

## Water-Data Report 2011

**01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME**

 Maine Coastal Basin  
 Maine Coastal Subbasin

LOCATION.--Lat 44°19'45", long 69°03'39" referenced to North American Datum of 1983, Waldo County, ME, Hydrologic Unit 01050002, on left bank on downstream side of State Route 52 highway bridge at Lincolnville, and 1.3 mi upstream of Black Brook.

DRAINAGE AREA.--14.4 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**
**PERIOD OF RECORD.--**

DISCHARGE: June 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 135 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for flows between 6 ft<sup>3</sup>/s and 10 ft<sup>3</sup>/s, period of no gage-height record, June 25-29, which are fair, flows below 6 ft<sup>3</sup>/s, periods of ice effect, Dec. 8-12, 16-20, 25-30, Jan. 3-19, Jan. 24 to Feb. 6, and Feb. 27 to Mar. 11, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,680 ft<sup>3</sup>/s, Apr. 7, 2009, gage height, 6.45 ft, from rating curve extended above 900 ft<sup>3</sup>/s; no flow Aug. 17 to Sept. 24, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov 8	0315	*892	*5.48
Nov 17	1315	614	5.04
Dec 13	0630	766	5.29
Mar 12	0030	512	4.85
Apr 17	1030	728	5.23

Minimum discharge, 0.26 ft<sup>3</sup>/s, Aug. 15, gage height, 1.25 ft.

## 01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[*e*, estimated]

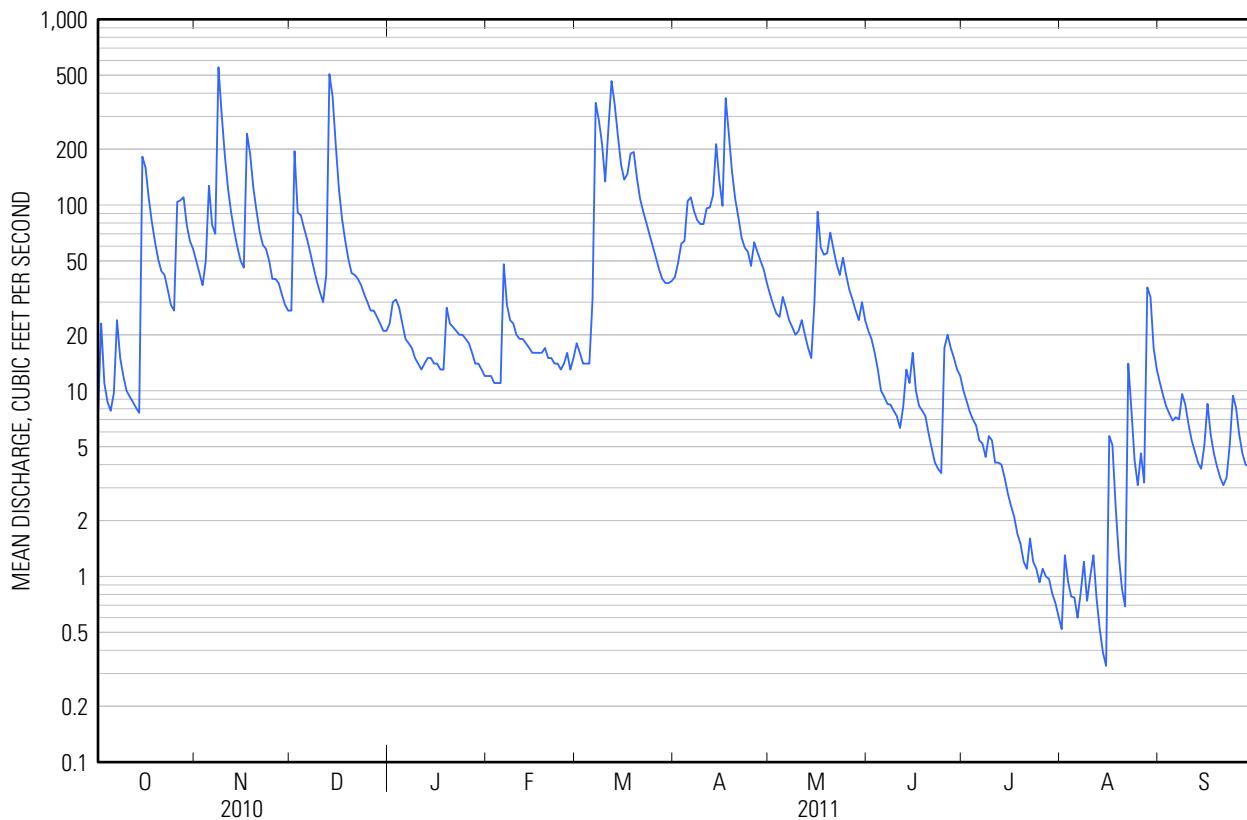
<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	7.2	50	27	23	e12	e18	41	33	21	10	0.52	11
<b>2</b>	23	43	195	30	e12	e16	49	29	19	8.8	1.3	9.4
<b>3</b>	11	37	91	e31	e11	e14	62	26	16	7.7	0.94	8.2
<b>4</b>	8.7	50	88	e28	e11	e14	64	25	13	7.0	0.78	7.5
<b>5</b>	7.8	127	75	e23	e11	e14	105	32	10	6.5	0.77	6.9
<b>6</b>	9.7	78	65	e19	e48	e31	110	28	9.3	5.4	0.60	7.2
<b>7</b>	24	70	55	e18	29	e355	93	24	8.5	5.2	0.82	7.0
<b>8</b>	15	552	e46	e17	24	e286	83	22	8.4	4.4	1.2	9.6
<b>9</b>	12	311	e39	e15	23	e214	79	20	7.8	5.7	0.74	8.4
<b>10</b>	10	186	e34	e14	20	e134	79	21	7.3	5.4	1.0	6.6
<b>11</b>	9.3	123	e30	e13	19	e258	96	24	6.3	4.1	1.3	5.4
<b>12</b>	8.7	91	e42	e14	19	465	97	20	8.2	4.1	0.76	4.7
<b>13</b>	8.1	72	507	e15	18	347	113	17	13	4.0	0.52	4.1
<b>14</b>	7.6	59	384	e15	17	236	213	15	11	3.4	0.39	3.8
<b>15</b>	182	50	211	e14	16	165	135	30	16	2.8	0.33	5.1
<b>16</b>	159	46	e122	e14	16	137	99	92	10	2.4	5.7	8.5
<b>17</b>	109	242	e84	e13	16	147	376	59	8.3	2.1	5.1	5.8
<b>18</b>	81	188	e64	e13	16	189	241	54	7.8	1.7	2.4	4.6
<b>19</b>	63	124	e51	e28	17	193	151	55	7.3	1.5	1.3	3.9
<b>20</b>	51	93	e43	23	15	140	108	71	5.9	1.2	0.86	3.4
<b>21</b>	44	72	42	22	15	108	86	58	4.9	1.1	0.69	3.1
<b>22</b>	42	61	40	21	14	92	67	48	4.1	1.6	14	3.4
<b>23</b>	35	58	37	20	14	80	59	42	3.8	1.2	7.8	5.1
<b>24</b>	29	50	33	e20	13	69	56	52	3.6	1.1	4.2	9.4
<b>25</b>	27	40	e30	e19	14	60	47	42	e17	0.93	3.1	8.1
<b>26</b>	104	40	e27	e18	16	52	63	35	e20	1.1	4.6	5.8
<b>27</b>	106	38	e27	e16	e13	45	56	31	e17	1.0	3.2	4.6
<b>28</b>	110	33	e25	e14	e15	40	50	27	e15	0.97	36	4.0
<b>29</b>	78	29	e23	e14	---	38	45	24	e13	0.81	32	3.9
<b>30</b>	64	27	e21	e13	---	38	38	30	12	0.72	17	6.3
<b>31</b>	58	---	21	e12	---	39	---	24	---	0.61	13	---
<b>Total</b>	1,504.1	3,040	2,579	569	484	4,034	2,961	1,110	324.5	104.54	162.92	184.8
<b>Mean</b>	48.5	101	83.2	18.4	17.3	130	98.7	35.8	10.8	3.37	5.26	6.16
<b>Max</b>	182	552	507	31	48	465	376	92	21	10	36	11
<b>Min</b>	7.2	27	21	12	11	14	38	15	3.6	0.61	0.33	3.1
<b>Cfsm</b>	3.37	7.04	5.78	1.27	1.20	9.04	6.85	2.49	0.75	0.23	0.36	0.43
<b>In.</b>	3.89	7.85	6.66	1.47	1.25	10.42	7.65	2.87	0.84	0.27	0.42	0.48

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	32.5	49.8	49.4	35.1	32.9	69.5	88.4	39.9	25.2	11.7	4.18	5.25
<b>Max</b>	163	101	89.4	117	84.2	130	180	127	101	63.5	16.2	28.8
(WY)	(2006)	(2011)	(2004)	(1999)	(2008)	(2011)	(2005)	(2005)	(2006)	(2009)	(2009)	(2008)
<b>Min</b>	0.07	0.37	3.21	7.84	5.07	15.5	28.4	11.4	6.54	0.91	0.01	0.07
(WY)	(2002)	(2002)	(2002)	(2002)	(2004)	(2006)	(1999)	(2001)	(2008)	(2001)	(2001)	(2001)

**01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1998 - 2011</b>	
<b>Annual total</b>	17,638.32	17,057.86		
<b>Annual mean</b>	48.3	46.7	37.0	
<b>Highest annual mean</b>			57.2	2006
<b>Lowest annual mean</b>			18.4	2001
<b>Highest daily mean</b>	722 Mar 31	552 Nov 8	934 Apr 17, 2007	
<b>Lowest daily mean</b>	0.21 Aug 21	0.33 Aug 15	0.00 Aug 17, 2001	
<b>Annual seven-day minimum</b>	0.25 Aug 18	0.72 Aug 9	0.00 Aug 17, 2001	
<b>Maximum peak flow</b>		892 Nov 8	1,680 Apr 7, 2009	
<b>Maximum peak stage</b>		5.48 Nov 8	6.45 Apr 7, 2009	
<b>Instantaneous low flow</b>		0.26 Aug 15	0.00 Aug 17, 2001	
<b>Annual runoff (cfsm)</b>	3.36	3.25	2.57	
<b>Annual runoff (inches)</b>	45.57	44.07	34.93	
<b>10 percent exceeds</b>	109	110	91	
<b>50 percent exceeds</b>	21	20	17	
<b>90 percent exceeds</b>	3.3	3.0	0.60	



**01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME—Continued****WATER-QUALITY RECORDS**

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 2010 to September 2011.

INSTRUMENTATION.--In-situ thermistor located on left bank at downstream side of bridge and about 0.5 feet above river bed.

REMARKS.--Records fair. No water temperature data, June 25-29. No minimum water temperature data, July 8.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.0°C, July 22; minimum, -0.1°C, on many days.

**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	
<b>October</b>				<b>November</b>				<b>December</b>				<b>January</b>	
<b>1</b>	19.1	17.6	18.5	7.1	6.3	6.7	3.4	1.7	2.5	0.0	0.0	0.0	
<b>2</b>	17.6	14.7	16.4	6.5	5.4	6.2	5.0	3.1	4.1	0.2	0.0	0.0	
<b>3</b>	14.7	12.7	13.6	5.5	4.6	5.1	3.1	2.3	2.7	0.4	-0.1	0.2	
<b>4</b>	13.7	12.4	12.9	6.6	4.5	5.3	3.4	3.0	3.2	0.0	-0.1	-0.1	
<b>5</b>	14.6	12.6	13.5	8.8	6.6	7.9	3.1	2.5	2.8	-0.1	-0.1	-0.1	
<b>6</b>	13.7	12.8	13.2	8.7	7.2	8.0	2.5	0.9	1.5	0.0	-0.1	-0.1	
<b>7</b>	13.3	12.6	13.0	7.2	5.7	6.4	1.2	0.5	0.9	0.0	-0.1	-0.1	
<b>8</b>	12.9	11.5	12.3	6.7	5.5	6.0	0.7	-0.1	0.3	0.0	-0.1	0.0	
<b>9</b>	12.1	10.3	11.4	7.3	6.2	6.8	0.1	-0.1	-0.1	0.0	-0.1	-0.1	
<b>10</b>	10.4	9.4	9.9	7.1	5.8	6.5	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	
<b>11</b>	10.8	8.6	9.5	5.8	4.8	5.2	0.0	-0.1	-0.1	0.0	-0.1	-0.1	
<b>12</b>	10.4	8.2	9.1	5.3	4.3	4.9	0.9	-0.1	0.1	0.0	-0.1	-0.1	
<b>13</b>	10.1	7.6	8.7	5.5	4.5	5.1	4.1	0.9	3.2	0.0	-0.1	-0.1	
<b>14</b>	9.8	7.2	8.5	5.7	5.0	5.3	3.6	2.9	3.4	0.0	-0.1	-0.1	
<b>15</b>	10.5	9.1	9.9	5.6	4.9	5.1	2.9	0.5	1.6	0.0	-0.1	-0.1	
<b>16</b>	10.6	10.0	10.2	6.7	5.6	6.3	0.5	-0.1	0.0	0.0	-0.1	-0.1	
<b>17</b>	10.5	9.3	9.9	8.7	6.7	7.7	0.5	-0.1	0.2	0.0	-0.1	-0.1	
<b>18</b>	10.3	9.0	9.5	8.2	6.4	7.1	0.3	-0.1	0.0	0.0	-0.1	-0.1	
<b>19</b>	9.0	7.9	8.4	6.4	4.4	5.4	0.5	-0.1	0.1	-0.1	-0.1	-0.1	
<b>20</b>	9.1	7.6	8.4	4.4	3.7	4.1	0.5	0.3	0.4	0.0	-0.1	-0.1	
<b>21</b>	9.9	9.1	9.6	4.0	2.2	2.9	1.3	0.4	0.9	-0.1	-0.1	-0.1	
<b>22</b>	9.3	7.6	8.5	3.3	2.1	2.5	1.5	0.7	1.3	-0.1	-0.1	-0.1	
<b>23</b>	7.6	6.4	7.0	4.4	3.3	3.9	1.3	0.5	0.9	-0.1	-0.1	-0.1	
<b>24</b>	6.9	5.8	6.4	4.4	2.5	3.6	0.7	-0.1	0.3	-0.1	-0.1	-0.1	
<b>25</b>	7.8	6.6	7.1	2.5	1.2	1.7	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	
<b>26</b>	10.2	7.8	9.2	1.7	0.8	1.3	0.0	-0.1	-0.1	0.0	-0.1	-0.1	
<b>27</b>	11.6	10.2	10.9	1.8	1.1	1.4	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	
<b>28</b>	11.9	11.2	11.6	1.3	0.6	1.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	
<b>29</b>	11.6	9.6	10.4	1.3	0.3	0.8	0.0	-0.1	-0.1	0.0	-0.1	0.0	
<b>30</b>	9.6	8.4	8.8	1.8	0.4	1.1	0.0	-0.1	-0.1	0.0	-0.1	0.0	
<b>31</b>	8.4	7.1	8.0	---	---	---	0.0	-0.1	0.0	0.0	-0.1	-0.1	
<b>Month</b>	19.1	5.8	10.5	8.8	0.3	4.7	5.0	-0.1	1.0	0.4	-0.1	-0.1	

**01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME—Continued**
**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>
<b>February</b>				<b>March</b>				<b>April</b>				<b>May</b>
<b>1</b>	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	4.0	0.4	2.1	14.1	11.1	12.5
<b>2</b>	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	3.3	0.7	1.9	15.4	10.8	13.0
<b>3</b>	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	4.7	2.2	3.3	15.5	12.9	13.8
<b>4</b>	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	3.7	2.4	2.9	12.9	11.3	12.0
<b>5</b>	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	3.2	2.3	2.7	11.4	10.6	11.0
<b>6</b>	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	5.1	2.0	3.5	14.1	9.9	11.9
<b>7</b>	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	5.8	2.4	4.3	15.9	11.2	13.4
<b>8</b>	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	6.1	2.7	4.7	16.1	13.0	14.3
<b>9</b>	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	6.7	3.6	5.5	13.8	12.0	12.9
<b>10</b>	-0.1	-0.1	-0.1	0.9	0.0	0.5	7.1	4.2	5.9	12.4	10.9	11.6
<b>11</b>	-0.1	-0.1	-0.1	0.9	0.3	0.6	7.1	5.5	6.4	13.9	10.3	12.0
<b>12</b>	0.0	-0.1	-0.1	1.0	0.3	0.6	8.3	6.0	7.3	15.2	11.3	13.2
<b>13</b>	0.0	-0.1	-0.1	1.8	0.7	1.1	7.5	4.3	5.2	16.4	11.5	14.1
<b>14</b>	0.0	-0.1	-0.1	1.9	0.4	1.0	8.5	4.1	6.0	14.7	13.2	13.8
<b>15</b>	0.0	-0.1	-0.1	2.5	-0.1	1.1	7.5	4.4	6.1	13.4	10.7	12.1
<b>16</b>	0.0	-0.1	-0.1	1.6	0.7	1.1	6.8	4.7	5.9	10.7	10.3	10.4
<b>17</b>	0.0	-0.1	-0.1	3.2	0.7	1.9	7.3	4.4	5.9	10.8	10.1	10.4
<b>18</b>	0.0	-0.1	-0.1	3.6	1.4	2.4	8.9	5.7	7.1	12.1	10.8	11.5
<b>19</b>	0.0	-0.1	-0.1	3.5	1.3	2.3	10.0	7.0	8.4	12.1	11.8	12.0
<b>20</b>	0.0	-0.1	-0.1	3.6	0.6	2.1	9.2	6.7	7.5	12.8	11.4	12.2
<b>21</b>	0.0	-0.1	-0.1	2.7	1.2	1.8	8.5	6.3	7.4	14.9	12.8	13.6
<b>22</b>	0.0	-0.1	-0.1	2.6	1.0	1.7	8.5	5.8	7.4	13.9	12.9	13.3
<b>23</b>	0.0	-0.1	-0.1	2.7	1.4	2.1	8.4	6.5	7.0	13.0	11.5	12.3
<b>24</b>	0.0	-0.1	-0.1	3.3	1.7	2.6	9.1	6.6	7.9	14.2	11.2	12.5
<b>25</b>	0.0	-0.1	-0.1	3.1	1.1	2.3	10.6	8.4	9.4	17.7	14.0	15.8
<b>26</b>	-0.1	-0.1	-0.1	2.8	1.3	2.1	10.0	8.9	9.5	18.8	15.6	16.8
<b>27</b>	-0.1	-0.1	-0.1	2.7	0.9	1.9	10.2	9.2	9.6	19.5	16.3	17.6
<b>28</b>	-0.1	-0.1	-0.1	3.1	1.7	2.2	12.2	9.9	11.0	17.5	16.1	17.1
<b>29</b>	---	---	---	4.4	1.9	3.0	15.3	12.0	13.5	18.9	15.6	17.2
<b>30</b>	---	---	---	5.5	2.8	3.9	14.4	12.2	13.7	20.9	17.5	19.1
<b>31</b>	---	---	---	5.1	3.1	4.0	---	---	---	21.4	17.8	19.5
<b>Month</b>	0.0	-0.1	-0.1	5.5	-0.1	1.3	15.3	0.4	6.6	21.4	9.9	13.6

Water-Data Report 2011

**01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME—Continued**

**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	19.6	18.1	18.7	20.2	17.2	18.9	23.2	18.8	20.8	20.3	17.8	19.0
2	18.5	16.5	17.6	21.6	18.4	19.9	21.0	18.9	19.8	20.0	16.9	18.4
3	16.5	15.1	15.8	20.3	18.4	19.5	21.5	17.6	19.4	19.8	17.2	18.5
4	16.8	13.5	15.2	23.1	18.8	20.4	20.5	18.3	19.4	20.7	18.0	19.3
5	17.7	13.0	15.4	23.6	18.9	21.1	20.5	18.1	19.3	21.6	19.4	20.3
6	19.2	13.9	16.5	24.3	19.6	21.6	22.7	17.9	20.2	20.6	19.1	19.7
7	18.5	15.1	17.0	23.8	20.4	21.7	21.0	18.9	19.8	19.1	17.2	18.1
8	20.2	15.8	17.9	21.5	---	20.0	21.8	18.5	20.0	17.7	16.8	17.2
9	21.1	17.0	19.1	22.5	18.9	20.2	21.8	18.7	20.3	19.1	16.4	17.7
10	21.8	18.7	20.0	23.5	18.3	20.5	20.0	17.6	18.4	18.6	15.9	17.1
11	19.3	17.2	18.1	25.0	20.1	22.0	19.3	17.1	18.0	17.8	13.9	15.7
12	17.3	14.3	15.4	25.4	21.9	23.1	19.7	16.3	18.0	19.1	15.2	16.8
13	15.4	13.9	14.6	24.4	21.6	22.7	20.7	16.4	18.7	19.8	16.5	17.9
14	14.9	13.8	14.2	23.5	19.9	21.3	19.4	16.9	18.4	20.6	17.8	19.0
15	16.8	13.2	15.0	22.9	17.5	20.1	20.5	17.4	18.4	18.6	17.2	18.0
16	18.6	14.1	16.3	23.9	17.8	20.7	18.1	16.4	17.4	17.2	14.4	15.7
17	19.2	15.4	17.4	24.7	19.0	21.8	20.4	16.0	17.9	15.7	12.6	14.0
18	18.7	16.8	17.7	24.2	20.7	22.4	21.3	16.7	18.9	15.3	12.3	13.6
19	19.8	16.0	17.5	24.9	20.6	22.5	22.2	17.9	20.0	15.6	12.0	13.5
20	20.1	15.7	17.7	22.7	18.6	20.9	22.3	19.1	20.7	14.2	12.0	13.1
21	20.6	16.1	18.2	24.0	20.3	22.1	22.6	19.6	20.9	15.4	12.0	13.6
22	20.1	16.5	18.0	27.0	22.2	24.5	21.0	19.1	20.2	15.4	13.6	14.5
23	18.0	16.4	17.3	25.9	22.3	24.0	19.8	17.5	18.6	17.5	15.1	16.1
24	16.4	15.0	15.8	24.0	21.6	22.7	20.4	17.0	18.6	17.1	16.3	16.7
25	---	---	---	22.0	18.3	20.3	20.4	18.0	19.2	19.2	17.0	17.9
26	---	---	---	20.4	18.4	19.1	22.1	18.9	20.2	19.5	16.7	17.9
27	---	---	---	22.3	18.2	19.9	21.1	18.0	19.5	18.8	15.9	17.2
28	---	---	---	21.3	18.1	19.8	19.6	18.7	19.2	17.3	15.8	16.4
29	---	---	---	21.8	18.4	20.1	20.0	18.4	19.2	16.7	15.5	16.0
30	20.0	18.2	19.0	23.1	19.4	21.0	19.9	17.6	18.9	17.6	15.7	16.3
31	---	---	---	23.1	18.9	20.9	20.2	18.0	19.2	---	---	---
<b>Month</b>	---	---	---	27.0	---	21.2	23.2	16.0	19.3	21.6	12.0	16.8

**01037380 DUCKTRAP RIVER NEAR LINCOLNVILLE, ME—Continued**

