

**01021050 ST. CROIX RIVER AT MILLTOWN, ME**

Maine Coastal Basin  
St. Croix Subbasin

LOCATION.--Lat 45°10'12", long 67°17'48" referenced to North American Datum of 1983, Washington County, ME, Hydrologic Unit 01050001, on right bank 30 ft downstream from international highway bridge at Milltown.

DRAINAGE AREA.--1,455 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1969 to 1994, June 1996 to current year.

CHEMICAL ANALYSIS: Water years 1969 to August 1994 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1972 to September 1994. Seasonal records (June to September) water years 1996 to current year.

pH: July 1972 to September 1994. Seasonal records (June to September) water years 1996 to current year.

WATER TEMPERATURE: September 1969 to September 1994. Seasonal records (June to September) water years 1996 to current year.

DISSOLVED OXYGEN: September 1969 to September 1994. Seasonal records (June to September) water years 1996 to current year.

REVISED RECORDS.--WDR ME-96-1: Drainage area.

INSTRUMENTATION.--In-situ monitor located 70 ft streamward from gage, and 1.5 ft above river bed.

REMARKS.--Monitor not operated during period October to May. Records good, except for the period July 31 to Aug. 15, which is fair for dissolved oxygen. Interruptions in the record are due to equipment malfunction and censored erroneous data.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 375 microsiemens/cm, Mar. 6, 1989; minimum, 23 microsiemens/cm, May 2-4, 6, 1979.

pH: Maximum, 11.6 standard units, Sept. 28, 1974; minimum, 5.3 standard units, Oct. 18, 1973.

WATER TEMPERATURE: Maximum, 28.4°C, July 4, 2002; minimum, 0.0°C, on many days during winter periods.

DISSOLVED OXYGEN: Maximum, 14.4 mg/L, Nov. 16, 1976; minimum, 0.5 mg/L, Aug. 19, 1975, Aug. 28, 1980.

EXTREMES FOR CURRENT PERIOD (June 1, 2007 to Sept. 30, 2007).--

SPECIFIC CONDUCTANCE: Maximum, 120 microsiemens/cm, Sept. 30; minimum, 57 microsiemens/cm, Aug. 2.

pH: Maximum, 7.2 standard units, on several days; minimum, 6.7 standard units, Aug. 2.

WATER TEMPERATURE: Maximum, 27.3°C, Aug. 1; minimum, 16.0°C, June 5.

DISSOLVED OXYGEN: Maximum, 10.1 mg/L, Sept. 19; minimum, 6.8 mg/L, on several days.

## 01021050 01021050 ST. CROIX RIVER AT MILLTOWN, ME—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	66	60	62	82	78	80	94	63	79	82	76	79
2	74	65	71	84	76	81	68	57	61	77	72	75
3	73	65	69	88	82	85	80	68	76	76	71	73
4	69	65	67	88	81	84	86	80	83	76	71	74
5	69	63	66	83	79	81	85	78	82	76	72	74
6	74	67	71	86	79	84	84	77	81	77	72	75
7	72	69	71	88	83	85	86	80	84	80	75	77
8	74	69	71	98	80	87	88	82	85	84	79	82
9	73	69	71	84	77	81	90	84	89	90	79	86
10	74	71	72	90	81	86	84	78	80	89	83	86
11	72	70	71	83	62	68	86	81	84	86	84	85
12	73	70	71	90	63	80	88	82	85	89	83	85
13	80	71	75	102	90	97	87	80	85	94	87	90
14	85	79	82	103	98	101	95	72	85	93	87	90
15	79	69	75	110	101	105	87	68	76	92	87	89
16	73	68	71	107	99	103	92	87	91	87	83	86
17	76	68	73	102	95	98	94	86	90	84	79	81
18	76	68	73	98	90	93	102	94	98	83	77	80
19	80	72	76	100	98	99	102	97	98	81	67	75
20	78	71	76	98	90	94	103	99	101	83	67	77
21	82	75	80	97	91	94	103	99	101	87	81	84
22	81	74	79	92	81	88	---	---	---	85	80	82
23	86	73	80	86	79	83	---	---	---	91	85	87
24	75	72	73	85	82	84	---	---	---	92	83	88
25	76	72	74	83	66	74	---	---	---	94	89	92
26	81	73	78	78	67	74	---	---	---	104	92	97
27	85	79	82	84	77	81	---	---	---	112	101	106
28	84	80	82	87	81	85	72	67	70	116	104	109
29	89	79	83	91	83	87	76	69	72	114	103	108
30	89	82	86	91	82	86	74	69	71	120	112	116
31	---	---	---	92	82	88	78	69	74	---	---	---
<b>Month</b>	89	60	74	110	62	87	---	---	---	120	67	86

## 01021050 01021050 ST. CROIX RIVER AT MILLTOWN, ME—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	6.8	6.8	6.8	7.0	7.0	7.0	7.0	6.8	6.9	7.1	6.9	7.0
2	6.9	6.8	6.8	7.0	7.0	7.0	6.9	6.7	6.8	7.1	7.0	7.1
3	6.9	6.8	6.8	7.0	6.9	7.0	7.0	6.9	6.9	7.1	7.0	7.1
4	6.9	6.8	6.8	7.0	7.0	7.0	7.0	6.8	6.9	7.1	7.1	7.1
5	6.8	6.8	6.8	7.0	6.9	6.9	7.0	6.8	6.9	7.2	7.1	7.1
6	6.9	6.8	6.8	6.9	6.9	6.9	7.0	6.9	6.9	7.2	7.1	7.1
7	6.9	6.9	6.9	7.0	6.9	7.0	6.9	6.9	6.9	7.2	7.1	7.2
8	6.9	6.9	6.9	7.0	6.9	7.0	7.0	6.8	6.9	7.2	7.0	7.2
9	6.9	6.8	6.9	7.0	6.9	7.0	7.0	6.8	6.9	7.2	7.0	7.1
10	6.9	6.9	6.9	7.1	6.9	7.0	7.0	6.9	7.0	7.2	6.9	7.1
11	6.9	6.9	6.9	7.1	6.8	6.9	7.0	6.9	6.9	7.0	6.9	7.0
12	6.9	6.9	6.9	7.0	6.8	6.9	7.0	6.9	7.0	7.0	6.9	7.0
13	6.9	6.9	6.9	7.1	6.9	7.0	7.0	6.9	7.0	7.1	7.0	7.1
14	7.0	6.9	7.0	7.1	7.0	7.0	7.0	6.9	6.9	7.1	7.0	7.1
15	7.0	6.9	6.9	7.1	7.0	7.0	6.9	6.8	6.9	7.1	7.0	7.0
16	7.0	6.9	6.9	7.1	7.0	7.1	6.9	6.8	6.9	7.1	7.0	7.0
17	7.0	6.9	6.9	7.1	7.0	7.0	7.0	6.9	7.0	7.1	7.0	7.1
18	7.0	6.9	7.0	7.1	6.9	---	7.0	6.9	7.0	7.1	7.0	7.1
19	7.0	6.9	7.0	7.0	6.8	6.9	7.1	6.9	7.0	7.1	7.0	7.0
20	7.0	6.9	7.0	6.9	6.8	6.9	7.2	7.0	7.0	7.1	7.0	7.0
21	7.0	6.9	6.9	6.9	6.8	6.8	7.2	7.0	7.0	7.1	7.0	7.0
22	7.0	6.9	6.9	6.9	6.9	6.9	---	---	---	7.1	7.0	7.0
23	6.9	6.9	6.9	7.0	6.9	6.9	---	---	---	7.1	7.0	7.0
24	7.0	6.9	6.9	7.0	6.9	6.9	---	---	---	7.1	7.0	7.1
25	7.0	6.9	6.9	7.0	6.8	6.8	---	---	---	7.2	7.0	7.1
26	7.0	6.9	6.9	7.0	6.9	6.9	---	---	---	7.2	7.0	7.0
27	7.0	6.9	6.9	7.0	6.9	7.0	---	---	---	7.2	7.0	7.0
28	7.0	6.8	6.9	7.0	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.0
29	7.1	6.8	7.0	7.0	6.9	7.0	7.1	7.0	7.0	7.2	7.0	7.0
30	7.1	7.0	7.0	7.0	6.9	6.9	7.1	7.0	7.0	7.2	7.0	7.1
31	---	---	---	7.0	6.9	7.0	7.1	6.9	7.0	---	---	---
<b>Max</b>	7.1	7.0	7.0	7.1	7.0	---	---	---	---	7.2	7.1	7.2
<b>Min</b>	6.8	6.8	6.8	6.9	6.8	---	---	---	---	7.0	6.9	7.0

## 01021050 01021050 ST. CROIX RIVER AT MILLTOWN, ME—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
<b>1</b>	18.6	17.2	17.7	22.0	21.4	21.7	27.3	26.1	26.9	22.4	21.7	22.1
<b>2</b>	18.7	17.5	18.0	22.1	21.0	21.4	27.2	25.8	26.4	22.1	21.3	21.6
<b>3</b>	18.7	17.4	18.1	22.6	20.8	21.6	27.1	26.3	26.8	22.0	21.4	21.6
<b>4</b>	18.6	16.2	17.2	22.9	22.0	22.4	27.0	25.9	26.4	22.0	20.6	21.5
<b>5</b>	18.5	16.0	17.0	22.5	19.9	21.4	26.0	25.4	25.8	20.6	19.7	20.0
<b>6</b>	18.6	17.4	17.9	21.3	19.7	20.4	25.6	24.4	25.1	19.9	19.5	19.6
<b>7</b>	18.4	16.5	17.4	22.3	21.2	21.7	25.1	24.1	24.4	21.1	19.6	20.1
<b>8</b>	19.8	18.0	18.6	21.9	20.9	21.5	25.3	22.7	24.5	22.0	21.1	21.5
<b>9</b>	20.1	18.9	19.4	21.6	20.7	21.0	22.7	21.4	22.1	22.0	21.0	21.6
<b>10</b>	20.7	19.4	19.9	23.0	20.4	21.4	23.1	22.4	22.7	21.0	19.5	20.4
<b>11</b>	21.1	20.7	20.9	23.1	20.7	21.6	23.9	22.9	23.4	19.5	19.2	19.3
<b>12</b>	21.3	20.5	21.0	22.1	20.6	21.2	24.4	23.8	24.1	19.9	19.1	19.4
<b>13</b>	21.1	18.9	20.1	23.6	21.8	22.7	24.4	23.1	24.0	19.2	18.4	18.8
<b>14</b>	19.1	18.5	18.8	24.0	22.7	23.3	23.1	22.4	22.7	19.2	18.5	18.8
<b>15</b>	21.2	18.8	19.7	23.7	22.5	22.9	22.4	21.3	22.0	19.0	17.4	18.5
<b>16</b>	21.4	20.5	21.0	24.1	22.4	23.2	22.5	20.9	21.6	17.8	16.7	17.3
<b>17</b>	21.6	20.8	21.2	24.7	23.5	24.0	23.6	22.5	22.9	17.9	17.6	17.7
<b>18</b>	21.5	20.7	21.2	24.1	22.6	23.6	22.9	21.1	22.5	18.0	17.6	17.8
<b>19</b>	22.2	21.2	21.7	22.6	21.8	22.0	21.1	19.8	20.3	18.0	17.4	17.7
<b>20</b>	22.6	20.3	21.7	21.8	21.1	21.4	21.1	19.2	20.2	18.5	17.7	18.0
<b>21</b>	21.4	20.1	20.7	22.6	21.0	21.7	22.1	20.2	21.1	18.9	18.4	18.5
<b>22</b>	21.7	20.9	21.3	23.6	22.6	23.1	---	---	---	18.6	17.3	18.0
<b>23</b>	20.9	20.1	20.3	24.6	23.6	24.0	---	---	---	18.3	17.2	17.7
<b>24</b>	20.8	20.0	20.3	24.3	23.8	24.0	---	---	---	18.1	16.5	17.3
<b>25</b>	21.5	20.5	20.9	25.2	23.4	24.1	---	---	---	17.8	16.5	17.1
<b>26</b>	23.6	21.5	22.6	26.2	25.2	25.8	---	---	---	19.9	17.6	18.8
<b>27</b>	25.1	23.2	24.1	26.8	26.2	26.5	---	---	---	20.4	19.1	19.8
<b>28</b>	24.8	23.6	24.1	26.9	26.0	26.5	23.2	22.2	22.7	19.2	18.5	18.8
<b>29</b>	23.6	22.6	23.1	26.3	25.8	25.9	23.2	22.3	22.7	18.6	17.2	18.0
<b>30</b>	23.1	21.8	22.6	26.4	25.7	26.1	23.3	22.4	22.8	17.3	16.3	16.8
<b>31</b>	---	---	---	27.1	25.7	26.3	23.3	22.1	22.8	---	---	---
<b>Month</b>	25.1	16.0	20.3	27.1	19.7	23.0	---	---	---	22.4	16.3	19.1

## 01021050 01021050 ST. CROIX RIVER AT MILLTOWN, ME—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	9.0	8.6	8.8	8.0	7.8	7.8	7.7	6.8	7.3	8.5	7.8	8.1
2	8.8	8.6	8.7	8.1	7.9	8.0	7.5	6.8	7.1	8.7	8.3	8.5
3	8.9	8.5	8.7	8.0	7.9	7.9	7.6	7.1	7.3	8.8	8.5	8.6
4	9.0	8.7	8.8	8.0	7.8	7.9	7.5	6.9	7.2	8.9	8.5	8.7
5	9.0	8.8	8.9	8.0	7.5	7.8	7.9	7.1	7.4	9.2	8.8	9.0
6	8.9	8.5	8.7	7.9	7.6	7.7	7.9	7.3	7.6	9.3	9.1	9.2
7	9.3	8.9	9.1	8.1	7.7	7.9	7.8	7.4	7.6	9.5	9.0	9.3
8	9.2	8.8	9.0	8.2	7.8	7.9	7.9	7.1	7.4	9.3	8.7	9.1
9	9.1	8.7	8.9	8.2	7.9	8.0	8.4	7.3	7.9	9.2	8.5	8.9
10	9.0	8.6	8.8	8.3	8.0	8.1	8.4	7.9	8.2	9.2	8.2	8.7
11	8.9	8.4	8.5	8.3	7.5	7.7	8.5	8.1	8.3	8.6	8.3	8.5
12	8.6	8.3	8.4	8.0	7.6	7.8	8.5	8.0	8.2	9.1	8.4	8.8
13	8.5	8.2	8.4	8.1	7.6	7.8	8.4	7.8	8.1	9.4	9.1	9.2
14	8.8	8.4	8.7	8.0	7.6	7.8	8.4	7.9	8.2	9.5	9.2	9.4
15	8.9	8.7	8.8	8.0	7.6	7.8	8.4	7.7	8.1	9.6	8.8	9.2
16	8.9	8.4	8.6	8.0	7.6	7.8	7.9	7.6	7.8	9.6	8.9	9.4
17	8.7	8.3	8.5	7.9	7.6	7.7	7.7	6.8	7.3	9.9	9.6	9.7
18	8.6	8.3	8.5	7.9	6.9	7.4	---	---	---	10.0	9.6	9.8
19	8.6	8.3	8.4	7.3	6.8	7.0	---	---	---	10.1	9.7	9.8
20	8.6	7.9	8.2	7.4	6.8	7.1	---	---	---	9.9	9.5	9.8
21	8.3	8.0	8.2	7.4	7.1	7.3	---	---	---	9.7	9.3	9.6
22	8.3	7.9	8.1	7.5	7.4	7.4	---	---	---	9.7	9.1	9.4
23	8.4	8.0	8.2	7.6	7.3	7.5	---	---	---	9.6	9.2	9.4
24	8.5	8.3	8.4	7.8	7.4	7.5	---	---	---	9.8	9.5	9.6
25	8.5	8.3	8.4	7.8	7.3	7.5	---	---	---	9.9	9.1	9.6
26	8.4	7.6	8.1	7.7	7.3	7.5	---	---	---	9.7	8.8	9.3
27	7.7	7.2	7.6	7.6	7.2	7.4	---	---	---	9.3	8.4	8.8
28	7.6	6.8	7.2	7.6	7.2	7.4	8.8	8.0	8.4	9.3	8.4	8.9
29	7.6	7.1	7.4	7.6	7.1	7.3	8.8	8.0	8.4	9.2	8.7	8.9
30	7.8	7.5	7.7	7.6	7.0	7.2	8.7	8.2	8.3	9.6	8.9	9.1
31	---	---	---	7.7	7.2	7.4	8.6	7.6	8.0	---	---	---
Month	9.3	6.8	8.4	8.3	6.8	7.6	---	---	---	10.1	7.8	9.1