

Water-Data Report 2007

**02081094 ROANOKE RIVER AT JAMESVILLE, NC**

Roanoke Basin  
Lower Roanoke Subbasin

LOCATION.--Lat 35°48'47", long 76°53'34" referenced to North American Datum of 1983, Martin County, NC, Hydrologic Unit 03010107, at private pier on right bank, 50 ft downstream of boat ramp at end of Water Street, approximately 19.2 mi upstream from mouth, and 0.5 mi northeast of Jamesville.

DRAINAGE AREA.--9,250 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1990 to September 1993, August 1996 to current year. Records from August 1996 to September 1997 are unpublished and available from the USGS Water Science Center, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.87 ft, September 18, 19, 1999; minimum elevation, -1.14 ft, September 1, 1993.

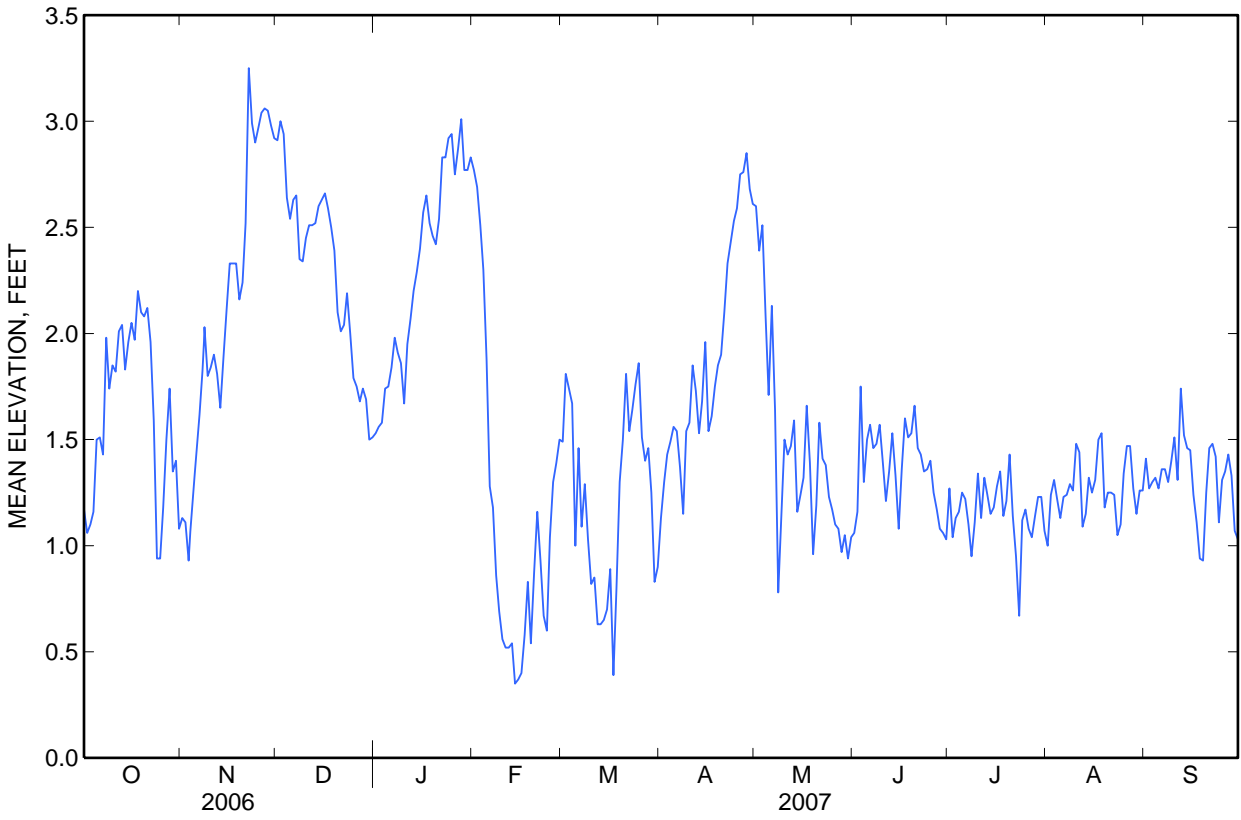
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.61 ft, November 22; minimum elevation, -0.25 ft, February 14.

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

**ELEVATION, FEET**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.17	1.13	2.91	1.53	2.77	1.49	1.13	2.60	1.06	1.27	1.00	1.41
2	1.06	1.11	3.00	1.56	2.69	1.81	1.30	2.39	1.16	1.04	1.24	1.27
3	1.10	0.93	2.94	1.58	2.51	1.74	1.43	2.51	1.75	1.13	1.31	1.30
4	1.16	1.15	2.64	1.74	2.30	1.67	1.49	2.08	1.30	1.16	1.22	1.32
5	1.50	1.36	2.54	1.75	1.88	1.00	1.56	1.71	1.50	1.25	1.13	1.27
6	1.51	1.53	2.63	1.84	1.28	1.46	1.54	2.13	1.57	1.22	1.23	1.36
7	1.43	1.73	2.65	1.98	1.18	1.09	1.37	1.64	1.46	1.10	1.24	1.36
8	1.98	2.03	2.35	1.91	0.86	1.29	1.15	0.78	1.48	0.95	1.29	1.30
9	1.74	1.80	2.34	1.86	0.69	1.03	1.54	1.15	1.57	1.11	1.26	1.40
10	1.85	1.84	2.45	1.67	0.56	0.82	1.58	1.50	1.39	1.34	1.48	1.51
11	1.82	1.90	2.51	1.95	0.52	0.85	1.85	1.43	1.21	1.13	1.44	1.31
12	2.01	1.81	2.51	2.07	0.52	0.63	1.73	1.47	1.35	1.32	1.09	1.74
13	2.04	1.65	2.52	2.20	0.54	0.63	1.53	1.59	1.53	1.24	1.15	1.52
14	1.83	1.89	2.60	2.29	0.35	0.65	1.68	1.16	1.33	1.15	1.32	1.46
15	1.96	2.12	2.63	2.40	0.37	0.70	1.96	1.24	1.08	1.18	1.25	1.45
16	2.05	2.33	2.66	2.57	0.40	0.89	1.54	1.32	1.36	1.28	1.31	1.24
17	1.97	2.33	2.59	2.65	0.58	0.39	1.61	1.66	1.60	1.35	1.50	1.11
18	2.20	2.33	2.50	2.52	0.83	0.80	1.75	1.39	1.51	1.14	1.53	0.94
19	2.10	2.16	2.39	2.46	0.54	1.30	1.85	0.96	1.53	1.21	1.18	0.93
20	2.08	2.24	2.10	2.42	0.87	1.50	1.90	1.19	1.66	1.43	1.25	1.25
21	2.12	2.52	2.01	2.54	1.16	1.81	2.10	1.58	1.46	1.14	1.25	1.46
22	1.96	3.25	2.04	2.83	0.93	1.54	2.33	1.41	1.43	0.95	1.24	1.48
23	1.59	2.99	2.19	2.83	0.67	1.64	2.43	1.38	1.35	0.67	1.05	1.42
24	0.94	2.90	2.00	2.92	0.60	1.76	2.53	1.23	1.36	1.12	1.10	1.11
25	0.94	2.97	1.79	2.94	1.04	1.86	2.59	1.17	1.40	1.17	1.34	1.31
26	1.18	3.04	1.75	2.75	1.30	1.51	2.75	1.10	1.25	1.08	1.47	1.35
27	1.50	3.06	1.68	2.87	1.39	1.40	2.76	1.08	1.17	1.04	1.47	1.43
28	1.74	3.05	1.74	3.01	1.50	1.46	2.85	0.97	1.08	1.14	1.27	1.33
29	1.35	2.98	1.69	2.77	---	1.25	2.68	1.05	1.06	1.23	1.15	1.07
30	1.40	2.92	1.50	2.77	---	0.83	2.61	0.94	1.03	1.23	1.26	1.03
31	1.08	---	1.51	2.83	---	0.90	---	1.04	---	1.07	1.26	---
<b>Mean</b>	1.62	2.17	2.30	2.32	1.10	1.22	1.90	1.45	1.37	1.16	1.27	1.31
<b>Max</b>	2.20	3.25	3.00	3.01	2.77	1.86	2.85	2.60	1.75	1.43	1.53	1.74
<b>Min</b>	0.94	0.93	1.50	1.53	0.35	0.39	1.13	0.78	1.03	0.67	1.00	0.93

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued



**02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1955 to 1967, 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1955 to September 1967, March 1998 to current year

pH: March 1998 to current year.

WATER TEMPERATURE: October 1955 to September 1967, March 1998 to current year.

DISSOLVED OXYGEN: March 1998 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: March 1998 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from March 1998 to current year.

REMARKS.--Station operated to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000.

COOPERATION.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 182 microsiemens, April 11, 1999; minimum recorded, 36 microsiemens, September 19-21, 1999.

pH: Maximum recorded, 7.7 standard units, June 14, 15, 16, 17, 2002; minimum recorded, 5.6 standard units, May 3, 1998, September 18, 19, 1999

WATER TEMPERATURE: Maximum recorded, 31.4°C, August 3, 2002; minimum recorded, 2.2°C, January 5, 6, 2001, January 28, 29, 2003.

DISSOLVED OXYGEN: Maximum recorded, 14.3 mg/L, January 8, 1999; minimum recorded, <1.0 mg/L, September 21-30, 2003.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 112%, January 8, 1999; minimum recorded, <10%, September 21-30, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 155 microsiemens, September 29; minimum recorded, 90 microsiemens, February 1, 2, 3, March 20, 21.

pH: Maximum recorded, 7.4 standard units, September 17, 18; minimum recorded, 6.1 standard units, May 3.

WATER TEMPERATURE: Maximum recorded, 31.0°C, August 9, 10; minimum recorded, 4.0°C, February 6.

DISSOLVED OXYGEN: Maximum recorded, 12.6 mg/L, February 20; minimum recorded, 4.9, September 15.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 101%, May 29; minimum recorded, 54%, November 25, 26, December 2.

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	October			November			December			January		
<b>1</b>	136	120	130	113	111	112	102	100	101	100	96	97
<b>2</b>	137	129	133	114	112	113	103	101	102	102	98	100
<b>3</b>	132	119	126	122	114	118	103	102	102	114	100	108
<b>4</b>	121	118	119	123	117	120	103	102	102	116	105	111
<b>5</b>	135	120	126	118	112	114	103	102	103	110	105	107
<b>6</b>	135	122	130	113	112	113	103	103	103	108	104	106
<b>7</b>	126	117	122	116	113	114	103	103	103	109	104	106
<b>8</b>	122	117	119	116	113	114	104	103	103	106	104	105
<b>9</b>	118	115	116	113	111	112	104	103	104	104	102	103
<b>10</b>	125	118	122	113	111	112	105	104	104	102	101	102
<b>11</b>	118	112	114	115	112	113	105	104	104	103	101	102
<b>12</b>	120	112	116	126	112	121	105	104	104	102	100	101
<b>13</b>	117	112	114	116	108	111	105	104	104	104	100	100
<b>14</b>	118	112	115	112	107	109	104	104	104	100	100	100
<b>15</b>	116	113	114	113	104	107	104	103	104	100	99	100
<b>16</b>	116	113	114	106	101	103	104	103	104	101	99	100
<b>17</b>	115	113	113	105	101	103	104	103	104	100	99	100
<b>18</b>	113	112	112	107	102	103	105	104	104	100	99	99
<b>19</b>	113	112	112	105	93	98	106	104	105	99	99	99
<b>20</b>	114	112	113	99	94	97	108	105	106	101	99	99
<b>21</b>	116	113	114	101	99	100	108	105	106	100	99	99
<b>22</b>	115	113	114	101	95	97	113	106	108	99	97	97
<b>23</b>	115	112	113	95	94	94	111	106	108	98	97	97
<b>24</b>	116	112	113	98	95	96	109	106	107	98	97	98
<b>25</b>	119	113	116	99	97	98	106	103	106	98	97	98
<b>26</b>	118	112	115	99	98	99	105	103	104	99	97	97
<b>27</b>	115	112	113	99	97	98	107	104	105	97	96	97
<b>28</b>	115	111	112	99	98	98	107	100	105	97	95	96
<b>29</b>	114	111	112	99	98	99	100	91	95	95	94	95
<b>30</b>	114	110	112	101	99	100	101	95	98	94	93	93
<b>31</b>	114	111	113	---	---	---	100	97	98	93	92	93
<b>Month</b>	137	110	117	126	93	106	113	91	104	116	92	100

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	93	90	92	98	94	96	99	97	98	103	102	102
<b>2</b>	91	90	90	100	95	97	105	98	102	105	103	104
<b>3</b>	92	90	91	99	94	97	104	96	99	105	104	104
<b>4</b>	93	91	92	99	94	97	98	96	96	105	104	105
<b>5</b>	98	91	92	98	95	96	100	96	98	106	105	105
<b>6</b>	94	91	92	97	96	97	100	99	99	106	104	105
<b>7</b>	100	92	95	99	97	98	99	98	99	106	104	105
<b>8</b>	105	99	103	103	99	102	100	99	99	106	105	106
<b>9</b>	106	97	102	105	103	104	100	99	99	107	106	107
<b>10</b>	103	97	99	106	104	105	102	99	101	108	107	108
<b>11</b>	100	96	97	106	104	105	102	101	101	108	107	108
<b>12</b>	103	99	101	106	105	105	102	100	101	109	107	108
<b>13</b>	110	103	107	106	105	106	101	101	101	109	108	108
<b>14</b>	108	104	107	107	106	107	102	101	102	109	107	109
<b>15</b>	112	106	110	109	107	108	102	96	100	108	107	108
<b>16</b>	112	110	111	110	108	109	97	93	95	108	107	108
<b>17</b>	111	109	110	117	110	115	98	94	96	108	107	108
<b>18</b>	110	104	107	117	112	115	99	97	98	109	106	108
<b>19</b>	106	97	100	112	91	99	99	97	97	108	106	107
<b>20</b>	100	93	95	91	90	90	99	97	98	108	106	107
<b>21</b>	99	93	96	92	90	91	99	98	99	108	107	107
<b>22</b>	99	94	96	92	91	91	100	99	99	108	107	108
<b>23</b>	99	94	96	93	91	92	100	99	99	108	107	108
<b>24</b>	105	95	100	93	92	92	99	99	99	108	107	108
<b>25</b>	102	95	98	93	92	92	100	99	99	109	107	108
<b>26</b>	103	96	100	93	92	92	100	99	99	109	107	108
<b>27</b>	101	95	98	96	93	95	101	100	100	109	107	108
<b>28</b>	101	94	97	97	96	96	101	100	100	109	107	108
<b>29</b>	---	---	---	99	97	97	101	100	101	109	107	108
<b>30</b>	---	---	---	99	96	98	102	101	101	109	107	108
<b>31</b>	---	---	---	101	98	99	---	---	---	109	107	109
<b>Month</b>	112	90	99	117	90	99	105	93	99	109	102	107

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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		
<b>1</b>	109	108	109	120	112	118	127	115	122	125	122	123
<b>2</b>	109	107	108	114	109	110	128	116	122	126	121	124
<b>3</b>	109	108	108	119	114	118	130	116	123	123	118	120
<b>4</b>	110	108	109	120	119	119	130	124	128	128	123	127
<b>5</b>	110	108	109	121	119	120	124	117	120	128	119	123
<b>6</b>	110	108	109	121	120	121	124	121	123	128	120	125
<b>7</b>	110	109	110	122	119	121	122	115	117	132	124	130
<b>8</b>	112	109	111	121	119	121	121	115	119	132	131	131
<b>9</b>	116	112	114	122	120	121	123	115	119	132	130	131
<b>10</b>	117	115	116	123	120	122	128	118	124	131	126	130
<b>11</b>	117	115	116	123	121	122	128	117	124	126	119	121
<b>12</b>	116	115	115	122	121	121	121	110	116	132	120	124
<b>13</b>	116	111	114	123	120	122	119	110	113	134	130	133
<b>14</b>	119	111	114	121	118	120	119	110	114	132	121	125
<b>15</b>	121	118	120	118	110	113	110	108	109	131	125	129
<b>16</b>	121	119	120	120	112	116	112	109	110	131	122	125
<b>17</b>	120	118	119	123	120	122	128	112	120	140	131	137
<b>18</b>	119	117	118	123	121	122	132	128	129	142	139	141
<b>19</b>	120	118	119	124	122	123	133	130	131	142	140	141
<b>20</b>	121	118	119	125	121	123	132	124	126	142	140	142
<b>21</b>	120	116	119	124	121	122	125	123	124	140	134	136
<b>22</b>	117	107	111	122	120	121	125	122	123	142	137	140
<b>23</b>	114	107	111	122	119	120	126	117	122	143	141	142
<b>24</b>	111	106	108	122	119	120	124	116	119	145	143	144
<b>25</b>	115	106	109	126	122	124	129	124	126	145	144	144
<b>26</b>	116	109	113	129	125	126	129	126	127	147	143	145
<b>27</b>	119	109	114	130	127	128	129	122	126	148	145	146
<b>28</b>	120	119	119	131	129	130	122	113	116	155	148	152
<b>29</b>	120	119	120	133	129	130	119	111	115	155	153	154
<b>30</b>	121	118	119	134	131	132	111	110	110	154	153	153
<b>31</b>	---	---	---	131	114	121	125	110	116	---	---	---
<b>Month</b>	121	106	114	134	109	122	133	108	120	155	118	135

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	October			November			December			January		
1	7.2	7.2	7.2	6.6	6.5	6.6	6.5	6.5	6.5	6.5	6.4	6.5
2	7.2	7.2	7.2	6.6	6.4	6.5	6.5	6.5	6.5	6.5	6.4	6.4
3	7.2	7.2	7.2	6.6	6.4	6.4	6.5	6.5	6.5	6.7	6.5	6.6
4	7.2	7.2	7.2	6.8	6.6	6.7	6.6	6.5	6.6	6.9	6.7	6.8
5	7.3	7.2	7.2	6.9	6.8	6.9	6.6	6.6	6.6	7.0	6.8	7.0
6	7.3	7.3	7.3	6.9	6.9	6.9	6.6	6.6	6.6	7.0	6.9	6.9
7	7.3	7.2	7.2	6.9	6.8	6.8	6.6	6.6	6.6	6.9	6.8	6.9
8	7.2	7.1	7.2	6.8	6.6	6.8	6.6	6.4	6.5	6.8	6.8	6.8
9	7.2	7.1	7.2	6.6	6.5	6.6	6.5	6.5	6.5	6.8	6.8	6.8
10	7.2	7.1	7.1	6.5	6.5	6.5	6.6	6.5	6.5	6.8	6.8	6.8
11	7.1	7.1	7.1	6.6	6.5	6.6	6.6	6.5	6.5	6.8	6.7	6.8
12	7.1	7.1	7.1	6.7	6.6	6.7	6.5	6.5	6.5	6.7	6.7	6.7
13	7.1	7.1	7.1	6.7	6.6	6.6	6.6	6.4	6.5	6.7	6.6	6.7
14	7.1	7.1	7.1	6.7	6.6	6.6	6.6	6.5	6.5	6.7	6.6	6.6
15	7.2	7.1	7.1	6.7	6.5	6.6	6.5	6.5	6.5	6.7	6.6	6.6
16	7.1	7.1	7.1	6.6	6.5	6.6	6.5	6.5	6.5	6.7	6.6	6.6
17	7.1	7.0	7.0	6.6	6.5	6.5	6.6	6.5	6.5	6.7	6.6	6.7
18	7.1	7.0	7.1	6.5	6.5	6.5	6.5	6.5	6.5	6.7	6.7	6.7
19	7.1	7.0	7.0	6.5	6.4	6.5	6.5	6.5	6.5	6.7	6.7	6.7
20	7.0	6.9	7.0	6.5	6.4	6.5	6.6	6.5	6.5	6.8	6.7	6.7
21	7.0	7.0	7.0	6.6	6.5	6.5	6.5	6.5	6.5	6.8	6.7	6.8
22	7.0	6.9	6.9	6.6	6.5	6.5	6.6	6.5	6.5	6.8	6.8	6.8
23	6.9	6.8	6.8	6.5	6.4	6.4	6.6	6.6	6.6	6.8	6.7	6.8
24	6.9	6.8	6.8	6.4	6.4	6.4	6.6	6.4	6.5	6.8	6.8	6.8
25	7.0	6.8	6.9	6.4	6.4	6.4	6.5	6.4	6.5	6.8	6.8	6.8
26	7.0	7.0	7.0	6.4	6.4	6.4	6.5	6.4	6.4	6.8	6.8	6.8
27	7.0	7.0	7.0	6.4	6.4	6.4	6.5	6.4	6.4	6.8	6.8	6.8
28	7.0	7.0	7.0	6.4	6.4	6.4	6.5	6.4	6.5	6.8	6.8	6.8
29	7.0	6.8	6.9	6.4	6.4	6.4	6.6	6.4	6.5	6.8	6.8	6.8
30	6.8	6.7	6.7	6.5	6.4	6.5	6.6	6.6	6.6	6.8	6.8	6.8
31	6.7	6.6	6.6	---	---	---	6.6	6.5	6.5	6.8	6.8	6.8
<b>Max</b>	7.3	7.3	7.3	6.9	6.9	6.9	6.6	6.6	6.6	7.0	6.9	7.0
<b>Min</b>	6.7	6.6	6.6	6.4	6.4	6.4	6.5	6.4	6.4	6.5	6.4	6.4



## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	February			March			April			May		
1	6.8	6.7	6.8	6.8	6.8	6.8	6.4	6.4	6.4	6.2	6.2	6.2
2	6.8	6.7	6.7	6.8	6.8	6.8	6.6	6.4	6.5	6.3	6.2	6.2
3	6.8	6.7	6.7	6.8	6.8	6.8	6.6	6.5	6.6	6.3	6.1	6.2
4	6.7	6.7	6.7	6.8	6.6	6.8	6.7	6.6	6.6	6.3	6.3	6.3
5	6.7	6.6	6.7	6.6	6.5	6.6	6.8	6.6	6.7	6.3	6.3	6.3
6	6.6	6.6	6.6	6.5	6.5	6.5	6.7	6.6	6.7	6.4	6.3	6.4
7	6.9	6.6	6.6	6.5	6.5	6.5	6.7	6.7	6.7	6.4	6.3	6.4
8	7.0	6.9	6.9	6.6	6.5	6.6	6.8	6.7	6.7	6.4	6.4	6.4
9	7.0	7.0	7.0	6.6	6.6	6.6	6.8	6.7	6.8	6.5	6.4	6.4
10	7.0	6.9	6.9	6.7	6.6	6.6	6.7	6.7	6.7	6.5	6.4	6.5
11	6.9	6.9	6.9	6.6	6.6	6.6	6.8	6.7	6.7	6.5	6.4	6.4
12	6.9	6.9	6.9	6.6	6.6	6.6	6.7	6.7	6.7	6.5	6.4	6.4
13	6.9	6.9	6.9	6.6	6.6	6.6	6.7	6.6	6.7	6.5	6.4	6.5
14	6.9	6.8	6.9	6.6	6.6	6.6	6.7	6.7	6.7	6.5	6.4	6.5
15	6.9	6.8	6.9	6.6	6.6	6.6	6.7	6.6	6.7	6.6	6.5	6.5
16	6.9	6.8	6.8	6.6	6.5	6.5	6.6	6.4	6.5	6.6	6.5	6.5
17	6.8	6.8	6.8	6.6	6.5	6.5	6.5	6.4	6.4	6.6	6.5	6.6
18	6.9	6.8	6.8	6.7	6.6	6.6	6.6	6.5	6.5	6.6	6.6	6.6
19	7.1	6.9	7.0	6.9	6.7	6.8	6.6	6.5	6.6	6.6	6.6	6.6
20	7.1	7.1	7.1	7.0	6.9	6.9	6.6	6.5	6.5	6.6	6.6	6.6
21	7.1	7.0	7.1	7.0	6.9	7.0	6.6	6.5	6.5	6.6	6.6	6.6
22	7.0	6.9	7.0	6.9	6.7	6.7	6.5	6.4	6.4	6.7	6.6	6.6
23	6.9	6.8	6.9	6.7	6.7	6.7	6.4	6.4	6.4	6.7	6.6	6.7
24	6.8	6.8	6.8	6.7	6.6	6.6	6.4	6.3	6.3	6.8	6.7	6.7
25	6.9	6.8	6.9	6.6	6.5	6.5	6.3	6.3	6.3	6.8	6.8	6.8
26	6.9	6.9	6.9	6.5	6.4	6.5	6.3	6.3	6.3	6.8	6.8	6.8
27	6.9	6.8	6.8	6.5	6.4	6.5	6.3	6.2	6.2	6.8	6.6	6.7
28	6.8	6.8	6.8	6.4	6.3	6.4	6.2	6.2	6.2	6.7	6.7	6.7
29	---	---	---	6.4	6.4	6.4	6.2	6.2	6.2	6.8	6.7	6.7
30	---	---	---	6.4	6.4	6.4	6.3	6.2	6.2	6.8	6.8	6.8
31	---	---	---	6.4	6.4	6.4	---	---	---	6.8	6.7	6.8
<b>Max</b>	7.1	7.1	7.1	7.0	6.9	7.0	6.8	6.7	6.8	6.8	6.8	6.8
<b>Min</b>	6.6	6.6	6.6	6.4	6.3	6.4	6.2	6.2	6.2	6.2	6.1	6.2

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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	6.7	6.8	7.1	6.9	7.0	6.9	6.8	6.9	7.2	7.0	7.1
2	6.8	6.7	6.8	7.0	6.9	7.0	7.0	6.9	6.9	7.2	7.0	7.1
3	6.8	6.7	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.1
4	6.8	6.6	6.7	7.1	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1
5	6.7	6.6	6.6	7.1	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.1
6	6.7	6.6	6.7	7.1	6.8	7.0	7.0	7.0	7.0	7.2	7.1	7.1
7	6.7	6.6	6.6	6.8	6.8	6.8	7.0	6.9	7.0	7.2	7.1	7.2
8	6.7	6.6	6.7	6.9	6.8	6.8	7.0	7.0	7.0	7.2	7.2	7.2
9	6.8	6.6	6.7	6.9	6.8	6.8	7.1	7.0	7.0	7.2	7.1	7.2
10	6.7	6.6	6.7	7.0	6.8	6.9	7.2	7.1	7.1	7.2	7.1	7.2
11	6.8	6.6	6.7	7.0	6.9	6.9	7.1	7.0	7.1	7.2	7.1	7.1
12	6.7	6.5	6.6	7.0	6.9	7.0	7.0	7.0	7.0	7.2	7.1	7.2
13	6.7	6.6	6.6	7.0	6.9	7.0	7.1	7.0	7.0	7.3	7.1	7.2
14	6.7	6.6	6.7	7.0	6.8	6.9	7.1	7.0	7.0	7.2	7.1	7.1
15	6.7	6.6	6.7	6.9	6.8	6.8	7.1	7.0	7.0	7.2	7.1	7.2
16	6.7	6.6	6.7	6.9	6.7	6.8	7.1	7.0	7.1	7.3	7.2	7.2
17	6.7	6.6	6.7	6.9	6.8	6.8	7.1	7.0	7.0	7.4	7.2	7.2
18	6.7	6.6	6.7	6.9	6.8	6.9	7.0	7.0	7.0	7.4	7.2	7.3
19	6.8	6.7	6.7	6.9	6.8	6.8	7.1	7.0	7.0	7.3	7.2	7.3
20	6.9	6.7	6.8	6.9	6.8	6.8	7.1	7.0	7.0	7.3	7.1	7.2
21	6.9	6.9	6.9	6.9	6.8	6.9	7.1	7.0	7.0	7.2	7.0	7.2
22	6.9	6.7	6.8	7.0	6.8	6.9	7.2	7.0	7.1	7.1	7.0	7.1
23	6.9	6.8	6.8	6.9	6.8	6.9	7.2	7.0	7.1	7.3	7.0	7.1
24	6.9	6.8	6.8	6.9	6.8	6.8	7.2	7.1	7.1	7.3	7.0	7.1
25	6.9	6.8	6.9	6.9	6.8	6.8	7.2	7.1	7.1	7.2	7.0	7.1
26	6.9	6.8	6.9	6.9	6.8	6.9	7.2	7.1	7.2	7.1	6.9	7.0
27	6.9	6.8	6.9	7.0	6.9	6.9	7.2	7.1	7.1	7.1	6.9	7.0
28	7.0	6.9	6.9	7.0	6.9	7.0	7.1	7.0	7.1	7.0	7.0	7.0
29	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.1	7.1	7.1	7.0	7.1
30	7.0	6.9	7.0	7.0	7.0	7.0	7.2	7.1	7.1	7.2	7.1	7.1
31	---	---	---	7.0	6.8	7.0	7.2	7.1	7.2	---	---	---
<b>Max</b>	7.0	6.9	7.0	7.1	7.0	7.0	7.2	7.1	7.2	7.4	7.2	7.3
<b>Min</b>	6.7	6.5	6.6	6.8	6.7	6.8	6.9	6.8	6.9	7.0	6.9	7.0

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	October			November			December			January		
<b>1</b>	23.1	22.7	22.8	16.1	15.6	15.9	14.7	13.4	14.0	10.1	9.3	9.8
<b>2</b>	22.8	22.2	22.5	16.1	15.8	16.0	14.6	13.4	14.0	10.4	10.1	10.3
<b>3</b>	22.8	22.4	22.6	15.8	15.2	15.4	13.4	12.4	12.7	10.6	10.1	10.4
<b>4</b>	22.8	22.4	22.6	15.4	15.0	15.2	12.4	11.4	12.0	10.6	10.2	10.4
<b>5</b>	23.0	22.4	22.7	15.0	14.6	14.7	11.4	10.3	10.7	10.8	10.0	10.4
<b>6</b>	23.0	22.6	22.8	14.8	14.3	14.5	10.3	9.7	10.1	11.6	10.8	11.3
<b>7</b>	22.6	22.3	22.4	14.5	14.0	14.3	10.7	10.2	10.4	11.8	11.2	11.4
<b>8</b>	22.3	22.0	22.1	14.9	14.4	14.6	10.3	8.1	9.1	12.2	11.8	12.0
<b>9</b>	22.0	21.3	21.7	14.8	14.5	14.7	8.1	7.3	7.6	11.8	10.7	11.1
<b>10</b>	21.3	20.0	20.6	15.0	14.5	14.7	7.5	6.8	7.2	10.7	9.5	10.1
<b>11</b>	21.3	20.0	20.8	15.6	14.9	15.3	8.0	7.3	7.6	9.5	8.8	9.0
<b>12</b>	21.1	20.9	21.0	15.7	15.1	15.5	8.3	7.6	7.9	9.1	8.4	8.8
<b>13</b>	21.1	20.4	20.7	15.1	14.7	14.9	9.1	8.3	8.7	9.8	8.9	9.3
<b>14</b>	20.5	19.8	20.1	15.0	14.6	14.8	9.8	9.1	9.5	10.6	9.7	10.1
<b>15</b>	20.2	19.6	19.9	14.7	14.4	14.5	10.3	9.8	10.0	11.4	10.5	10.9
<b>16</b>	19.8	19.2	19.5	15.2	14.5	14.9	10.1	9.7	9.9	11.4	11.1	11.3
<b>17</b>	19.5	19.2	19.4	15.1	14.8	14.9	9.9	9.4	9.7	11.1	8.9	10
<b>18</b>	19.7	19.3	19.5	14.8	14.2	14.3	10.3	9.6	9.9	8.9	8.0	8.3
<b>19</b>	19.9	19.5	19.7	14.3	13.7	14.0	10.4	9.9	10.1	8.4	7.8	8.1
<b>20</b>	20.4	19.8	20.0	13.7	13.0	13.3	10.1	9.4	9.6	8.2	7.4	7.7
<b>21</b>	20.2	19.6	19.9	13.0	12.3	12.6	9.5	9.1	9.3	7.4	6.6	6.9
<b>22</b>	19.6	18.8	19.1	12.5	12.2	12.3	10.0	9.4	9.6	6.6	6.4	6.5
<b>23</b>	18.8	17.8	18.3	12.3	11.6	11.9	10.8	10.0	10.4	7.2	6.6	6.8
<b>24</b>	17.8	16.7	17.2	11.8	11.3	11.6	10.7	10.4	10.5	7.1	6.6	6.9
<b>25</b>	16.7	16.1	16.4	11.6	11.0	11.3	10.8	10.3	10.4	7.0	6.6	6.8
<b>26</b>	16.6	16.1	16.3	11.4	10.8	11.2	11.1	10.8	11.0	6.6	5.6	5.9
<b>27</b>	16.3	15.5	15.8	11.8	11.1	11.4	11.0	10.7	10.8	6.5	5.4	5.9
<b>28</b>	15.8	15.5	15.7	12.2	11.5	11.8	10.7	10.2	10.4	7.4	6.5	6.9
<b>29</b>	15.7	15.2	15.5	12.8	12.1	12.4	10.2	9.7	9.9	7.2	5.5	6.2
<b>30</b>	15.7	15.2	15.4	13.4	12.6	12.9	9.7	9.1	9.3	5.5	4.8	5.2
<b>31</b>	15.7	15.3	15.5	---	---	---	9.3	9.1	9.2	5.3	4.8	5.1
<b>Month</b>	23.1	15.2	19.6	16.1	10.8	13.9	14.7	6.8	10.0	12.2	4.8	8.7

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	4.9	4.4	4.5	7.9	7.4	7.7	15.6	14.8	15.2	19.5	18.4	18.9
<b>2</b>	5.2	4.4	4.7	8.6	7.9	8.3	15.6	14.8	15.2	20.0	19.1	19.5
<b>3</b>	5.5	5.0	5.2	8.8	8.2	8.6	15.6	14.5	15.1	19.9	19.3	19.8
<b>4</b>	5.5	4.9	5.2	8.9	8.5	8.8	15.5	15.0	15.2	19.3	18.7	19.0
<b>5</b>	5.3	4.7	4.9	9.3	8.8	9.0	15.9	15.0	15.5	18.8	18.4	18.6
<b>6</b>	4.7	4.0	4.2	9.5	9.0	9.2	15.5	14.3	14.9	19.1	18.2	18.7
<b>7</b>	4.6	4.1	4.3	9.3	8.7	9.1	14.6	14.0	14.2	18.2	17.1	17.4
<b>8</b>	4.7	4.4	4.5	9.6	8.8	9.2	14.0	13.1	13.4	17.5	17.0	17.2
<b>9</b>	4.8	4.3	4.5	9.5	8.8	9.1	13.3	12.8	13.1	17.9	17.3	17.6
<b>10</b>	4.8	4.3	4.6	9.8	8.9	9.3	13.6	12.6	13.0	18.7	17.7	18.1
<b>11</b>	4.8	4.3	4.6	10.3	9.3	9.8	13.3	12.7	12.9	19.8	18.2	18.9
<b>12</b>	5.1	4.4	4.7	10.6	9.7	10.1	14.1	12.8	13.3	20.1	19.4	19.7
<b>13</b>	5.6	4.9	5.2	10.9	10.3	10.6	14.4	13.4	13.9	20.1	19.8	19.9
<b>14</b>	6.0	5.6	5.9	11.7	10.9	11.3	14.2	13.5	13.9	20.3	19.3	19.8
<b>15</b>	6.0	5.6	5.8	12.5	11.7	12.0	15.3	14.2	14.6	20.3	19.3	19.8
<b>16</b>	5.8	5.5	5.6	13.0	12.5	12.8	15.1	13.9	14.4	20.2	19.3	19.8
<b>17</b>	5.5	5.3	5.4	12.7	12.2	12.5	14.4	13.7	14.1	20.2	19.9	20.1
<b>18</b>	5.3	4.6	5.0	12.2	10.8	11.7	14.4	13.8	14.1	20.6	19.9	20.2
<b>19</b>	4.8	4.4	4.6	10.8	9.7	10.2	14.1	13.5	13.7	20.8	19.8	20.3
<b>20</b>	5.3	4.4	4.9	10.2	9.8	10	14.1	13.2	13.6	21.2	20.3	20.7
<b>21</b>	5.8	5.2	5.4	10.0	9.7	9.9	14.8	13.6	14.1	21.1	20.4	20.8
<b>22</b>	6.7	5.5	6.0	10.8	10.0	10.3	15.4	14.1	14.7	21.0	20.4	20.7
<b>23</b>	6.7	6.2	6.5	12.3	10.8	11.5	16.2	14.8	15.4	21.8	20.7	21.2
<b>24</b>	7.1	6.5	6.8	13.7	12.0	12.7	16.8	15.8	16.2	22.3	21.4	21.8
<b>25</b>	7.0	6.7	6.8	15.0	13.6	14.2	17.7	16.5	17.0	22.8	21.9	22.3
<b>26</b>	7.3	6.8	7.1	14.7	13.7	14.2	18.1	17.4	17.7	22.9	22.2	22.6
<b>27</b>	7.6	7.2	7.4	15.4	14.5	14.8	18.6	17.8	18.2	23.5	22.4	22.9
<b>28</b>	7.9	7.4	7.7	15.8	15.3	15.5	18.8	18.2	18.5	24.0	23.0	23.4
<b>29</b>	---	---	---	15.8	14.3	15.0	18.6	17.9	18.3	24.4	23.5	23.9
<b>30</b>	---	---	---	14.7	14.3	14.5	18.9	17.8	18.3	24.7	24.2	24.4
<b>31</b>	---	---	---	15.2	14.5	14.8	---	---	---	24.7	24.2	24.5
<b>Month</b>	7.9	4.0	5.4	15.8	7.4	11.2	18.9	12.6	15.1	24.7	17.0	20.4

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	June			July			August			September		
<b>1</b>	25.3	24.4	24.7	28.3	27.9	28.1	29.1	28.2	28.6	28.9	28.1	28.4
<b>2</b>	25.5	25.2	25.3	28.2	27.6	27.9	28.8	28.1	28.4	28.1	27.8	27.9
<b>3</b>	25.3	24.6	24.9	28.1	27.5	27.8	29.0	28.3	28.6	28.0	27.5	27.7
<b>4</b>	25.3	24.7	24.9	27.9	27.4	27.7	29.0	28.3	28.7	28.0	27.5	27.8
<b>5</b>	25.6	24.6	25.0	28.1	27.6	27.8	29.3	28.2	28.7	27.9	27.5	27.7
<b>6</b>	25.6	25.2	25.4	28.3	27.8	28.0	29.6	29.2	29.3	28.1	27.3	27.7
<b>7</b>	26.3	25.2	25.7	28.2	27.8	28.0	30.0	29.3	29.6	28.3	27.5	27.8
<b>8</b>	26.7	25.9	26.3	28.6	27.7	28.1	30.9	29.7	30.1	27.9	27.4	27.6
<b>9</b>	27.3	26.2	26.6	29.2	28.4	28.7	31.0	30.0	30.4	28.0	27.6	27.7
<b>10</b>	27.1	26.4	26.7	29.4	28.7	29.0	31.0	30.3	30.6	28.4	27.6	27.9
<b>11</b>	28.0	26.4	27.0	29.8	29.0	29.4	30.5	29.6	30.1	28.3	27.8	28.0
<b>12</b>	27.9	27.0	27.3	30.1	29.5	29.8	29.6	29.0	29.3	28.1	27.8	27.9
<b>13</b>	27.7	27.0	27.3	30.0	29.2	29.4	29.7	29.1	29.3	28.2	27.6	27.8
<b>14</b>	27.4	26.7	27.0	29.2	28.6	28.8	29.3	28.8	29.0	27.7	27.2	27.4
<b>15</b>	26.7	26.1	26.4	28.9	28.5	28.7	29.3	28.5	28.8	27.5	27.0	27.2
<b>16</b>	26.5	25.9	26.1	28.9	28.6	28.8	29.4	28.8	29.1	27.2	26.4	26.7
<b>17</b>	26.4	25.6	26.0	28.7	28.3	28.5	29.4	29.0	29.2	26.5	26.0	26.2
<b>18</b>	26.7	25.7	26.2	28.8	28.3	28.5	29.5	29.0	29.3	26.0	25.5	25.7
<b>19</b>	26.6	26.1	26.3	28.8	28.1	28.5	29.4	29.0	29.2	25.5	25.2	25.3
<b>20</b>	26.6	26.1	26.3	29.3	28.7	29.0	30.1	29.1	29.4	25.3	24.9	25.0
<b>21</b>	27.5	26.5	27.0	29.2	28.8	28.9	30.2	29.3	29.6	25.6	24.8	24.9
<b>22</b>	27.1	26.3	26.6	29.0	28.5	28.7	29.7	29.3	29.5	25.3	24.8	24.9
<b>23</b>	27.0	26.5	26.7	29.0	28.2	28.5	29.8	29.2	29.4	26.2	24.8	25.2
<b>24</b>	27.0	26.3	26.6	29.1	28.0	28.4	29.8	29.1	29.4	26.1	24.7	25.1
<b>25</b>	27.3	26.8	27.0	28.7	28.1	28.3	30.1	29.4	29.7	25.3	24.5	24.7
<b>26</b>	27.4	27.0	27.2	28.9	28.1	28.3	30.1	29.6	29.9	25.3	24.4	24.7
<b>27</b>	28.1	27.3	27.7	28.7	28.1	28.5	29.8	29.3	29.4	25.2	24.6	24.8
<b>28</b>	28.5	27.8	28.1	28.8	28.1	28.5	29.3	28.8	29.0	25.5	24.8	25.1
<b>29</b>	28.5	28.1	28.3	28.9	28.4	28.7	29.1	28.7	28.9	25.5	25.1	25.3
<b>30</b>	28.5	27.7	28.1	28.7	28.3	28.5	29.0	28.6	28.8	25.6	25.0	25.2
<b>31</b>	---	---	---	28.8	28.3	28.5	28.9	28.7	28.8	---	---	---
<b>Month</b>	28.5	24.4	26.5	30.1	27.4	28.5	31.0	28.1	29.3	28.9	24.4	26.5

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	October			November			December			January		
1	---	---	---	6.6	6.0	6.3	6.2	5.8	6.0	8.5	8.2	8.3
2	---	---	---	6.2	5.7	6.0	6.0	5.7	5.8	8.7	8.2	8.4
3	---	---	---	7.0	5.7	6.2	6.4	6.0	6.2	9.4	8.4	8.9
4	---	---	---	8.2	6.9	7.6	7.0	6.3	6.7	9.9	9.2	9.6
5	---	---	---	8.7	8.0	8.4	7.3	6.9	7.2	10.0	9.6	9.8
6	---	---	---	8.8	8.4	8.6	7.6	7.3	7.5	9.8	9.3	9.6
7	6.9	6.4	6.7	9.1	8.6	8.9	7.5	7.3	7.4	9.5	8.9	9.3
8	6.8	6.4	6.5	9.1	7.8	8.7	8.2	7.4	7.7	9.1	8.7	8.9
9	6.9	6.5	6.7	8.0	6.4	6.9	8.6	8.0	8.3	9.2	8.6	8.9
10	6.9	6.8	6.9	6.5	6.2	6.3	8.8	8.4	8.6	9.4	8.9	9.1
11	7.0	6.7	6.8	6.8	6.2	6.5	8.9	8.6	8.7	9.1	8.8	9.0
12	7.0	6.7	6.9	7.3	6.7	7.0	8.9	8.6	8.8	9.0	8.7	8.8
13	7.1	6.8	6.9	7.3	7.0	7.2	8.8	8.5	8.6	8.8	8.5	8.7
14	7.2	6.9	7.0	7.4	7.0	7.2	8.5	8.1	8.3	8.7	8.3	8.5
15	7.3	7.0	7.2	7.4	6.6	7.0	8.2	7.9	8.0	8.6	8.2	8.4
16	7.2	7.0	7.2	7.0	6.5	6.7	8.2	7.8	8.0	8.4	7.9	8.1
17	7.1	7.0	7.0	6.5	5.9	6.2	8.4	7.9	8.1	9.0	7.9	8.3
18	7.3	6.7	7.0	6.2	5.9	6.0	8.2	7.8	8.0	9.4	8.9	9.1
19	6.8	6.4	6.6	6.2	5.6	5.8	8.2	7.6	7.9	9.6	9.1	9.3
20	6.5	6.1	6.3	6.2	5.7	6.1	8.4	7.9	8.1	10.1	9.3	9.6
21	6.5	6.2	6.3	6.4	6.1	6.2	8.4	7.9	8.2	10.3	9.9	10.1
22	6.3	5.9	6.1	7.0	6.2	6.7	8.8	8.2	8.4	10.4	10.2	10.3
23	6.0	5.4	5.6	6.2	5.9	6.1	8.8	8.3	8.6	10.6	9.9	10.2
24	6.3	5.5	5.9	6.1	5.9	6.0	8.4	7.3	7.8	10.8	10.2	10.4
25	7.6	6.3	7.0	6.1	5.9	6.0	7.5	7.0	7.2	10.8	10.3	10.6
26	7.7	7.4	7.5	6.1	5.9	6.0	7.4	6.8	7.0	11.2	10.5	10.8
27	7.8	7.4	7.6	6.8	5.9	6.3	7.7	7.0	7.3	11.2	10.8	11.0
28	7.8	7.6	7.7	6.7	6.5	6.6	8.3	7.6	7.9	11.1	10.5	10.7
29	7.7	7.3	7.5	6.6	6.3	6.4	8.8	8.1	8.4	11.3	10.5	10.8
30	7.4	6.8	7.0	6.3	6.1	6.2	9.0	8.5	8.7	11.6	10.9	11.3
31	6.9	6.3	6.6	---	---	---	8.7	8.3	8.5	11.6	11.1	11.4
Month	---	---	---	9.1	5.6	6.7	9.0	5.7	7.8	11.6	7.9	9.6

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	11.6	11.2	11.3	11.6	11.3	11.4	8.0	7.6	7.7	6.0	5.7	5.8
<b>2</b>	11.4	11.0	11.2	11.5	11.3	11.4	8.6	7.9	8.3	5.8	5.5	5.7
<b>3</b>	11.5	11.0	11.2	11.4	11.1	11.2	9.2	8.6	8.9	5.6	5.4	5.5
<b>4</b>	11.5	11.2	11.3	11.3	10.8	11.1	9.1	8.9	9.0	5.7	5.4	5.5
<b>5</b>	11.3	11.1	11.2	10.9	10.2	10.6	9.0	8.8	8.9	5.9	5.4	5.7
<b>6</b>	11.4	11.2	11.3	10.4	10.1	10.2	9.0	8.8	8.9	6.3	5.7	6.1
<b>7</b>	11.5	11.2	11.4	10.7	10.2	10.4	9.0	8.7	8.9	6.6	5.9	6.3
<b>8</b>	11.7	11.2	11.5	10.6	10.4	10.6	9.1	8.8	8.9	6.9	6.5	6.7
<b>9</b>	11.8	11.6	11.7	10.8	10.6	10.7	9.1	8.9	9.0	7.1	6.8	6.9
<b>10</b>	12.0	11.7	11.9	10.8	10.7	10.7	9.0	8.7	8.9	7.4	7.0	7.1
<b>11</b>	11.9	11.7	11.8	10.8	10.6	10.7	9.1	8.9	9.0	7.4	7.1	7.3
<b>12</b>	12.0	11.7	11.8	10.8	10.6	10.7	8.9	8.7	8.8	7.3	7.1	7.2
<b>13</b>	11.9	11.6	11.8	10.7	10.3	10.5	8.9	8.4	8.7	7.3	7.0	7.1
<b>14</b>	11.8	11.3	11.6	10.4	10.1	10.3	8.8	8.6	8.6	7.4	7.0	7.2
<b>15</b>	11.6	11.3	11.4	10.2	9.9	10.0	---	---	---	7.6	7.1	7.3
<b>16</b>	11.5	11.2	11.4	9.9	9.4	9.6	---	---	---	7.6	6.9	7.3
<b>17</b>	11.7	11.3	11.5	9.5	9.1	9.3	8.5	8.2	8.3	7.5	7.1	7.3
<b>18</b>	12.2	11.5	11.8	9.8	9.2	9.5	8.8	8.3	8.5	7.6	7.2	7.4
<b>19</b>	12.5	12.2	12.4	10.8	9.8	10.4	9.2	8.6	8.9	7.6	7.2	7.5
<b>20</b>	12.6	12.3	12.4	11.0	10.8	10.9	9.4	8.9	9.1	7.7	7.3	7.4
<b>21</b>	12.4	12.2	12.3	11.0	10.6	10.9	9.2	8.9	9.1	7.7	7.1	7.3
<b>22</b>	12.3	11.8	12.1	10.6	10.4	10.5	8.9	8.4	8.6	7.8	7.4	7.6
<b>23</b>	11.9	11.6	11.8	10.4	10.0	10.1	8.4	7.8	8.1	7.9	7.6	7.7
<b>24</b>	11.7	11.4	11.5	10.1	9.6	9.7	7.8	7.3	7.6	8.4	7.7	8.0
<b>25</b>	11.7	11.5	11.6	9.6	8.9	9.1	7.4	7.0	7.1	8.4	8.0	8.2
<b>26</b>	11.7	11.4	11.6	9.1	8.7	8.9	7.0	6.5	6.7	8.3	7.8	8.0
<b>27</b>	11.7	11.4	11.5	8.8	8.4	8.6	6.5	6.0	6.3	8.2	7.7	7.9
<b>28</b>	11.6	11.3	11.5	8.5	8.1	8.2	6.2	5.9	6.0	8.2	7.9	8.0
<b>29</b>	---	---	---	8.2	8.0	8.1	6.2	5.9	6.0	8.4	7.9	8.1
<b>30</b>	---	---	---	8.2	7.9	8.0	6.3	5.9	6.0	8.2	7.7	8.0
<b>31</b>	---	---	---	7.9	7.7	7.8	---	---	---	8.1	7.6	7.9
<b>Month</b>	12.6	11.0	11.6	11.6	7.7	10.0	---	---	---	8.4	5.4	7.1

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—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	8.0	7.6	7.8	6.6	6.2	6.4	6.5	6.0	6.2	6.5	5.9	6.1
2	7.8	7.2	7.5	6.5	5.6	6.2	6.5	6.2	6.4	6.6	6.1	6.3
3	7.5	7.2	7.4	6.6	6.1	6.4	6.7	5.8	6.5	6.4	5.9	6.2
4	7.3	6.7	7.1	6.7	6.2	6.4	6.8	5.4	6.5	6.4	6.1	6.3
5	7.2	6.7	6.9	6.8	6.3	6.5	6.7	6.2	6.5	6.4	5.9	6.2
6	7.1	6.4	6.8	6.7	6.3	6.5	6.6	5.6	6.3	6.7	6.0	6.4
7	7.0	6.4	6.8	6.7	6.3	6.5	6.6	5.8	6.2	6.9	6.2	6.5
8	7.1	6.3	6.8	6.7	6.3	6.5	6.7	5.8	6.4	6.8	6.5	6.6
9	7.2	5.6	6.7	6.7	6.2	6.5	6.6	6.2	6.4	6.7	5.8	6.4
10	6.9	6.3	6.6	6.6	6.2	6.4	6.8	6.0	6.5	6.5	6.0	6.2
11	7.0	6.0	6.6	6.4	5.9	6.3	6.3	5.9	6.2	6.7	5.7	6.2
12	7.0	5.7	6.4	6.5	6.1	6.3	6.0	5.5	5.9	6.5	5.5	6.2
13	6.9	5.9	6.4	6.4	6.1	6.2	5.9	5.4	5.6	7.0	5.9	6.2
14	6.4	6.0	6.3	6.4	6.0	6.2	6.1	5.4	5.7	6.6	5.7	6.0
15	6.8	6.2	6.5	6.4	6.0	6.2	6.1	5.3	5.8	6.7	4.9	6.0
16	7.0	6.4	6.6	6.4	5.6	6.1	6.5	5.9	6.1	6.6	6.1	6.3
17	7.0	6.4	6.7	6.5	5.8	6.2	6.5	5.8	6.3	7.3	6.4	6.6
18	6.9	6.4	6.7	6.6	6.0	6.3	6.4	6.0	6.3	7.2	6.3	6.6
19	7.1	6.5	6.8	6.5	5.8	6.1	6.5	6.1	6.3	6.9	5.7	6.5
20	7.3	6.4	7.0	6.5	5.8	6.2	6.9	5.7	6.5	6.5	5.0	6.0
21	7.1	6.6	6.9	6.5	6.0	6.2	7.0	6.2	6.5	6.8	5.3	6.0
22	6.6	6.2	6.5	6.9	6.0	6.3	6.6	5.3	6.4	6.4	5.5	6.0
23	6.5	6.2	6.3	6.8	5.7	6.2	6.6	5.9	6.1	7.4	5.6	6.2
24	6.8	6.0	6.4	6.8	5.8	6.1	6.6	5.9	6.1	7.5	5.0	6.3
25	6.6	6.1	6.5	6.8	5.1	6.1	6.4	6.0	6.2	---	---	---
26	6.8	6.3	6.5	6.4	5.9	6.2	6.4	6.2	6.3	7.1	5.8	6.3
27	6.8	6.1	6.5	6.5	6.0	6.2	6.3	5.5	6.0	7.0	5.7	6.4
28	6.9	6.2	6.5	6.8	6.2	6.5	6.0	5.6	5.8	6.6	6.2	6.4
29	6.7	6.3	6.5	---	---	---	6.1	5.7	5.9	7.0	6.3	6.6
30	6.7	6.1	6.4	---	---	---	6.3	5.9	6.1	7.5	6.5	6.9
31	---	---	---	6.5	5.6	6.0	6.5	6.1	6.3	---	---	---
Month	8.0	5.6	6.7	---	---	---	7.0	5.3	6.2	---	---	---



## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	67	61	64	59	56	57	77	73	75
2	---	---	---	64	58	62	58	54	56	79	74	76
3	---	---	---	70	58	63	61	57	59	83	75	79
4	---	---	---	82	69	76	65	60	63	89	82	86
5	---	---	---	86	80	83	67	64	66	90	86	88
6	---	---	---	86	83	85	69	67	68	89	85	87
7	79	72	76	89	85	87	68	66	67	87	81	85
8	75	71	73	89	78	86	74	67	70	84	80	82
9	78	71	75	80	64	69	76	72	74	83	79	81
10	78	76	77	66	62	64	77	74	76	84	80	82
11	79	75	77	68	62	66	78	75	76	81	77	79
12	79	75	77	73	67	71	78	75	77	78	75	77
13	80	76	78	72	68	71	77	74	75	78	74	76
14	81	77	78	73	68	71	74	71	72	77	73	75
15	81	77	79	73	65	69	72	69	71	78	73	76
16	80	77	78	70	64	67	72	69	70	76	71	73
17	78	76	77	64	59	61	74	69	71	80	71	74
18	80	73	77	61	58	60	72	68	70	82	78	80
19	75	71	73	61	55	57	73	67	70	82	78	80
20	72	68	70	60	55	59	75	70	72	86	79	82
21	72	68	70	61	59	60	73	69	71	88	84	86
22	69	64	67	66	59	64	78	72	74	88	86	87
23	65	58	60	59	55	57	78	74	77	89	83	86
24	66	58	62	57	55	56	75	65	70	91	85	88
25	78	66	73	56	54	55	67	62	65	91	86	89
26	78	75	77	57	54	56	67	62	64	93	87	90
27	79	74	77	63	55	59	69	63	66	92	89	91
28	80	77	79	63	61	62	73	68	70	92	86	88
29	78	74	76	62	59	60	77	71	73	92	86	88
30	75	68	71	60	58	59	78	74	75	94	89	92
31	70	63	66	---	---	---	76	73	74	94	89	91
Month	---	---	---	89	54	66	78	54	70	94	71	83

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	93	89	90	98	94	96	80	75	77	66	61	63
<b>2</b>	91	87	89	99	96	97	86	79	83	64	60	62
<b>3</b>	92	87	90	98	95	96	92	85	89	62	59	60
<b>4</b>	92	89	91	97	93	96	91	88	90	62	58	60
<b>5</b>	91	88	90	94	89	92	91	88	89	64	58	61
<b>6</b>	90	88	89	91	88	89	90	87	88	68	61	65
<b>7</b>	89	87	88	93	88	90	88	86	87	69	61	66
<b>8</b>	91	87	89	93	90	92	87	84	86	72	67	70
<b>9</b>	92	90	91	95	91	93	87	85	86	75	71	73
<b>10</b>	94	90	92	95	93	94	87	82	85	80	74	76
<b>11</b>	93	90	92	97	93	95	87	84	85	81	76	78
<b>12</b>	94	90	92	96	93	95	87	83	85	81	77	79
<b>13</b>	94	92	93	96	93	94	87	81	84	81	77	78
<b>14</b>	94	91	93	95	93	94	86	83	84	82	76	79
<b>15</b>	93	90	91	94	92	93	---	---	---	84	78	80
<b>16</b>	92	90	91	93	89	91	---	---	---	84	76	81
<b>17</b>	93	90	91	90	85	87	83	79	81	83	78	81
<b>18</b>	95	91	93	90	85	88	86	80	83	85	79	82
<b>19</b>	97	94	96	96	89	93	89	83	86	85	79	83
<b>20</b>	99	95	97	98	95	97	91	85	88	87	81	83
<b>21</b>	99	96	98	97	94	96	91	86	88	87	79	82
<b>22</b>	99	96	97	95	93	94	88	83	85	88	83	85
<b>23</b>	98	95	96	96	92	93	84	79	81	90	85	87
<b>24</b>	96	94	95	94	90	92	80	75	77	97	87	92
<b>25</b>	96	94	95	93	86	89	78	72	74	98	92	95
<b>26</b>	97	94	96	90	84	87	74	69	71	97	91	93
<b>27</b>	98	95	96	87	83	85	69	64	67	97	89	93
<b>28</b>	98	95	96	85	81	83	67	63	65	97	93	95
<b>29</b>	---	---	---	82	79	80	66	62	64	101	93	97
<b>30</b>	---	---	---	80	78	79	68	62	64	99	92	96
<b>31</b>	---	---	---	78	76	77	---	---	---	98	91	95
<b>Month</b>	99	87	93	99	76	91	---	---	---	101	58	80

## 02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION**  
**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>	97	91	94	85	79	83	85	77	80	85	76	79
<b>2</b>	95	88	92	83	71	79	85	80	82	85	78	80
<b>3</b>	92	87	89	85	78	81	87	75	84	82	76	80
<b>4</b>	88	81	86	86	79	82	89	70	84	82	78	80
<b>5</b>	88	81	84	87	80	84	88	80	84	82	75	80
<b>6</b>	87	78	84	86	81	84	87	73	82	86	76	82
<b>7</b>	87	79	83	86	81	84	87	76	82	89	79	83
<b>8</b>	89	78	85	87	80	84	90	77	85	87	82	84
<b>9</b>	91	70	84	88	80	84	89	82	86	85	74	82
<b>10</b>	87	79	82	87	81	84	92	81	87	83	77	80
<b>11</b>	90	75	83	85	77	82	84	78	82	86	73	80
<b>12</b>	90	72	81	86	80	84	79	72	77	84	70	80
<b>13</b>	88	75	82	85	80	82	78	71	74	90	75	79
<b>14</b>	81	76	79	83	78	80	80	70	75	84	73	76
<b>15</b>	85	78	80	83	78	80	80	69	76	85	62	76
<b>16</b>	87	79	82	83	73	79	85	77	80	83	76	79
<b>17</b>	87	79	83	84	75	80	85	76	82	91	79	82
<b>18</b>	86	79	83	86	78	82	84	78	82	89	78	81
<b>19</b>	88	81	85	84	75	79	85	80	83	84	70	79
<b>20</b>	91	80	87	85	75	81	92	75	85	79	61	72
<b>21</b>	89	83	86	85	78	81	93	82	86	83	64	73
<b>22</b>	83	77	81	90	78	82	87	70	84	78	67	73
<b>23</b>	82	77	79	89	73	80	87	77	81	92	68	76
<b>24</b>	86	75	80	89	74	79	87	77	81	93	61	77
<b>25</b>	83	77	81	88	66	79	85	79	82	---	---	---
<b>26</b>	86	79	82	83	76	80	85	82	83	87	70	77
<b>27</b>	87	78	83	84	77	81	83	72	79	85	69	77
<b>28</b>	89	79	84	88	81	84	79	73	76	81	75	78
<b>29</b>	86	81	84	---	---	---	80	74	76	86	77	80
<b>30</b>	86	78	82	---	---	---	82	76	79	92	76	84
<b>31</b>	---	---	---	85	72	78	85	79	82	---	---	---
<b>Month</b>	97	70	84	---	---	---	93	69	81	---	---	---