



Water-Data Report 2010

14181900 LITTLE N SANTIAM RIVER ABV EVANS CR, AT ELKHORN,OR

Willamette Basin
North Santiam Subbasin

LOCATION.--Lat 44°50'09", long 122°21'13" referenced to North American Datum of 1927, Marion County, OR, Hydrologic Unit 17090005.

DRAINAGE AREA.--53.10 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 2007 to November 2009 (discontinued).

pH: October 2007 to November 2009 (discontinued).

WATER TEMPERATURE: October 2007 to November 2009 (discontinued).

DISSOLVED OXYGEN: October 2007 to November 2009 (discontinued).

TURBIDITY: October 2007 to November 2009 (discontinued).

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.

pH: Records excellent except those for Oct. 25 to Nov. 3, which are good.

WATER TEMPERATURE: Records excellent.

DISSOLVED OXYGEN: Records excellent except those for Oct. 1, which are good and those for Oct. 2-5, which are fair.

TURBIDITY: Records excellent. Data collected using a YSI 6026 turbidity sensor. Manufacturers 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, 51 microsiemens, Sept. 2, 2009; minimum, 13 microsiemens, Dec. 28, 2008, Jan. 1, 2, 7, 8, 2009.

pH: Maximum, 8.2 units Aug. 29, 2009; minimum, 6.8 units Dec. 27, 28, 2008, Jan. 1, 2, 7, 8, 2009.

WATER TEMPERATURE: Maximum, 23.9°C July 29, Aug. 1, 2, 2009; minimum, 0.0°C Dec. 15, 16, 2008.

DISSOLVED OXYGEN: Maximum, 14.0 mg/L Dec. 16, 19, 2008; minimum, 7.7 mg/L July 29, 30, 2009.

TURBIDITY: Maximum, 233 FNU Nov. 12, 2008; minimum, <1 FNU on many days each year.

EXTREMES FOR OCTOBER TO NOVEMBER 2009.--

SPECIFIC CONDUCTANCE: Maximum, 47 microsiemens Oct. 1, 6-9, 12; minimum, 20 microsiemens Oct. 31.

pH: Maximum, 7.8 units several days in October; minimum, 7.2 units Oct. 29-31.

WATER TEMPERATURE: Maximum, 11.0°C Oct. 2; minimum, 5.8°C Oct. 12.

DISSOLVED OXYGEN: Maximum, 12.2 mg/L Nov. 2; minimum, 10.4 mg/L Oct. 17.

TURBIDITY: Maximum, 6.6 FNU Oct. 26; minimum, 0.0 FNU on many days during year.

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

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

14181900 LITTLE N SANTIAM RIVER ABV EVANS CR, AT ELKHORN,OR—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	7.8	7.4	7.5	7.3	7.3	7.3	---	---	---	---	---	---
2	7.8	7.4	7.5	7.4	7.3	7.3	---	---	---	---	---	---
3	7.7	7.4	7.5	7.4	7.3	7.4	---	---	---	---	---	---
4	7.8	7.4	7.5	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	7.7	7.3	7.4	---	---	---	---	---	---	---	---	---
7	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
8	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
9	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
10	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
11	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
12	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
13	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
14	7.7	7.3	7.4	---	---	---	---	---	---	---	---	---
15	7.7	7.3	7.4	---	---	---	---	---	---	---	---	---
16	7.8	7.3	7.4	---	---	---	---	---	---	---	---	---
17	7.6	7.3	7.4	---	---	---	---	---	---	---	---	---
18	7.6	7.4	7.5	---	---	---	---	---	---	---	---	---
19	7.8	7.4	7.5	---	---	---	---	---	---	---	---	---
20	7.7	7.4	7.5	---	---	---	---	---	---	---	---	---
21	7.7	7.4	7.5	---	---	---	---	---	---	---	---	---
22	7.7	7.4	7.5	---	---	---	---	---	---	---	---	---
23	7.5	7.4	7.4	---	---	---	---	---	---	---	---	---
24	7.5	7.4	7.4	---	---	---	---	---	---	---	---	---
25	7.6	7.4	7.4	---	---	---	---	---	---	---	---	---
26	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
27	7.3	7.3	7.3	---	---	---	---	---	---	---	---	---
28	7.4	7.3	7.3	---	---	---	---	---	---	---	---	---
29	7.4	7.2	7.4	---	---	---	---	---	---	---	---	---
30	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
31	7.3	7.2	7.3	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

14181900 LITTLE N SANTIAM RIVER ABV EVANS CR, AT ELKHORN,OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	10.7	9.8	10.2	8.4	7.1	7.8	---	---	---	---	---	---
2	11.0	9.8	10.3	7.1	6.3	6.7	---	---	---	---	---	---
3	10.0	8.8	9.6	6.9	6.2	6.6	---	---	---	---	---	---
4	9.6	8.5	8.9	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	8.5	7.1	7.8	---	---	---	---	---	---	---	---	---
7	8.5	6.9	7.6	---	---	---	---	---	---	---	---	---
8	8.5	7.1	7.8	---	---	---	---	---	---	---	---	---
9	8.5	7.0	7.8	---	---	---	---	---	---	---	---	---
10	8.6	7.2	7.8	---	---	---	---	---	---	---	---	---
11	7.5	6.4	7.0	---	---	---	---	---	---	---	---	---
12	7.5	5.8	6.7	---	---	---	---	---	---	---	---	---
13	7.9	6.0	7.0	---	---	---	---	---	---	---	---	---
14	9.0	7.6	8.2	---	---	---	---	---	---	---	---	---
15	9.5	8.5	8.9	---	---	---	---	---	---	---	---	---
16	10.6	9.3	9.9	---	---	---	---	---	---	---	---	---
17	10.7	9.9	10.3	---	---	---	---	---	---	---	---	---
18	10.7	10.1	10.3	---	---	---	---	---	---	---	---	---
19	10.8	9.8	10.2	---	---	---	---	---	---	---	---	---
20	9.8	9.0	9.5	---	---	---	---	---	---	---	---	---
21	9.6	9.0	9.2	---	---	---	---	---	---	---	---	---
22	9.4	8.8	9.2	---	---	---	---	---	---	---	---	---
23	9.7	9.2	9.4	---	---	---	---	---	---	---	---	---
24	9.7	8.2	8.9	---	---	---	---	---	---	---	---	---
25	8.2	7.4	7.9	---	---	---	---	---	---	---	---	---
26	8.7	8.0	8.3	---	---	---	---	---	---	---	---	---
27	8.0	6.8	7.3	---	---	---	---	---	---	---	---	---
28	7.1	6.7	6.9	---	---	---	---	---	---	---	---	---
29	7.7	6.6	7.0	---	---	---	---	---	---	---	---	---
30	8.4	7.7	8.1	---	---	---	---	---	---	---	---	---
31	8.8	8.4	8.6	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

14181900 LITTLE N SANTIAM RIVER ABV EVANS CR, AT ELKHORN,OR—Continued

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

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	11.5	10.9	11.1	11.9	11.7	11.8	---	---	---	---	---	---
2	11.4	10.8	11.0	12.2	11.9	12.0	---	---	---	---	---	---
3	11.5	10.8	11.1	---	---	---	---	---	---	---	---	---
4	11.7	11.0	11.3	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	11.8	11.2	11.5	---	---	---	---	---	---	---	---	---
7	11.9	11.3	11.5	---	---	---	---	---	---	---	---	---
8	11.9	11.2	11.5	---	---	---	---	---	---	---	---	---
9	11.9	11.2	11.5	---	---	---	---	---	---	---	---	---
10	11.9	11.2	11.5	---	---	---	---	---	---	---	---	---
11	12.0	11.2	11.6	---	---	---	---	---	---	---	---	---
12	12.1	11.3	11.7	---	---	---	---	---	---	---	---	---
13	11.8	11.0	11.4	---	---	---	---	---	---	---	---	---
14	11.6	10.9	11.2	---	---	---	---	---	---	---	---	---
15	11.5	10.8	11.2	---	---	---	---	---	---	---	---	---
16	11.3	10.6	10.9	---	---	---	---	---	---	---	---	---
17	10.9	10.4	10.6	---	---	---	---	---	---	---	---	---
18	11.0	10.5	10.8	---	---	---	---	---	---	---	---	---
19	11.1	10.5	10.7	---	---	---	---	---	---	---	---	---
20	11.4	10.7	11.0	---	---	---	---	---	---	---	---	---
21	11.3	10.8	11.0	---	---	---	---	---	---	---	---	---
22	11.4	10.9	11.1	---	---	---	---	---	---	---	---	---
23	11.1	10.8	11.0	---	---	---	---	---	---	---	---	---
24	11.4	11.0	11.3	---	---	---	---	---	---	---	---	---
25	11.9	11.3	11.5	---	---	---	---	---	---	---	---	---
26	11.7	11.2	11.4	---	---	---	---	---	---	---	---	---
27	12.0	11.7	11.9	---	---	---	---	---	---	---	---	---
28	12.1	11.8	11.9	---	---	---	---	---	---	---	---	---
29	12.0	11.8	11.9	---	---	---	---	---	---	---	---	---
30	12.1	11.5	11.8	---	---	---	---	---	---	---	---	---
31	11.9	11.5	11.7	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

14181900 LITTLE N SANTIAM RIVER ABV EVANS CR, AT ELKHORN,OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	2.0	0.1	0.2	1.6	0.1	0.2	---	---	---	---	---	---
2	1.0	0.1	0.1	0.5	0.1	0.1	---	---	---	---	---	---
3	0.4	0.1	0.1	0.5	0.0	0.1	---	---	---	---	---	---
4	0.8	0.1	0.2	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	0.3	0.0	0.1	---	---	---	---	---	---	---	---	---
7	0.5	0.0	0.1	---	---	---	---	---	---	---	---	---
8	0.4	0.0	0.1	---	---	---	---	---	---	---	---	---
9	0.4	0.0	0.0	---	---	---	---	---	---	---	---	---
10	0.5	0.0	0.1	---	---	---	---	---	---	---	---	---
11	0.7	0.0	0.1	---	---	---	---	---	---	---	---	---
12	3.4	0.0	0.1	---	---	---	---	---	---	---	---	---
13	2.1	0.0	0.1	---	---	---	---	---	---	---	---	---
14	1.5	0.0	0.1	---	---	---	---	---	---	---	---	---
15	1.0	0.1	0.1	---	---	---	---	---	---	---	---	---
16	0.5	0.0	0.1	---	---	---	---	---	---	---	---	---
17	4.6	0.0	0.1	---	---	---	---	---	---	---	---	---
18	0.9	0.1	0.2	---	---	---	---	---	---	---	---	---
19	0.5	0.0	0.1	---	---	---	---	---	---	---	---	---
20	0.3	0.0	0.1	---	---	---	---	---	---	---	---	---
21	0.2	0.0	0.1	---	---	---	---	---	---	---	---	---
22	0.4	0.0	0.1	---	---	---	---	---	---	---	---	---
23	1.7	0.0	0.2	---	---	---	---	---	---	---	---	---
24	0.9	0.1	0.2	---	---	---	---	---	---	---	---	---
25	0.6	0.1	0.1	---	---	---	---	---	---	---	---	---
26	6.6	0.0	0.2	---	---	---	---	---	---	---	---	---
27	1.8	0.2	0.4	---	---	---	---	---	---	---	---	---
28	1.3	0.2	0.2	---	---	---	---	---	---	---	---	---
29	2.9	0.1	0.2	---	---	---	---	---	---	---	---	---
30	3.2	0.2	0.6	---	---	---	---	---	---	---	---	---
31	2.6	0.1	0.6	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---