0.2
2	2.0	1.0	1.1	1.3	0.7	0.9	12	0.3	1.1	2.1	0.0	0.2
3	5.2	1.0	1.9	2.0	0.6	0.8	86	7.5	38	2.9	0.0	0.2
4	3.2	1.0	1.2	1.1	0.7	0.8	64	16	32	4.2	0.0	0.5
5	2.0	1.0	1.1	3.1	0.7	0.8	20	6.5	10	5.0	0.1	0.5
6	2.7	1.1	1.1	1.2	0.7	0.8	7.6	4.3	5.4	6.9	0.0	0.3
7	6.8	1.1	1.1	1.7	0.2	0.4	9.9	2.3	3.6	5.4	0.0	0.2
8	1.5	1.1	1.1	0.7	0.1	0.3	5.7	1.6	2.2	3.1	0.0	0.5
9	2.1	1.1	1.1	0.8	0.2	0.3	5.1	1.1	1.6	1.5	0.1	0.3
10	3.5	1.1	1.2	3.0	0.4	0.9	3.1	0.8	1.1	4.0	0.1	1.9
11	1.4	0.6	1.2	1.2	0.2	0.5	5.9	0.7	0.9	6.5	1.3	2.3
12	1.4	0.6	0.9	13	0.2	0.9	1.6	0.5	0.8	3.2	1.0	1.5
13	1.7	0.6	0.8	13	1.0	2.2	4.0	0.4	0.6	3.9	0.8	1.2
14	1.8	0.6	0.8	3.3	0.5	0.8	2.3	0.3	0.5	2.7	0.4	0.8
15	1.5	0.6	0.9	4.2	0.5	0.7	1.7	0.2	0.4	2.2	0.2	0.4
16	4.1	0.8	1.1	5.2	0.6	1.5	1.8	0.1	0.3	0.7	0.1	0.2
17	2.0	0.8	1.0	45	2.8	13	3.2	0.2	0.4	0.8	0.0	0.1
18	7.3	0.7	1.5	18	5.3	8.1	3.8	0.3	1.0	0.6	0.0	0.1
19	123	6.3	24	6.8	2.8	4.5	3.7	0.6	1.0	1.1	0.0	0.2
20	9.3	2.9	4.1	3.5	1.5	2.4	4.1	0.4	0.9	0.6	0.1	0.3
21	5.0	1.7	2.5	3.8	1.1	1.5	1.5	0.3	0.5	1.4	0.0	0.1
22	2.6	1.3	1.7	1.9	0.8	1.1	4.5	0.2	0.4	5.1	0.0	0.1
23	2.3	1.1	1.5	5.2	0.6	0.8	11	0.3	1.1	0.8	0.0	0.1
24	2.1	1.0	1.3	1.4	0.6	0.7	10	1.3	3.0	1.1	0.0	0.1
25	3.6	0.9	1.1	2.4	0.4	0.6	5.7	0.7	1.2	0.9	0.0	0.1
26	1.5	0.8	1.0	2.5	0.3	0.5	4.4	0.4	0.8	1.3	0.0	0.2
27	9.1	0.8	1.4	1.7	0.3	0.5	2.1	0.3	0.5	1.7	0.0	0.3
28	1.9	1.0	1.3	0.9	0.2	0.4	8.9	0.3	0.5	2.0	0.0	0.1
29	9.0	0.9	1.1	1.5	0.3	0.5	2.5	0.2	0.5	3.3	0.0	0.1
30	1.3	0.8	1.0	1.0	0.3	0.4	7.0	0.1	0.4	0.9	0.0	0.1
31	1.5	0.8	1.0	---	---	---	6.1	0.1	0.3	5.0	0.1	0.5
Max	123	6.3	24	45	5.3	13	86	16	38	6.9	1.3	2.3
Min	1.3	0.6	0.8	0.7	0.1	0.3	1.5	0.1	0.3	0.6	0.0	0.1

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		February			March			April			May	
1	10	0.2	0.4	5.1	1.9	2.9	1.4	0.4	0.5	3.0	1.0	1.5
2	1.7	0.2	0.5	3.3	0.7	1.1	1.1	0.3	0.5	7.2	0.9	1.2
3	7.4	0.2	0.3	4.0	0.5	0.8	1.2	0.3	0.6	5.9	1.2	1.7
4	1.3	0.1	0.2	1.4	0.5	0.7	3.5	0.4	0.7	4.2	1.4	1.9
5	1.1	0.1	0.5	2.0	0.3	0.5	1.5	0.5	0.7	5.9	1.8	2.9
6	2.9	0.1	0.3	3.1	0.2	0.5	2.6	0.6	1.2	7.2	3.0	4.4
7	4.2	0.2	1.4	1.5	0.2	0.5	2.8	0.7	1.0	5.9	2.3	3.4
8	2.4	0.5	0.7	3.5	0.6	0.9	3.3	0.6	0.9	4.8	1.7	2.3
9	0.9	0.3	0.6	2.0	0.4	0.7	3.3	0.6	0.9	3.0	1.4	1.9
10	1.8	0.3	0.6	3.7	0.4	0.8	1.5	0.6	0.9	6.9	1.3	1.7
11	1.4	0.3	0.6	7.2	1.6	2.4	1.7	0.5	0.7	3.2	1.5	1.8
12	2.8	0.2	0.5	3.7	0.8	1.2	2.9	0.6	1.0	3.1	1.1	1.5
13	1.7	0.4	0.7	4.9	1.2	2.3	5.7	1.5	2.2	3.3	1.1	1.5
14	5.5	0.4	0.6	8.0	2.2	3.4	4.1	1.8	2.7	6.7	1.2	1.7
15	9.2	0.2	0.5	2.7	1.3	1.6	2.9	1.1	1.6	23	3.4	4.9
16	1.2	0.2	0.4	3.5	0.8	1.2	1.9	0.9	1.1	42	10	17
17	2.3	0.1	0.3	1.9	0.8	1.2	2.1	0.7	0.9	46	16	26
18	1.3	0.1	0.3	7.8	1.3	3.3	1.9	0.6	1.0	79	24	37
19	1.9	0.1	0.5	5.8	1.4	2.2	1.5	0.6	0.9	35	12	16
20	3.2	0.3	0.6	4.5	1.2	1.7	3.0	0.6	0.9	20	10	13
21	2.0	0.3	0.5	2.9	0.7	1.1	2.2	0.7	0.9	13	6.8	9.5
22	1.2	0.3	0.5	2.3	0.6	0.7	6.7	0.7	1.1	11	4.5	6.4
23	1.9	0.2	0.5	2.8	0.6	1.0	3.8	0.7	1.3	9.0	3.2	4.2
24	2.0	0.3	0.7	13	0.7	1.1	2.2	0.7	1.0	6.6	2.5	3.1
25	6.1	0.5	1.0	8.9	1.2	1.6	1.2	0.5	0.7	4.3	2.0	2.5
26	2.9	0.5	0.8	8.1	0.9	1.6	2.0	0.5	0.7	8.2	1.9	2.4
27	2.3	0.3	0.7	2.9	0.7	1.0	2.3	0.6	1.0	6.3	1.8	2.2
28	1.4	0.4	0.6	1.4	0.5	0.7	4.2	1.2	1.7	7.5	2.4	3.2
29	5.8	0.5	0.9	1.8	0.4	0.7	5.6	2.9	3.7	6.3	2.7	3.9
30	---	---	---	1.4	0.4	0.7	4.4	1.4	2.2	12	2.0	2.7
31	---	---	---	2.6	0.4	0.7	---	---	---	6.0	2.1	2.9
Max	10	0.5	1.4	13	2.2	3.4	6.7	2.9	3.7	79	24	37
Min	0.9	0.1	0.2	1.4	0.2	0.5	1.1	0.3	0.5	3.0	0.9	1.2

14178000 NORTH SANTIAM RIVER BELOW BOULDER CREEK, NEAR DETROIT, OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
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	6.0	2.1	2.8	7.3	3.3	5.5	5.7	1.3	1.6	2.2	1.1	1.4
2	6.7	1.8	2.5	5.7	3.1	3.5	3.3	1.6	2.2	1.8	0.9	1.1
3	8.0	2.0	3.3	8.2	3.5	5.3	5.2	1.3	1.7	2.3	1.1	1.5
4	12	2.7	4.2	6.6	3.2	4.0	2.8	1.2	1.5	2.3	1.1	1.6
5	9.0	2.0	2.5	3.9	2.6	3.2	2.8	1.1	1.7	2.9	1.2	1.8
6	5.6	1.9	2.3	4.4	2.4	3.1	4.6	1.7	2.5	2.8	1.4	2.1
7	3.5	1.6	2.0	3.2	1.9	2.4	12	2.1	3.3	3.0	1.5	2.1
8	4.0	1.5	1.9	2.9	1.7	2.1	4.6	1.7	2.6	3.5	1.5	2.1
9	5.9	1.3	1.6	3.2	1.7	2.2	2.7	1.5	2.0	2.8	1.3	1.7
10	3.7	1.3	1.8	3.4	1.8	2.3	1.9	1.3	1.6	2.4	1.2	1.6
11	4.3	1.1	1.4	9.5	1.6	2.0	4.8	1.2	1.5	2.5	1.0	1.5
12	6.3	1.2	1.4	2.8	1.5	1.8	3.8	1.5	2.0	2.3	1.1	1.4
13	3.6	1.1	1.5	3.2	1.5	1.9	4.4	1.4	2.1	6.3	1.0	1.7
14	2.4	1.2	1.6	2.8	1.8	2.2	4.5	1.6	2.2	4.1	1.1	1.5
15	5.7	1.1	1.6	2.8	1.5	1.8	6.0	2.0	2.7	4.1	1.3	1.7
16	6.5	1.2	1.6	3.1	1.8	2.0	8.5	2.5	4.2	3.3	1.4	1.9
17	4.1	1.2	1.7	2.8	1.5	1.8	8.9	3.5	5.8	5.0	1.6	2.5
18	3.3	1.2	1.5	2.3	1.4	1.6	13	6.5	8.4	4.6	1.5	2.1
19	5.6	1.1	1.4	2.6	1.3	1.6	9.4	3.6	6.2	3.3	1.3	1.8
20	4.2	1.1	1.4	3.4	1.2	1.6	438	3.9	22	3.0	1.4	1.7
21	4.7	1.1	1.5	9.6	1.3	1.7	321	14	42	2.0	1.1	1.5
22	2.5	1.2	1.5	2.4	1.6	2.0	14	4.5	6.5	2.9	1.2	1.5
23	7.5	1.1	1.5	4.4	1.4	1.7	5.2	2.7	3.8	1.7	0.7	1.1
24	3.3	1.1	1.4	3.4	1.2	1.5	5.3	2.5	3.5	1.5	0.7	1.0
25	2.9	1.1	1.5	5.9	1.2	1.5	5.1	3.0	4.5	2.2	0.9	1.5
26	2.1	1.1	1.4	3.1	1.2	1.6	5.0	2.0	2.6	3.8	0.8	1.4
27	3.9	1.2	1.5	3.6	1.2	1.5	3.0	1.8	2.3	2.4	0.7	1.1
28	6.0	2.5	3.2	3.9	1.2	1.7	4.1	1.9	2.4	1.9	0.7	1.1
29	20	6.0	8.3	2.2	1.2	1.5	4.4	2.2	2.6	2.4	0.8	1.3
30	9.8	4.2	5.9	7.9	1.2	1.4	7.5	2.0	2.8	4.2	1.6	2.3
31	---	---	---	3.5	1.2	1.5	2.6	1.3	1.8	---	---	---
Max	20	6.0	8.3	9.6	3.5	5.5	438	14	42	6.3	1.6	2.5
Min	2.1	1.1	1.4	2.2	1.2	1.4	1.9	1.1	1.5	1.5	0.7	1.0

	Max	Min	Median
Year Maximum	438	24	42
Year Minimum	0.6	0.0	0.1