



Water-Data Report 2012

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 mi².

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 Records from August 1996 to September 1997 are unpublished and available from the USGS Water Science Center, Raleigh, NC.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 National Geodetic Vertical Datum 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.

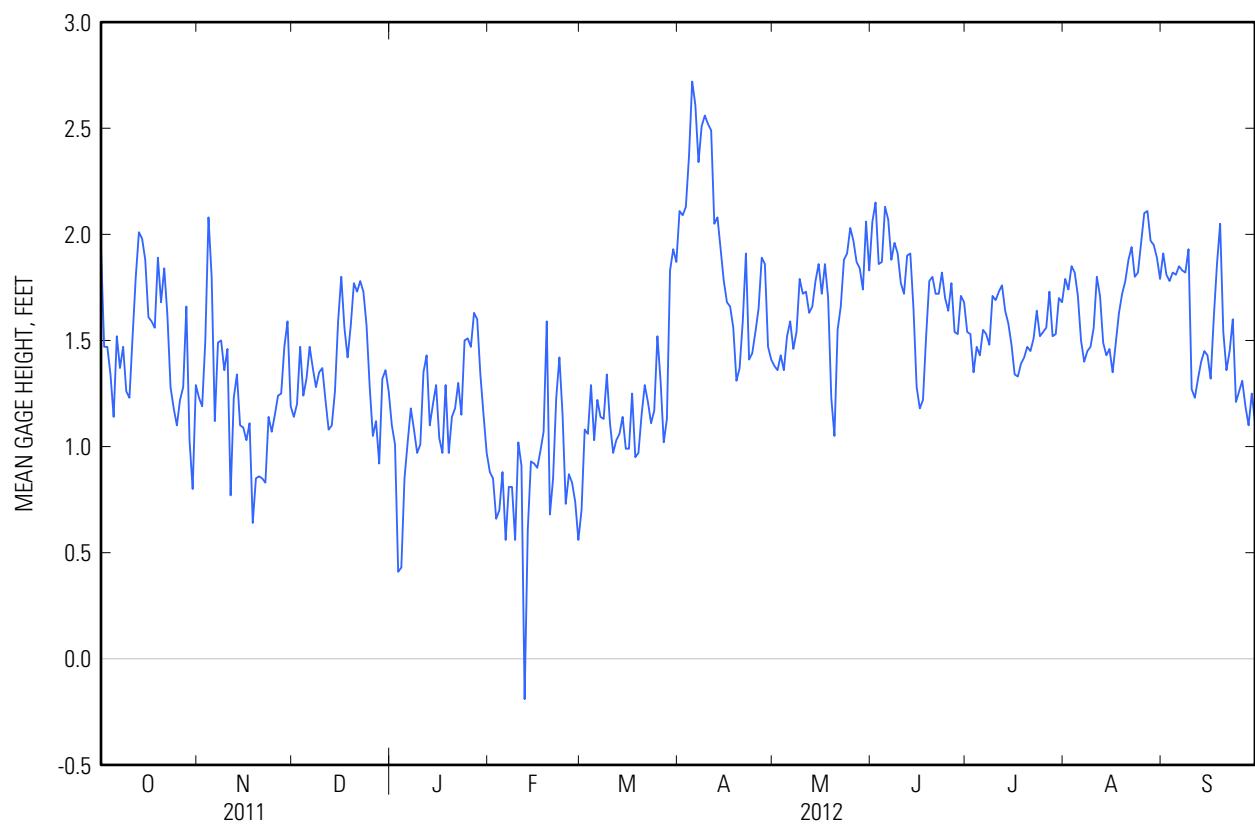
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.90 ft, April 5; minimum elevation, -0.66 ft, February 12.

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.94	1.23	1.14	1.10	0.88	0.70	2.11	1.38	2.06	1.54	1.79	1.91
2	1.47	1.19	1.20	1.01	0.85	1.08	2.09	1.36	2.15	1.53	1.74	1.81
3	1.47	1.50	1.47	0.41	0.66	1.06	2.13	1.43	1.86	1.35	1.85	1.78
4	1.34	2.08	1.24	0.43	0.70	1.29	2.37	1.36	1.87	1.47	1.82	1.82
5	1.14	1.80	1.32	0.85	0.88	1.03	2.72	1.52	2.13	1.43	1.71	1.81
6	1.52	1.12	1.47	1.02	0.56	1.22	2.61	1.59	2.07	1.55	1.50	1.85
7	1.37	1.49	1.37	1.18	0.81	1.14	2.34	1.46	1.88	1.53	1.40	1.83
8	1.47	1.50	1.28	1.08	0.81	1.13	2.51	1.54	1.96	1.48	1.45	1.82
9	1.26	1.36	1.35	0.97	0.56	1.34	2.56	1.79	1.91	1.71	1.47	1.93
10	1.23	1.46	1.37	1.01	1.02	1.11	2.52	1.72	1.77	1.69	1.56	1.27
11	1.52	0.77	1.22	1.35	0.91	0.97	2.49	1.73	1.72	1.73	1.80	1.23
12	1.80	1.23	1.08	1.43	-0.19	1.03	2.05	1.63	1.90	1.76	1.71	1.32
13	2.01	1.34	1.10	1.10	0.61	1.06	2.08	1.66	1.91	1.64	1.49	1.40
14	1.98	1.10	1.26	1.20	0.93	1.14	1.93	1.78	1.65	1.58	1.43	1.45
15	1.88	1.09	1.59	1.29	0.92	0.99	1.78	1.86	1.28	1.48	1.46	1.43
16	1.61	1.03	1.80	1.04	0.90	0.99	1.68	1.72	1.18	1.34	1.35	1.32
17	1.59	1.11	1.56	0.97	0.98	1.25	1.66	1.86	1.22	1.33	1.49	1.61
18	1.56	0.64	1.42	1.29	1.07	0.95	1.56	1.70	1.52	1.39	1.63	1.86
19	1.89	0.85	1.57	0.97	1.59	0.97	1.31	1.23	1.78	1.42	1.72	2.05
20	1.68	0.86	1.77	1.14	0.68	1.15	1.37	1.05	1.80	1.47	1.78	1.54
21	1.84	0.85	1.73	1.18	0.85	1.29	1.59	1.55	1.72	1.45	1.88	1.36
22	1.62	0.83	1.78	1.30	1.23	1.21	1.91	1.66	1.72	1.51	1.94	1.45
23	1.28	1.14	1.73	1.15	1.42	1.11	1.41	1.88	1.82	1.64	1.80	1.60
24	1.18	1.07	1.57	1.50	1.15	1.17	1.44	1.91	1.70	1.52	1.82	1.21
25	1.10	1.15	1.28	1.51	0.73	1.52	1.54	2.03	1.64	1.54	1.96	1.26
26	1.22	1.24	1.05	1.47	0.87	1.31	1.65	1.97	1.77	1.56	2.10	1.31
27	1.28	1.25	1.12	1.63	0.83	1.02	1.89	1.87	1.54	1.73	2.11	1.19
28	1.66	1.47	0.92	1.60	0.74	1.13	1.86	1.84	1.53	1.52	1.97	1.10
29	1.03	1.59	1.32	1.34	0.56	1.83	1.47	1.74	1.71	1.53	1.95	1.25
30	0.80	1.19	1.36	1.15	---	1.93	1.41	2.06	1.68	1.70	1.89	1.12
31	1.29	---	1.26	0.97	---	1.87	---	1.83	---	1.68	1.79	---
Mean	1.48	1.22	1.38	1.15	0.85	1.19	1.93	1.67	1.75	1.54	1.72	1.53
Max	2.01	2.08	1.80	1.63	1.59	1.93	2.72	2.06	2.15	1.76	2.11	2.05
Min	0.80	0.64	0.92	0.41	-0.19	0.70	1.31	1.05	1.18	1.33	1.35	1.10

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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 (NCDENR), Division of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,430 microsiemens, August 27, 2011; minimum recorded, 36 microsiemens, September 19, 20, 21, 1999.

pH: Maximum recorded, 7.7 standard units, June 14, 15, 16, 17, 2002, October 5, 2007; minimum recorded, 5.6 standard units, May 3, 1998, September 18, 19, 1999

WATER TEMPERATURE: Maximum recorded, 32.2°C, July 25, 26, 2010; minimum recorded, 1.8°C, January 11, 2010.

DISSOLVED OXYGEN: Maximum recorded, 14.3 mg/L, January 8, 1999; minimum recorded, <1.0 mg/L, on several days during the period.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 118%, October 5, 2007; minimum recorded, <10%, on several days during the period.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 148 microsiemens, October 31; minimum recorded, 73 microsiemens, August 30.

pH: Maximum recorded, 7.5 standard units, July 8; minimum recorded, 6.4 standard units, August 30, 31.

WATER TEMPERATURE: Maximum recorded, 31.6°C, July 9; minimum recorded, 7.4°C, February 15.

DISSOLVED OXYGEN: Maximum recorded, 11.3 mg/L, February 16, 17, 18; minimum recorded, 3.8, October 1.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 112%, July 8; minimum recorded, 45, October 1, 3.

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
October				November				December				January
1	116	108	111	147	133	142	129	120	125	126	121	123
2	118	110	114	139	131	135	131	120	124	126	121	123
3	119	109	112	136	130	133	128	122	126	128	120	122
4	122	114	119	139	130	135	127	119	123	130	121	125
5	120	112	114	139	135	137	121	119	120	127	120	123
6	127	120	124	135	125	127	124	119	121	124	120	122
7	131	124	128	133	126	129	131	120	127	124	120	122
8	133	124	129	138	129	134	126	119	121	126	121	123
9	133	126	131	138	130	134	121	119	120	124	120	122
10	130	125	127	135	125	131	126	121	124	126	120	122
11	131	124	127	134	124	130	125	118	121	126	121	123
12	131	122	126	135	133	134	124	119	121	124	119	121
13	131	124	127	137	134	136	125	119	122	125	120	122
14	137	129	133	135	124	128	125	119	122	125	120	122
15	132	129	131	129	125	126	123	119	121	123	119	121
16	129	123	126	133	125	130	120	118	118	123	119	121
17	127	120	122	137	133	136	119	118	119	124	118	120
18	126	121	124	133	126	128	120	118	119	124	119	121
19	126	124	125	135	130	132	119	118	119	122	118	120
20	128	124	126	141	130	137	120	117	119	123	117	119
21	134	127	131	142	141	141	121	117	119	124	119	121
22	135	128	132	143	141	142	121	117	119	123	119	121
23	134	127	130	142	137	139	123	118	121	123	118	120
24	135	133	135	138	122	134	125	119	121	123	118	120
25	138	135	136	124	119	121	124	119	121	123	118	120
26	138	137	137	124	120	122	122	118	120	123	118	120
27	140	137	139	127	120	123	124	119	122	124	119	121
28	141	139	140	130	122	124	122	118	120	123	118	120
29	141	138	139	137	125	132	131	119	128	124	117	120
30	146	141	143	131	121	123	131	122	128	122	118	120
31	148	145	147	---	---	---	128	121	124	121	116	118
Month	148	108	129	147	119	132	131	117	122	130	116	121

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	120	116	118	128	126	127	116	115	116	123	122	123
2	123	118	121	129	127	128	116	114	115	125	123	124
3	122	118	120	129	127	128	115	113	114	126	125	126
4	123	118	120	127	120	124	114	112	113	127	125	126
5	123	118	121	120	117	119	113	112	112	127	126	127
6	124	117	121	124	118	120	113	112	113	128	126	127
7	123	117	119	121	118	120	113	112	112	128	126	127
8	123	118	121	119	115	117	113	112	112	128	127	127
9	120	116	118	115	112	113	113	112	113	128	122	125
10	125	120	122	116	113	114	115	113	114	123	121	122
11	127	124	125	116	113	115	116	114	115	123	121	122
12	127	125	126	121	113	116	116	115	115	122	120	121
13	128	126	127	123	120	121	118	116	116	121	117	118
14	128	127	128	125	122	124	118	117	117	117	114	116
15	129	127	128	125	122	124	119	118	118	117	114	115
16	129	127	128	125	123	124	120	119	119	118	116	117
17	129	127	128	126	124	125	121	120	120	119	117	118
18	129	127	128	127	125	126	122	120	121	120	119	119
19	129	126	128	129	119	127	123	121	122	121	118	119
20	128	123	126	130	119	129	124	122	123	119	117	118
21	124	118	120	132	120	129	124	122	123	119	117	118
22	124	119	121	131	126	130	124	123	123	120	117	119
23	128	123	125	131	124	130	123	122	123	119	118	119
24	128	125	126	133	122	130	123	121	122	119	117	118
25	127	123	124	132	130	131	122	121	122	119	117	118
26	126	123	124	131	126	128	122	121	121	119	117	118
27	124	117	120	128	124	126	121	120	121	119	118	119
28	125	122	124	126	118	123	122	120	121	120	119	120
29	127	124	126	124	121	123	123	121	122	120	118	119
30	---	---	---	124	117	119	123	121	122	120	118	119
31	---	---	---	118	116	117	---	---	---	120	115	118
Month	129	116	124	133	112	123	124	112	118	128	114	121

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	118	116	117	132	130	131	132	122	127	105	98	103
2	119	117	118	132	130	131	129	123	127	113	100	106
3	118	115	117	131	130	131	138	124	131	114	101	110
4	116	114	115	131	130	130	138	135	136	114	104	110
5	115	106	111	131	130	131	135	130	132	113	104	109
6	106	104	105	133	130	131	134	127	130	108	100	103
7	109	104	106	135	131	133	135	124	129	121	102	111
8	115	108	111	134	124	129	130	120	125	122	119	121
9	116	112	114	132	127	130	133	122	129	122	111	118
10	118	115	116	133	128	131	136	127	131	119	110	115
11	119	117	118	133	124	128	138	132	135	120	111	116
12	120	118	119	134	124	130	135	122	128	121	111	115
13	121	119	120	133	124	131	131	124	127	120	114	116
14	124	120	121	128	120	123	131	126	129	124	119	122
15	123	121	122	128	123	125	131	123	126	125	122	123
16	124	122	123	132	125	129	127	118	122	126	121	124
17	127	123	124	132	124	129	126	122	124	125	119	121
18	125	123	124	134	125	129	131	125	128	127	121	125
19	125	124	125	140	131	135	131	122	127	130	119	124
20	127	124	125	140	138	139	129	120	126	134	124	131
21	129	125	127	139	127	135	129	119	124	134	117	127
22	131	128	130	131	124	129	128	120	122	129	116	122
23	131	128	130	128	121	123	130	120	125	128	117	121
24	128	122	125	132	121	128	128	121	125	125	117	121
25	126	120	123	137	125	132	121	112	115	125	119	123
26	126	121	124	137	125	133	129	117	124	124	119	120
27	127	119	123	125	114	116	127	111	120	141	124	136
28	127	120	123	127	115	122	111	83	89	144	131	139
29	128	121	125	130	118	125	87	81	85	144	123	136
30	131	128	130	131	120	125	81	73	76	136	122	128
31	---	---	---	128	122	124	102	79	92	---	---	---
Month	131	104	120	140	114	129	138	73	121	144	98	120

	Max	Min	Mean
Year	148	73	123

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02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median	
October				November				December				January	
1	6.7	6.6	6.6	7.2	7.1	7.1	7.2	7.2	7.2	7.2	7.2	7.2	
2	6.6	6.6	6.6	7.3	7.1	7.1	7.3	7.2	7.2	7.2	7.1	7.1	
3	6.6	6.6	6.6	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.2	
4	6.6	6.6	6.6	7.3	7.3	7.3	7.3	7.2	7.3	7.3	7.2	7.2	
5	6.6	6.6	6.6	7.3	7.2	7.2	7.2	7.1	7.2	7.3	7.3	7.3	
6	6.8	6.6	6.6	7.2	7.2	7.2	7.2	7.1	7.2	7.3	7.2	7.3	
7	6.7	6.6	6.7	7.2	7.2	7.2	7.3	7.2	7.3	7.2	7.2	7.2	
8	6.7	6.7	6.7	7.2	7.1	7.2	7.3	7.2	7.2	7.2	7.2	7.2	
9	6.8	6.7	6.7	7.2	7.1	7.1	7.3	7.2	7.3	7.2	7.1	7.1	
10	6.8	6.7	6.8	7.1	7.1	7.1	7.3	7.3	7.3	7.2	7.1	7.1	
11	6.8	6.8	6.8	7.1	7.0	7.1	7.3	7.3	7.3	7.2	7.2	7.2	
12	6.8	6.7	6.8	7.1	7.0	7.1	7.3	7.3	7.3	7.2	7.1	7.2	
13	7.0	6.8	6.9	7.2	7.1	7.1	7.3	7.3	7.3	7.2	7.2	7.2	
14	7.0	6.9	7.0	7.2	7.2	7.2	7.4	7.3	7.3	7.2	7.2	7.2	
15	7.0	7.0	7.0	7.2	7.1	7.1	7.3	7.3	7.3	7.2	7.2	7.2	
16	7.0	6.9	7.0	7.2	7.1	7.1	7.3	7.3	7.3	7.2	7.2	7.2	
17	7.0	6.9	7.0	7.2	7.1	7.1	7.3	7.1	7.2	7.2	7.1	7.2	
18	7.0	6.9	6.9	7.1	7.1	7.1	7.1	7.1	7.1	7.2	7.2	7.2	
19	7.0	6.9	6.9	7.1	7.1	7.1	7.1	6.9	7.0	7.2	7.1	7.2	
20	7.0	6.9	6.9	7.1	7.1	7.1	6.9	6.8	6.9	7.2	7.1	7.2	
21	7.0	6.9	6.9	7.1	7.1	7.1	6.9	6.8	6.8	7.2	7.2	7.2	
22	7.0	6.9	6.9	7.1	7.1	7.1	6.8	6.8	6.8	7.2	7.2	7.2	
23	7.0	6.9	6.9	7.2	7.1	7.2	6.9	6.8	6.8	7.2	7.2	7.2	
24	6.9	6.9	6.9	7.2	7.2	7.2	6.9	6.9	6.9	7.2	7.2	7.2	
25	7.0	6.9	6.9	7.2	7.2	7.2	6.9	6.8	6.9	7.2	7.2	7.2	
26	7.0	6.9	6.9	7.2	7.2	7.2	6.8	6.8	6.8	7.2	7.2	7.2	
27	6.9	6.9	6.9	7.2	7.1	7.1	6.8	6.8	6.8	7.2	7.2	7.2	
28	7.0	6.9	7.0	7.2	7.1	7.2	6.9	6.8	6.8	7.2	7.2	7.2	
29	7.1	7.0	7.0	7.3	7.2	7.2	7.1	6.9	7.0	7.2	7.1	7.2	
30	7.1	7.1	7.1	7.2	7.2	7.2	7.2	7.0	7.1	7.2	7.0	7.1	
31	7.2	7.1	7.1	---	---	---	7.2	7.1	7.2	7.0	7.0	7.0	
Max	7.2	7.1	7.1	7.3	7.3	7.3	7.4	7.3	7.3	7.3	7.3	7.3	
Min	6.6	6.6	6.6	7.1	7.0	7.1	6.8	6.8	6.8	7.0	7.0	7.0	

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median	
February				March				April				May	
1	7.0	7.0	7.0	7.1	7.0	7.1	7.1	7.0	7.0	7.1	7.0	7.0	
2	7.1	7.0	7.0	7.1	7.0	7.1	7.0	6.9	7.0	7.1	7.1	7.1	
3	7.1	7.1	7.1	7.1	7.0	7.1	6.9	6.8	6.9	7.1	7.0	7.1	
4	7.1	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.8	7.1	7.0	7.1	
5	7.1	7.1	7.1	6.9	6.9	6.9	6.9	6.7	6.9	7.1	7.1	7.1	
6	7.1	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.8	7.2	7.1	7.1	
7	7.0	7.0	7.0	6.9	6.9	6.9	6.8	6.8	6.8	7.2	7.1	7.1	
8	7.1	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.8	7.2	7.1	7.1	
9	7.1	7.0	7.1	6.8	6.7	6.8	6.8	6.8	6.8	7.2	7.0	7.1	
10	7.1	7.1	7.1	6.8	6.8	6.8	6.8	6.8	6.8	7.2	7.1	7.1	
11	7.1	7.0	7.1	6.8	6.8	6.8	6.9	6.8	6.8	7.2	7.1	7.1	
12	7.1	7.0	7.1	6.9	6.8	6.8	6.9	6.8	6.9	7.1	7.1	7.1	
13	7.2	7.1	7.1	6.9	6.8	6.9	6.9	6.9	6.9	7.1	7.0	7.0	
14	7.2	7.1	7.2	7.0	6.9	6.9	6.9	6.9	6.9	7.0	7.0	7.0	
15	7.2	7.1	7.2	7.0	6.9	6.9	7.0	6.9	6.9	7.1	7.0	7.0	
16	7.2	7.2	7.2	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.0	
17	7.2	7.1	7.2	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.0	
18	7.2	7.1	7.2	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.1	
19	7.2	7.2	7.2	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.1	
20	7.2	7.1	7.1	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.1	7.1	
21	7.1	7.1	7.1	7.0	6.9	6.9	7.1	7.0	7.1	7.1	7.1	7.1	
22	7.1	7.1	7.1	7.0	6.9	6.9	7.1	7.1	7.1	7.2	7.1	7.1	
23	7.1	7.0	7.1	7.0	6.9	6.9	7.1	7.0	7.1	7.2	7.1	7.1	
24	7.1	7.0	7.1	7.0	6.9	6.9	7.1	7.1	7.1	7.2	7.0	7.1	
25	7.1	7.0	7.0	7.0	6.9	6.9	7.1	7.1	7.1	7.1	7.0	7.1	
26	7.1	7.0	7.1	7.0	6.9	6.9	7.1	7.0	7.1	7.1	7.0	7.1	
27	7.1	7.0	7.0	7.0	6.8	6.9	7.1	7.0	7.1	7.1	7.0	7.1	
28	7.1	7.0	7.0	6.9	6.8	6.9	7.1	7.1	7.1	7.1	7.0	7.0	
29	7.1	7.0	7.0	7.0	6.8	7.0	7.1	7.0	7.1	7.0	7.0	7.0	
30	---	---	---	7.1	7.0	7.0	7.1	7.0	7.0	7.1	7.0	7.0	
31	---	---	---	7.1	7.0	7.0	---	---	---	7.1	6.9	6.9	
Max	7.2	7.2	7.2	7.1	7.0	7.1	7.1	7.1	7.1	7.2	7.1	7.1	
Min	7.0	7.0	7.0	6.8	6.7	6.8	6.8	6.7	6.8	7.0	6.9	6.9	

Water-Data Report 2012

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
				June			July			August		
1	7.0	6.9	6.9	7.2	7.2	7.2	7.0	7.0	7.0	6.7	6.6	6.6
2	7.0	7.0	7.0	7.3	7.1	7.2	7.0	6.9	7.0	6.8	6.7	6.8
3	7.0	6.9	6.9	7.3	7.1	7.2	7.1	7.0	7.0	6.8	6.8	6.8
4	7.0	6.9	7.0	7.3	7.2	7.2	7.1	7.0	7.1	6.8	6.6	6.7
5	7.0	6.8	6.9	7.3	7.2	7.2	7.1	7.0	7.1	6.7	6.6	6.7
6	6.8	6.8	6.8	7.3	7.2	7.2	7.1	7.0	7.1	6.9	6.6	6.7
7	6.9	6.8	6.8	7.3	7.2	7.2	7.1	6.8	7.0	7.0	6.9	6.9
8	7.0	6.9	6.9	7.5	7.2	7.3	7.0	6.7	6.9	7.0	7.0	7.0
9	7.0	6.9	7.0	7.3	7.2	7.3	7.1	6.9	7.0	7.0	7.0	7.0
10	7.0	6.9	7.0	7.3	7.1	7.2	7.1	7.0	7.1	7.0	7.0	7.0
11	7.0	7.0	7.0	7.2	7.1	7.1	7.1	7.0	7.0	7.0	7.0	7.0
12	7.1	7.0	7.0	7.2	6.9	7.1	7.1	6.8	7.0	7.0	7.0	7.0
13	7.1	7.0	7.0	6.9	6.9	6.9	7.0	6.8	6.9	7.0	7.0	7.0
14	7.1	7.0	7.0	7.0	6.9	6.9	7.0	6.9	6.9	7.1	7.0	7.0
15	7.1	7.0	7.1	7.0	6.9	6.9	7.0	7.0	7.0	7.1	7.0	7.0
16	7.1	7.0	7.1	7.0	6.9	6.9	7.0	6.9	6.9	7.1	7.1	7.1
17	7.2	7.1	7.1	7.0	6.9	6.9	6.9	6.8	6.9	7.1	7.0	7.1
18	7.2	7.1	7.1	7.0	6.9	6.9	7.0	6.9	7.0	7.1	7.0	7.1
19	7.2	7.1	7.1	7.1	7.0	7.0	7.1	7.0	7.0	7.2	7.1	7.1
20	7.1	7.1	7.1	7.1	7.0	7.0	7.0	6.9	7.0	7.2	7.1	7.2
21	7.2	7.1	7.1	7.0	7.0	7.0	6.9	6.8	6.9	7.2	7.2	7.2
22	7.2	7.1	7.2	7.0	6.9	7.0	7.0	6.9	7.0	7.2	7.1	7.1
23	7.2	7.1	7.2	7.0	6.9	6.9	7.0	6.9	6.9	7.2	7.1	7.1
24	7.2	7.1	7.1	7.0	6.9	7.0	6.9	6.8	6.9	7.1	7.1	7.1
25	7.2	7.1	7.1	7.0	7.0	7.0	6.8	6.8	6.8	7.2	7.1	7.2
26	7.2	7.1	7.2	7.0	6.9	7.0	7.0	6.8	7.0	7.2	7.2	7.2
27	7.2	7.1	7.2	6.9	6.8	6.8	7.0	6.8	7.0	7.3	7.2	7.2
28	7.3	7.2	7.2	7.0	6.8	6.9	6.8	6.6	6.7	7.3	7.2	7.2
29	7.2	7.1	7.2	7.0	6.9	7.0	6.6	6.5	6.6	7.3	7.2	7.2
30	7.2	7.1	7.2	7.0	6.9	7.0	6.5	6.4	6.4	7.3	7.2	7.2
31	---	---	---	7.1	6.9	7.0	6.6	6.4	6.5	---	---	---
Max	7.3	7.2	7.2	7.5	7.2	7.3	7.1	7.0	7.1	7.3	7.2	7.2
Min	6.8	6.8	6.8	6.9	6.8	6.8	6.5	6.4	6.4	6.7	6.6	6.6

	Max	Min	Median
Year Maximum	7.5	7.3	7.3
Year Minimum	6.5	6.4	6.4

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	
October				November				December				January	
1	24.5	23.1	23.7	15.8	15.3	15.6	13.8	13.0	13.4	10.2	9.8	10.0	
2	23.1	22.0	22.5	15.3	14.8	15.0	13.0	12.4	12.8	10.2	9.7	10	
3	22.0	21.4	21.5	14.8	14.1	14.3	12.4	12.1	12.2	9.7	9.1	9.5	
4	21.5	20.7	21.0	14.4	13.9	14.1	12.5	11.8	12.2	9.1	8.6	8.8	
5	20.7	20.3	20.5	14.0	13.7	13.8	12.4	12.2	12.3	8.7	8.3	8.5	
6	20.4	20.0	20.2	14.3	13.9	14.1	12.9	12.1	12.5	8.5	8.2	8.3	
7	20.4	19.7	19.9	14.2	14.0	14.1	13.6	12.6	12.9	8.4	8.0	8.2	
8	20.0	19.4	19.7	14.1	13.9	14.0	13.6	13.2	13.3	8.8	8.4	8.6	
9	20.0	19.5	19.7	14.2	14.0	14.1	13.3	13.0	13.2	8.8	8.4	8.5	
10	20.1	19.8	20.0	14.5	14.2	14.3	13.1	12.9	13.0	9.0	8.5	8.8	
11	20.3	20.1	20.2	14.4	13.9	14.1	12.9	11.9	12.2	9.4	9.0	9.2	
12	20.4	20.1	20.2	14.1	13.7	13.8	11.9	11.6	11.7	9.5	9.2	9.3	
13	20.8	20.2	20.5	14.0	13.6	13.8	11.7	11.4	11.6	9.5	9.3	9.4	
14	21.0	20.5	20.7	14.4	13.9	14.1	11.4	11.1	11.2	9.4	8.9	9.1	
15	20.9	20.5	20.7	14.4	14.2	14.3	11.3	10.8	11.1	9.0	8.5	8.7	
16	20.8	20.1	20.5	14.8	14.4	14.6	11.6	11.2	11.4	8.5	7.8	8.0	
17	20.7	20.2	20.5	14.9	14.5	14.8	11.8	11.5	11.7	8.1	7.8	7.9	
18	20.9	20.4	20.6	14.5	14.2	14.3	11.5	11.0	11.3	8.3	8.1	8.2	
19	21.3	20.7	20.8	14.2	13.8	14.0	11.0	10.4	10.6	8.2	7.9	8.0	
20	20.9	20.0	20.4	14.6	14.2	14.4	10.4	10.0	10.2	8.3	8.0	8.1	
21	20.1	19.6	19.8	14.9	14.6	14.8	10.7	10.2	10.3	8.7	8.2	8.4	
22	19.7	19.4	19.5	14.8	14.3	14.6	11.4	10.7	11.0	8.5	8.0	8.2	
23	19.4	19.0	19.1	14.6	14.0	14.2	11.9	11.4	11.7	8.5	8.2	8.3	
24	19.1	18.9	19.0	15.4	14.5	15.0	12.0	11.6	11.9	8.6	8.5	8.6	
25	19.0	18.6	18.8	14.5	14.0	14.2	11.6	11.3	11.5	8.5	8.3	8.4	
26	18.6	18.2	18.3	14.0	13.8	13.9	11.3	10.8	11.1	8.7	8.4	8.5	
27	18.2	18.0	18.1	14.0	13.6	13.8	10.8	10.6	10.7	9.3	8.7	9.1	
28	18.0	17.1	17.6	14.0	13.7	13.9	10.6	10.1	10.4	9.2	8.9	9.0	
29	17.1	16.7	17.0	13.9	13.7	13.8	10.1	9.8	9.9	9.2	8.9	9.1	
30	16.7	16.3	16.4	14.2	13.8	14.0	10.1	9.7	9.9	9.3	9.0	9.2	
31	16.3	15.8	16.0	---	---	---	10.3	10.1	10.2	9.4	8.8	9.1	
Month	24.5	15.8	19.8	15.8	13.6	14.3	13.8	9.7	11.6	10.2	7.8	8.7	

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	9.5	8.9	9.2	12.5	11.7	12.1	17.1	16.5	16.8	18.7	17.6	18.1
2	10.1	9.5	9.8	12.4	12.0	12.2	17.0	16.7	16.9	19.8	18.5	19.1
3	10.3	9.6	10	12.7	12.3	12.5	16.9	16.2	16.5	21.2	19.6	20.3
4	10.2	9.7	10	12.8	12.6	12.7	17.6	16.4	16.9	21.7	20.7	21.2
5	10.3	9.9	10.1	12.7	12.0	12.4	17.5	16.4	17.0	22.8	21.4	21.9
6	9.9	9.6	9.7	12.0	11.5	11.8	16.4	15.5	15.9	22.8	22.4	22.6
7	9.6	9.2	9.4	11.6	11.2	11.3	15.9	15.0	15.4	22.7	22.2	22.4
8	9.6	9.1	9.2	11.7	10.9	11.3	15.9	14.8	15.3	22.3	21.4	21.8
9	9.3	9.0	9.2	11.7	11.6	11.6	16.4	15.2	15.8	22.8	22.3	22.5
10	9.2	8.8	8.9	11.9	11.3	11.6	16.2	15.6	15.9	22.5	21.6	22.0
11	8.9	8.4	8.8	12.2	11.3	11.7	16.2	15.5	15.8	22.1	21.3	21.7
12	8.4	7.8	8.0	12.9	11.8	12.3	15.5	14.7	15.1	21.8	21.0	21.4
13	8.0	7.6	7.8	13.5	12.7	13.1	15.4	14.8	15.1	21.4	20.9	21.2
14	7.8	7.5	7.7	14.3	13.4	13.8	15.7	15.0	15.3	21.8	21.1	21.4
15	7.8	7.4	7.6	15.0	13.9	14.4	16.6	15.6	16.0	21.7	21.3	21.5
16	7.8	7.6	7.7	16.1	14.7	15.3	17.6	16.6	17.1	21.9	21.2	21.5
17	8.4	7.8	8.1	17.0	15.9	16.3	18.4	17.5	18.0	22.3	21.7	22.0
18	9.2	8.2	8.7	17.4	16.8	17.1	19.0	18.3	18.7	22.4	21.8	22.1
19	9.3	9.1	9.2	18.1	17.1	17.5	18.7	18.3	18.6	22.5	21.6	22.0
20	9.5	9.1	9.3	18.2	17.5	17.9	19.0	18.2	18.6	22.3	21.8	22.0
21	9.3	9.1	9.2	18.3	17.5	17.9	19.0	18.5	18.7	22.3	21.5	21.9
22	9.8	8.9	9.3	18.2	17.6	17.9	18.7	18.1	18.5	22.8	21.6	22.2
23	10.4	9.6	10.0	18.3	17.4	17.9	18.2	17.7	18.0	23.0	22.0	22.4
24	11.1	10.2	10.6	18.8	17.9	18.3	17.8	17.3	17.6	23.1	22.2	22.7
25	11.0	10.6	10.8	19.0	18.5	18.7	17.3	16.7	17.0	23.6	22.6	23.1
26	11.0	10.5	10.7	18.9	18.2	18.6	17.1	16.8	16.9	23.9	23.0	23.4
27	11.2	10.7	10.9	18.3	17.3	17.8	18.0	17.1	17.5	24.3	23.5	23.9
28	11.8	11.0	11.4	17.3	16.4	16.8	17.8	17.3	17.5	24.9	24.0	24.4
29	11.9	11.3	11.6	17.8	16.6	17.2	17.7	17.0	17.4	25.4	24.4	24.9
30	---	---	---	17.8	16.8	17.2	17.9	17.0	17.5	25.4	24.6	24.9
31	---	---	---	17.1	16.5	16.9	---	---	---	24.8	24.2	24.5
Month	11.9	7.4	9.4	19.0	10.9	15.0	19.0	14.7	16.9	25.4	17.6	22.2

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	25.0	24.5	24.7	29.2	28.5	28.7	30.6	29.9	30.4	27.4	26.6	27.0
2	25.3	24.7	25.0	29.4	28.5	28.7	29.9	29.4	29.6	27.8	27.2	27.5
3	25.2	24.3	24.6	29.8	28.9	29.3	29.9	29.2	29.5	27.6	27.5	27.6
4	25.6	24.4	24.9	30.5	29.8	30.1	29.8	29.4	29.6	27.5	27.1	27.3
5	25.0	23.6	24.3	31.1	30.2	30.6	29.8	29.0	29.4	27.7	26.9	27.3
6	23.9	23.0	23.5	31.3	30.6	30.9	29.9	29.4	29.7	27.8	27.3	27.6
7	23.9	23.3	23.6	31.1	30.7	30.9	30.0	29.2	29.6	28.3	27.5	27.9
8	24.3	23.6	23.9	31.3	31.0	31.1	29.3	28.9	29.1	28.3	27.9	28.1
9	24.5	23.9	24.2	31.6	31.0	31.2	30.1	29.1	29.6	28.1	27.3	27.7
10	24.7	24.1	24.4	31.1	30.6	30.7	30.0	29.6	29.7	27.3	26.8	27.0
11	25.1	24.6	24.9	30.7	30.1	30.4	29.8	28.8	29.1	26.8	26.3	26.6
12	25.6	24.9	25.3	30.1	29.5	29.7	28.8	28.2	28.5	26.5	25.8	26.1
13	26.2	25.4	25.8	29.5	28.5	28.9	28.6	28.0	28.3	26.1	25.4	25.6
14	25.8	25.1	25.4	29.2	28.4	28.7	28.8	28.4	28.6	25.5	25.1	25.3
15	25.6	25.0	25.3	29.0	28.4	28.7	28.9	28.6	28.8	25.3	24.8	25.1
16	25.1	24.4	24.8	29.2	28.6	28.8	28.7	28.1	28.4	25.2	24.8	25.0
17	25.1	24.4	24.7	29.8	28.6	29.0	29.1	28.3	28.7	25.2	24.9	25.0
18	25.4	24.4	24.9	30.5	29.4	29.9	29.5	28.9	29.2	25.1	24.8	25.0
19	25.4	24.7	25.1	31.2	30.3	30.7	29.2	28.4	28.8	25.1	24.5	24.8
20	25.9	25.4	25.6	30.9	30.5	30.7	28.4	28.1	28.2	24.5	23.9	24.1
21	26.7	25.8	26.3	30.9	29.9	30.4	28.2	27.9	28.0	24.6	23.8	24.2
22	27.4	26.6	26.9	30.3	29.8	30.0	28.0	27.5	27.7	24.3	23.9	24.1
23	27.7	26.9	27.3	30.0	29.6	29.8	27.7	26.9	27.3	24.2	23.9	24.1
24	28.1	27.4	27.8	30.4	29.5	29.9	26.9	26.0	26.4	24.0	23.6	23.8
25	28.1	27.3	27.6	30.2	29.5	29.9	26.6	25.8	26.1	24.2	23.5	23.7
26	27.7	27.4	27.6	30.2	29.5	29.9	27.0	26.6	26.8	24.0	23.4	23.7
27	27.7	27.0	27.4	30.2	29.4	29.8	26.8	25.8	26.4	24.2	23.6	23.8
28	27.8	27.3	27.6	30.9	29.8	30.3	25.8	24.2	24.7	24.0	23.2	23.6
29	28.6	27.6	28.0	31.4	30.3	30.9	25.3	24.7	25.0	23.7	23.4	23.5
30	28.8	28.2	28.4	31.3	30.8	30.9	25.5	24.8	25.2	23.7	23.1	23.4
31	---	---	---	31.0	30.5	30.7	26.8	25.5	26.1	---	---	---
Month	28.8	23.0	25.7	31.6	28.4	30.0	30.6	24.2	28.1	28.3	23.1	25.5

	Max	Min	Mean
Year	31.6	7.4	19.0

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	
October				November				December				January	
1	4.8	3.8	4.2	8.4	8.1	8.2	9.0	8.9	9.0	10.1	9.9	10.1	
2	4.5	4.0	4.2	8.7	8.3	8.5	9.4	9.0	9.1	10.0	9.8	9.9	
3	4.8	4.0	4.4	8.9	8.6	8.8	9.6	9.3	9.5	10.1	9.9	10.0	
4	4.8	4.2	4.6	9.0	8.7	8.9	9.6	9.4	9.4	10.5	10.0	10.3	
5	5.0	4.5	4.7	9.0	8.6	8.8	9.4	9.2	9.3	10.7	10.4	10.5	
6	5.0	4.7	4.8	8.7	8.5	8.6	9.6	9.2	9.4	10.8	10.5	10.6	
7	5.3	4.6	5.0	8.7	8.5	8.6	9.7	9.3	9.6	10.9	10.7	10.8	
8	5.6	4.9	5.2	8.6	8.5	8.6	9.4	9.1	9.2	10.9	10.6	10.7	
9	5.7	5.2	5.5	8.6	8.4	8.5	9.3	9.1	9.2	10.7	10.4	10.5	
10	5.6	5.2	5.5	8.5	8.3	8.4	9.4	9.2	9.3	10.6	10.4	10.5	
11	5.7	5.3	5.5	8.6	8.3	8.5	9.5	9.2	9.4	10.6	10.4	10.5	
12	5.8	5.1	5.5	8.6	8.3	8.4	9.6	9.4	9.5	10.4	10.2	10.3	
13	6.3	5.4	5.9	8.7	8.4	8.5	9.8	9.5	9.6	10.4	10.2	10.3	
14	6.5	6.0	6.2	8.8	8.6	8.7	10.0	9.7	9.8	10.4	10.3	10.4	
15	6.6	6.1	6.4	8.8	8.5	8.6	9.8	9.5	9.7	10.6	10.3	10.4	
16	6.5	5.9	6.2	8.7	8.4	8.5	9.5	9.3	9.4	10.6	10.5	10.6	
17	6.3	5.8	6.1	8.6	8.3	8.4	9.3	9.1	9.2	10.9	10.6	10.8	
18	6.3	5.5	5.9	8.6	8.3	8.4	9.2	9.1	9.1	11.0	10.8	10.9	
19	6.3	5.1	5.7	8.4	8.3	8.4	9.1	8.8	9.0	11.0	10.7	10.8	
20	6.4	4.9	5.7	8.4	8.1	8.2	8.9	8.6	8.7	10.8	10.7	10.8	
21	6.4	5.0	5.9	8.2	8.0	8.1	8.8	8.5	8.6	10.9	10.7	10.8	
22	7.1	6.1	6.6	8.5	8.0	8.2	8.6	8.4	8.5	11.0	10.8	10.9	
23	7.2	6.4	6.7	9.2	8.5	8.9	8.7	8.4	8.5	11.0	10.9	10.9	
24	6.8	6.2	6.6	9.1	8.6	8.8	8.7	8.4	8.6	11.0	10.8	10.9	
25	6.8	6.5	6.7	8.9	8.7	8.8	8.7	8.4	8.6	11.0	10.8	10.9	
26	7.0	6.3	6.8	8.8	8.7	8.7	8.5	8.3	8.3	11.0	10.8	10.9	
27	7.0	6.6	6.9	8.7	8.5	8.6	8.5	8.2	8.2	11.0	10.7	10.8	
28	7.5	7.0	7.3	9.0	8.7	8.9	9.0	8.3	8.6	10.8	10.6	10.7	
29	7.8	7.2	7.5	9.2	9.0	9.1	9.6	9.0	9.3	10.8	10.6	10.7	
30	8.1	7.8	7.9	9.0	8.8	8.9	9.8	9.5	9.7	10.7	10.2	10.5	
31	8.2	8.0	8.1	---	---	---	10.1	9.8	9.9	10.3	10.2	10.3	
Month	8.2	3.8	5.9	9.2	8.0	8.6	10.1	8.2	9.1	11.0	9.8	10.6	

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	10.6	10.3	10.4	10.0	9.5	9.8	8.2	7.7	8.0	8.4	7.6	8.1
2	10.6	10.4	10.5	10.0	9.4	9.9	7.8	7.4	7.6	8.3	8.0	8.1
3	10.6	10.4	10.5	10.0	9.7	9.8	7.6	7.2	7.5	8.2	7.7	7.9
4	10.6	10.4	10.6	9.7	9.0	9.4	7.4	6.9	7.1	8.0	7.6	7.8
5	10.6	10.4	10.5	9.1	8.8	9.0	7.0	6.4	6.7	7.9	7.4	7.6
6	10.6	10.3	10.4	9.2	8.9	9.0	6.6	6.2	6.3	7.8	7.2	7.5
7	10.7	10.2	10.5	9.3	8.9	9.2	6.8	6.2	6.5	7.6	7.0	7.3
8	10.6	10.3	10.4	9.3	9.1	9.2	6.7	6.2	6.4	7.8	7.1	7.4
9	10.6	10.4	10.5	9.2	8.6	8.9	6.7	6.1	6.3	7.7	7.1	7.4
10	10.6	10.4	10.5	8.9	8.6	8.7	6.7	6.1	6.4	7.6	7.2	7.4
11	10.6	10.4	10.5	8.9	8.7	8.8	6.9	6.3	6.6	7.5	7.1	7.3
12	10.9	10.5	10.7	8.9	8.7	8.8	7.2	6.6	6.9	7.5	7.0	7.3
13	10.9	10.6	10.8	9.0	8.6	8.8	7.4	6.9	7.1	7.3	6.7	7.0
14	11.0	10.8	10.9	9.0	8.7	8.9	7.6	7.1	7.3	7.1	6.7	6.9
15	11.3	10.9	11.1	9.1	8.7	8.9	7.6	7.3	7.4	7.3	6.8	7.0
16	11.3	11.1	11.2	9.1	8.6	8.9	7.7	7.4	7.6	7.3	7.0	7.1
17	11.3	11.0	11.2	8.9	8.1	8.6	7.7	7.4	7.6	7.4	6.9	7.1
18	11.3	11.0	11.2	8.6	8.1	8.3	7.7	7.4	7.6	7.3	6.9	7.1
19	11.2	10.9	11.1	8.3	8.0	8.1	7.7	7.3	7.5	7.3	7.0	7.1
20	10.9	10.6	10.7	8.1	7.7	7.9	7.6	7.3	7.4	7.3	7.0	7.1
21	10.7	10.5	10.6	8.0	7.6	7.7	7.8	7.4	7.7	7.3	7.0	7.2
22	10.8	10.6	10.7	7.9	7.5	7.7	8.0	7.6	7.8	7.5	7.1	7.3
23	10.7	10.5	10.6	8.0	7.6	7.8	7.7	7.5	7.6	7.4	7.0	7.2
24	10.6	9.8	10.5	8.0	7.5	7.6	7.9	7.5	7.7	7.4	7.0	7.2
25	10.6	9.8	10.3	7.5	7.1	7.4	8.0	7.7	7.9	7.3	6.8	7.0
26	10.4	10.1	10.2	7.5	7.1	7.3	8.1	7.8	7.9	7.3	6.8	7.0
27	10.2	9.8	10	7.5	7.2	7.3	8.3	7.8	8.1	7.1	6.7	6.9
28	9.9	9.6	9.8	7.7	7.3	7.5	8.4	8.1	8.2	6.9	6.3	6.7
29	9.9	9.6	9.7	7.9	7.5	7.7	8.2	7.9	8.0	6.5	6.1	6.3
30	---	---	---	8.1	7.4	7.9	8.2	7.8	8.0	6.3	5.9	6.1
31	---	---	---	8.1	7.9	8.0	---	---	---	6.4	5.7	5.9
Month	11.3	9.6	10.6	10.0	7.1	8.5	8.4	6.1	7.4	8.4	5.7	7.2

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
				June			July			August		
1	6.3	5.8	6.0	7.3	6.8	7.1	6.0	5.7	5.8	5.8	5.3	5.6
2	6.4	6.0	6.2	7.3	6.5	6.9	5.9	5.5	5.8	6.3	5.7	6.0
3	6.2	5.8	6.0	7.5	6.5	6.9	6.0	5.7	5.8	6.4	5.9	6.1
4	6.4	5.8	6.1	7.4	6.6	7.0	6.2	5.7	5.9	6.2	5.2	5.6
5	5.9	5.4	5.8	7.4	6.6	7.0	6.2	5.8	6.0	5.5	4.9	5.2
6	5.8	5.3	5.5	7.3	6.4	7.0	6.2	5.9	6.1	5.7	4.8	5.3
7	6.2	5.5	5.7	7.2	6.6	6.9	6.2	4.7	5.7	5.8	5.3	5.6
8	6.3	5.9	6.1	8.3	6.6	7.3	5.8	4.4	5.2	5.9	5.6	5.7
9	6.4	6.1	6.3	7.6	6.5	7.0	6.3	5.6	6.0	6.0	5.8	5.9
10	6.6	6.1	6.4	7.2	6.3	6.6	6.3	6.0	6.2	6.0	5.7	5.8
11	6.7	6.3	6.5	6.7	6.1	6.3	6.4	5.9	6.1	6.1	5.8	5.9
12	6.8	6.4	6.6	6.4	5.9	6.1	6.4	5.6	5.9	6.2	5.9	6.1
13	6.9	6.2	6.5	5.9	5.6	5.8	6.1	5.6	5.8	6.6	5.9	6.3
14	6.8	6.2	6.5	6.4	5.7	6.0	6.2	5.8	6.0	6.6	6.4	6.5
15	6.8	6.2	6.6	6.2	5.8	6.0	6.4	6.0	6.1	6.9	6.5	6.6
16	7.0	6.4	6.8	6.4	6.0	6.2	6.3	5.6	5.9	6.8	6.6	6.7
17	7.2	6.4	6.9	6.7	6.0	6.2	6.2	5.5	5.9	6.8	6.4	6.6
18	7.3	6.6	6.9	6.6	6.1	6.4	6.3	5.9	6.1	6.7	6.5	6.6
19	7.2	6.6	6.9	6.9	6.1	6.5	6.5	6.0	6.3	6.9	6.6	6.7
20	7.2	6.7	7.0	6.7	6.2	6.4	6.4	5.9	6.1	7.1	6.8	7.0
21	7.3	6.8	7.1	6.4	5.8	6.1	6.0	5.5	5.8	7.1	6.9	7.0
22	7.5	6.8	7.1	6.1	5.7	5.9	6.3	5.8	6.0	7.0	6.8	6.9
23	7.1	6.7	6.9	6.2	5.8	5.9	6.3	5.9	6.1	7.0	6.6	6.9
24	6.9	6.4	6.6	6.5	5.8	6.1	6.2	5.8	6.0	7.0	6.8	6.9
25	6.9	6.4	6.6	6.6	6.0	6.3	6.2	5.6	5.9	7.5	6.9	7.1
26	6.9	6.3	6.7	6.5	5.7	6.2	6.8	6.2	6.5	7.6	7.2	7.3
27	7.2	6.3	6.8	5.7	5.1	5.3	6.8	6.0	6.5	7.5	7.1	7.3
28	7.5	6.8	7.2	6.2	5.4	5.7	6.1	5.6	5.9	7.5	7.3	7.4
29	7.3	6.2	7.0	6.4	5.6	6.0	5.6	5.3	5.5	7.5	7.2	7.4
30	7.8	6.6	7.1	6.3	5.7	6.0	5.3	4.9	5.2	7.4	7.2	7.4
31	---	---	---	6.6	5.5	5.9	5.4	5.1	5.3	---	---	---
Month	7.8	5.3	6.5	8.3	5.1	6.4	6.8	4.4	5.9	7.6	4.8	6.4

	Max	Min	Mean
Year	11.3	3.8	7.7

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	57	45	49	84	81	83	87	85	86	90	88	89
2	52	46	49	86	82	84	88	85	86	88	86	87
3	54	45	49	87	85	86	90	87	89	89	87	88
4	54	47	51	87	84	86	90	87	88	90	87	88
5	56	50	52	87	83	85	88	86	87	92	88	90
6	55	52	53	85	83	84	91	86	88	92	89	90
7	59	50	55	85	83	84	92	89	91	93	91	91
8	62	54	57	84	83	83	90	87	88	93	90	92
9	63	57	60	83	82	83	89	87	88	92	89	90
10	62	57	61	83	81	82	89	87	88	92	89	91
11	63	59	61	84	80	82	88	87	88	92	90	91
12	64	56	61	84	80	81	89	87	88	91	89	90
13	70	60	65	84	81	82	90	87	88	91	89	90
14	73	67	70	86	83	84	91	89	90	91	89	90
15	74	68	71	86	83	84	90	86	88	91	88	89
16	73	65	68	85	82	84	87	86	86	91	89	89
17	70	64	68	85	81	83	86	84	85	92	89	91
18	70	61	66	84	81	82	84	83	83	94	91	93
19	71	57	64	82	80	81	83	79	81	93	90	91
20	72	54	63	82	79	80	80	77	77	92	90	91
21	70	55	65	81	79	80	79	76	77	93	92	92
22	78	67	71	83	79	81	78	76	77	93	92	93
23	78	69	72	90	83	87	81	77	78	94	93	93
24	73	67	71	90	85	87	81	78	79	94	93	93
25	73	70	72	87	85	86	80	77	79	94	92	93
26	75	67	72	85	84	84	78	75	76	95	92	94
27	74	70	73	84	82	83	77	74	74	95	93	93
28	79	74	76	87	84	86	80	74	77	94	92	93
29	80	75	78	89	87	88	85	80	82	94	92	93
30	83	80	81	88	85	86	87	84	86	93	88	91
31	83	81	82	---	---	---	90	87	88	90	88	89
Month	83	45	65	90	79	84	92	74	84	95	86	91

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	76	70	73	95	88	92	80	76	78	73	66	70
2	78	72	75	96	84	89	78	72	76	80	72	77
3	75	69	72	99	85	90	79	74	77	81	75	78
4	78	70	74	99	87	92	82	75	78	79	66	71
5	71	64	69	100	88	93	82	76	79	69	61	66
6	69	62	65	99	86	94	82	77	80	73	61	68
7	74	64	67	97	89	93	82	61	75	74	67	72
8	75	70	72	112	89	98	76	57	67	76	71	74
9	77	72	75	103	88	95	83	73	79	76	74	75
10	79	73	77	97	84	89	83	79	81	75	71	73
11	81	76	79	90	79	84	83	77	80	76	72	74
12	83	78	80	82	71	77	83	72	77	77	73	75
13	85	76	80	77	73	75	79	72	75	81	72	77
14	83	75	79	83	73	78	80	75	77	80	78	79
15	83	75	80	81	75	78	83	78	80	84	78	80
16	85	77	82	84	78	81	82	72	76	83	80	82
17	87	77	83	88	78	81	81	71	76	82	78	80
18	89	79	83	88	80	84	83	77	80	81	78	80
19	88	79	84	93	81	87	84	78	81	83	80	81
20	88	82	85	90	83	86	82	76	79	85	81	83
21	91	84	88	86	78	81	77	70	74	85	82	84
22	95	85	89	81	75	78	80	73	77	84	81	82
23	90	84	88	82	76	78	80	74	77	83	79	82
24	88	81	84	86	76	81	77	72	74	83	80	81
25	87	81	84	88	79	83	77	69	72	89	81	84
26	88	80	85	86	75	82	85	77	81	90	85	87
27	91	79	86	75	67	70	85	74	80	89	84	86
28	96	86	91	83	71	76	74	68	72	89	85	87
29	93	79	89	87	75	81	68	64	66	88	85	87
30	100	86	91	85	76	81	64	60	63	87	84	86
31	---	---	---	89	73	79	68	62	66	---	---	---
Month	100	62	80	112	67	84	85	57	76	90	61	79

	Max	Min	Mean
Year	112	45	81