



Water-Data Report 2011

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 Records from August 1996 to September 1997 are unpublished and available from the USGS Water Science Center, Raleigh, NC.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

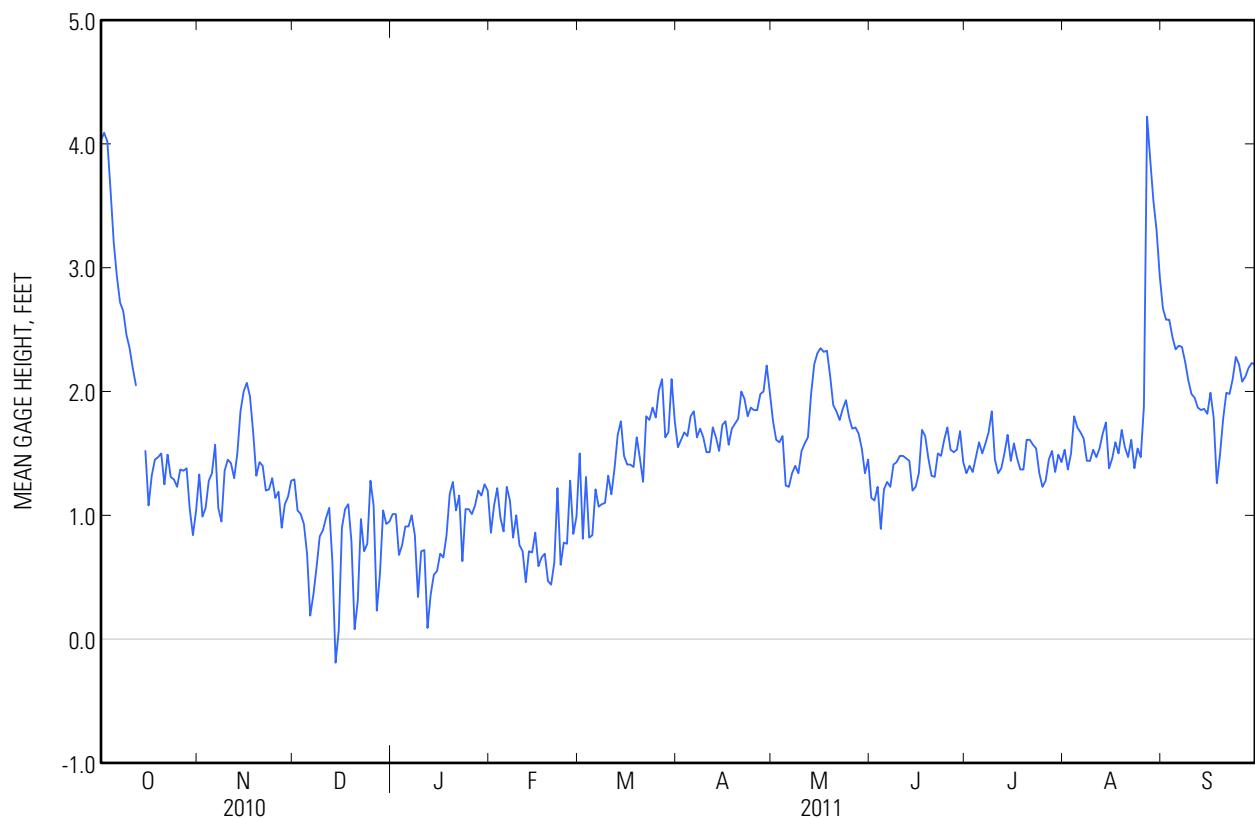
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5.50 ft, August 27; minimum elevation, -0.57 ft, December 14.

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.03	1.33	1.29	1.01	0.86	1.50	1.55	1.76	1.14	1.34	1.53	2.67
2	4.09	0.99	1.04	1.01	1.08	0.81	1.61	1.61	1.12	1.40	1.37	2.58
3	4.02	1.06	1.01	0.68	1.22	1.31	1.67	1.59	1.23	1.35	1.50	2.58
4	3.63	1.28	0.93	0.76	0.98	0.82	1.64	1.64	0.89	1.47	1.80	2.44
5	3.21	1.34	0.69	0.91	0.87	0.84	1.80	1.24	1.21	1.59	1.71	2.34
6	2.93	1.57	0.19	0.91	1.23	1.21	1.84	1.23	1.27	1.50	1.67	2.37
7	2.72	1.06	0.36	1.00	1.12	1.07	1.63	1.34	1.23	1.58	1.62	2.36
8	2.65	0.95	0.58	0.84	0.82	1.09	1.70	1.40	1.41	1.67	1.44	2.24
9	2.46	1.36	0.83	0.34	1.00	1.10	1.63	1.34	1.43	1.84	1.44	2.09
10	2.35	1.45	0.88	0.71	0.76	1.32	1.51	1.52	1.48	1.45	1.53	1.98
11	2.19	1.42	0.98	0.72	0.71	1.17	1.51	1.58	1.48	1.34	1.47	1.95
12	2.05	1.30	1.06	0.09	0.46	1.38	1.71	1.63	1.46	1.38	1.54	1.87
13	---	1.50	0.62	0.36	0.71	1.65	1.63	1.98	1.44	1.50	1.66	1.85
14	---	1.84	-0.19	0.52	0.70	1.76	1.52	2.22	1.20	1.65	1.75	1.86
15	1.52	2.00	0.07	0.55	0.86	1.48	1.73	2.31	1.23	1.44	1.38	1.82
16	1.08	2.07	0.90	0.69	0.59	1.41	1.76	2.35	1.34	1.58	1.46	1.99
17	1.32	1.96	1.05	0.66	0.66	1.41	1.57	2.32	1.69	1.46	1.59	1.79
18	1.45	1.67	1.09	0.84	0.69	1.39	1.70	2.33	1.64	1.37	1.50	1.26
19	1.47	1.32	0.79	1.17	0.47	1.63	1.74	2.13	1.46	1.37	1.69	1.49
20	1.50	1.43	0.08	1.27	0.44	1.46	1.78	1.89	1.32	1.61	1.55	1.78
21	1.25	1.40	0.31	1.04	0.62	1.27	2.00	1.84	1.31	1.61	1.47	1.99
22	1.49	1.20	0.97	1.16	1.22	1.80	1.94	1.77	1.50	1.57	1.61	1.98
23	1.31	1.21	0.71	0.63	0.60	1.77	1.80	1.86	1.48	1.54	1.38	2.10
24	1.29	1.30	0.77	1.05	0.78	1.87	1.87	1.93	1.61	1.34	1.54	2.28
25	1.23	1.14	1.28	1.05	0.77	1.79	1.85	1.79	1.71	1.23	1.47	2.22
26	1.37	1.19	1.08	1.01	1.28	2.01	1.85	1.70	1.53	1.28	1.88	2.08
27	1.36	0.90	0.23	1.08	0.85	2.10	1.98	1.71	1.51	1.45	4.22	2.12
28	1.38	1.09	0.53	1.20	0.99	1.63	2.00	1.66	1.53	1.52	3.87	2.19
29	1.05	1.15	1.04	1.16	---	1.67	2.21	1.54	1.68	1.35	3.54	2.23
30	0.84	1.28	0.93	1.25	---	2.10	1.99	1.34	1.43	1.49	3.30	2.22
31	1.04	---	0.95	1.20	---	1.76	---	1.45	---	1.43	2.93	---
Mean	---	1.36	0.74	0.87	0.83	1.47	1.76	1.74	1.40	1.47	1.88	2.09
Max	---	2.07	1.29	1.27	1.28	2.10	2.21	2.35	1.71	1.84	4.22	2.67
Min	---	0.90	-0.19	0.09	0.44	0.81	1.51	1.23	0.89	1.23	1.37	1.26

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 (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, 1,430 microsiemens, August 27; minimum recorded, 62 microsiemens, October 2.

pH: Maximum recorded, 7.5 standard units, on several days during the year; minimum recorded, 5.7 standard units, October 3, 4.

WATER TEMPERATURE: Maximum recorded, 32.1°C, July 30; minimum recorded, 2.9°C, January 14, 15.

DISSOLVED OXYGEN: Maximum recorded, 12.7 mg/L, January 15, 16, 17, 18; minimum recorded, <1.0, on several days during the year.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 114%, July 21; minimum recorded, <10%, on several days during the year.

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
October				November				December				January
1	95	63	76	121	111	115	125	117	121	127	120	123
2	83	62	68	118	110	113	125	117	122	124	115	120
3	103	83	96	115	109	112	127	116	122	124	115	121
4	99	91	94	121	108	114	128	123	125	121	114	117
5	92	90	91	114	108	110	128	122	124	127	116	121
6	95	91	93	113	108	110	129	123	126	128	117	123
7	104	95	100	114	108	111	129	124	127	129	125	128
8	108	104	106	114	108	111	129	118	123	125	112	117
9	109	104	105	116	108	111	129	121	126	119	114	117
10	112	107	109	115	109	112	121	111	114	124	117	119
11	112	108	109	113	108	110	117	111	114	126	114	122
12	116	111	114	114	108	111	117	112	115	129	109	122
13	---	---	---	115	109	111	117	111	114	130	128	129
14	---	---	---	115	110	112	118	112	115	128	116	124
15	122	112	119	116	111	113	118	112	114	121	115	118
16	122	114	119	115	111	113	126	114	124	122	115	119
17	118	114	116	117	112	114	124	110	114	121	115	118
18	116	113	114	126	113	116	113	107	110	121	116	119
19	119	114	117	128	115	122	111	107	109	122	116	118
20	124	114	117	118	112	115	115	110	111	127	118	123
21	125	116	120	120	112	116	118	112	114	124	116	121
22	127	125	126	116	111	113	118	113	115	120	114	117
23	126	123	124	117	110	113	125	114	121	120	115	117
24	123	114	117	118	111	114	121	114	118	122	117	120
25	123	114	119	120	115	117	119	113	115	121	116	118
26	124	114	120	117	112	114	119	112	116	126	117	123
27	125	116	121	116	109	113	118	112	115	126	117	121
28	125	117	121	119	112	117	118	113	115	126	123	125
29	126	118	122	121	115	118	122	113	117	123	116	121
30	128	120	126	122	116	119	123	114	118	120	114	116
31	126	117	122	---	---	---	127	118	124	124	120	122
Month	---	---	---	128	108	114	129	107	118	130	109	121

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	127	124	125	131	130	130	111	108	110	120	119	120
2	127	123	126	131	129	130	110	107	109	120	119	120
3	127	124	125	132	129	130	109	107	108	121	119	120
4	127	126	126	132	130	131	109	108	108	121	120	121
5	128	125	127	131	130	131	110	109	110	121	115	121
6	127	123	124	132	130	131	113	110	111	121	120	121
7	125	123	124	131	130	130	114	111	113	122	119	121
8	125	123	124	131	129	130	115	113	114	122	121	121
9	125	122	123	131	129	130	116	114	115	122	121	121
10	123	119	121	130	124	127	116	114	115	122	120	121
11	120	117	118	125	121	123	115	114	114	121	117	120
12	118	117	118	121	119	120	116	114	115	117	116	117
13	120	118	119	120	110	117	118	116	117	117	115	117
14	121	118	119	113	109	111	119	117	118	117	116	117
15	122	119	121	112	109	111	120	118	119	117	116	117
16	123	121	122	112	110	111	121	117	120	117	115	116
17	124	122	123	113	110	111	121	116	120	117	115	116
18	125	123	124	113	109	111	121	118	120	117	116	116
19	126	124	125	115	110	112	122	119	121	117	116	116
20	127	125	126	114	110	113	122	121	121	118	116	117
21	131	126	128	114	113	114	122	117	121	121	118	119
22	130	127	128	114	112	113	122	118	121	121	118	120
23	130	128	129	113	112	112	121	119	120	122	120	121
24	132	129	130	113	112	112	120	119	120	122	119	121
25	134	129	131	113	111	112	121	120	120	121	118	120
26	132	130	131	112	111	112	121	119	120	121	118	120
27	131	130	131	112	110	111	120	119	119	122	117	121
28	132	130	131	110	109	110	120	119	120	122	117	121
29	---	---	---	112	109	110	125	119	119	122	121	122
30	---	---	---	112	111	112	121	119	119	123	119	122
31	---	---	---	112	108	110	---	---	---	123	117	122
Month	134	117	125	132	108	118	125	107	117	123	115	120

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued
SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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		
1	123	121	122	133	129	131	140	138	139	91	85	88
2	124	122	123	134	131	132	139	131	135	109	91	102
3	124	122	123	133	131	132	137	131	134	111	104	106
4	124	119	123	133	128	130	137	126	130	110	106	107
5	124	122	123	129	127	128	139	131	137	113	107	111
6	124	121	123	133	129	130	139	137	138	113	112	113
7	123	122	123	137	131	133	137	126	130	115	113	114
8	122	120	121	135	132	133	136	126	131	122	115	117
9	125	121	124	136	130	133	134	127	130	127	121	125
10	126	124	125	130	121	124	143	127	136	130	127	129
11	125	124	124	132	124	127	144	141	143	133	129	131
12	125	122	123	133	125	129	144	142	143	134	131	133
13	126	123	124	132	125	129	142	139	141	133	124	129
14	126	124	125	133	127	130	139	128	132	128	121	124
15	128	125	127	133	119	125	137	127	130	134	122	127
16	128	125	127	127	120	124	138	130	135	134	120	130
17	131	126	127	124	119	120	140	130	136	127	118	122
18	132	126	127	120	119	119	139	131	133	125	118	120
19	132	126	127	122	120	120	144	139	142	127	121	125
20	128	122	127	133	121	129	147	144	146	123	119	120
21	131	125	129	138	129	133	147	145	146	122	119	120
22	126	122	124	141	138	139	146	138	142	128	119	124
23	133	124	129	141	139	140	146	140	144	125	112	118
24	135	132	134	140	133	137	146	136	142	131	117	126
25	137	133	135	139	132	136	142	133	137	134	125	132
26	136	134	135	138	129	135	146	132	139	125	112	116
27	136	131	133	137	126	131	1,430	124	526	123	116	119
28	134	132	133	137	128	132	857	99	171	125	114	119
29	137	133	135	138	130	135	101	94	98	130	115	120
30	139	132	134	143	134	139	94	84	89	131	116	125
31	---	---	---	143	136	139	89	86	88	---	---	---
Month	139	119	127	143	119	131	1,430	84	147	134	85	120

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02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median	
October				November				December				January	
1	6.5	6.0	6.1	7.1	7.0	7.1	7.1	7.1	7.1	7.2	7.2	7.2	
2	6.0	5.8	5.9	7.1	7.0	7.0	7.2	7.1	7.1	7.2	7.2	7.2	
3	5.9	5.7	5.8	7.2	7.1	7.1	7.2	7.2	7.2	7.2	7.2	7.2	
4	5.8	5.7	5.7	7.3	7.1	7.2	7.2	7.2	7.2	7.2	7.1	7.2	
5	5.8	5.8	5.8	7.3	7.2	7.2	7.3	7.2	7.2	7.2	7.1	7.2	
6	6.0	5.8	5.9	7.3	7.2	7.2	7.3	7.2	7.2	7.2	7.2	7.2	
7	6.0	6.0	6.0	7.2	7.2	7.2	7.3	7.2	7.2	7.2	7.2	7.2	
8	6.2	6.0	6.1	7.2	7.1	7.1	7.3	7.3	7.3	7.2	7.2	7.2	
9	6.2	6.1	6.2	7.3	7.1	7.2	7.4	7.3	7.3	7.2	7.2	7.2	
10	6.3	6.2	6.2	7.3	7.2	7.2	7.4	7.3	7.4	7.2	7.2	7.2	
11	6.2	6.2	6.2	7.3	7.2	7.2	7.4	7.3	7.4	7.2	7.2	7.2	
12	6.2	6.2	6.2	7.2	7.2	7.2	7.4	7.3	7.4	7.2	7.1	7.2	
13	---	---	---	7.2	7.2	7.2	7.3	7.3	7.3	7.5	7.2	7.2	
14	---	---	---	7.2	7.1	7.2	7.3	7.2	7.2	7.5	7.4	7.5	
15	6.5	6.4	6.5	7.1	7.0	7.0	7.3	7.2	7.2	7.5	7.4	7.5	
16	6.6	6.5	6.5	7.0	6.9	6.9	7.4	7.3	7.3	7.5	7.3	7.4	
17	6.6	6.5	6.5	7.0	6.9	6.9	7.4	7.4	7.4	7.4	7.2	7.4	
18	6.6	6.5	6.5	7.1	7.0	7.0	7.4	7.3	7.3	7.4	7.1	7.3	
19	6.5	6.5	6.5	7.1	7.0	7.1	7.3	7.2	7.2	7.2	7.1	7.2	
20	6.6	6.5	6.5	7.1	7.1	7.1	7.2	7.1	7.1	7.3	7.1	7.2	
21	6.7	6.6	6.6	7.2	7.1	7.2	7.1	7.1	7.1	7.3	7.1	7.2	
22	6.8	6.7	6.7	7.2	7.1	7.1	7.2	7.1	7.1	7.3	7.0	7.2	
23	6.8	6.7	6.8	7.2	7.1	7.1	7.2	7.2	7.2	7.2	7.0	7.1	
24	6.8	6.7	6.8	7.2	7.1	7.2	7.3	7.2	7.2	7.2	7.1	7.1	
25	6.8	6.8	6.8	7.2	7.1	7.1	7.3	7.2	7.2	7.2	7.0	7.1	
26	6.9	6.8	6.8	7.1	7.1	7.1	7.3	7.2	7.2	7.2	7.0	7.1	
27	6.9	6.8	6.8	7.1	7.0	7.1	7.3	7.2	7.2	7.2	7.0	7.1	
28	6.9	6.8	6.8	7.1	7.1	7.1	7.2	7.2	7.2	7.2	6.9	7.0	
29	6.9	6.8	6.8	7.1	7.1	7.1	7.2	7.2	7.2	7.0	6.9	7.0	
30	7.0	6.8	6.9	7.1	7.1	7.1	7.2	7.2	7.2	7.0	6.9	7.0	
31	7.0	6.9	7.0	---	---	---	7.2	7.2	7.2	7.0	6.9	7.0	
Max	---	---	---	7.3	7.2	7.2	7.4	7.4	7.4	7.5	7.4	7.5	
Min	---	---	---	7.0	6.9	6.9	7.1	7.1	7.1	7.0	6.9	7.0	

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

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

Water-Data Report 2011

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
				June			July			August		
1	7.1	7.0	7.0	7.1	7.0	7.1	7.3	7.2	7.2	6.0	6.0	6.0
2	7.1	6.9	7.0	7.1	7.0	7.1	7.2	7.1	7.2	6.2	6.0	6.1
3	7.0	7.0	7.0	7.2	7.1	7.1	7.4	7.1	7.2	6.2	6.2	6.2
4	7.0	6.9	7.0	7.2	7.1	7.1	7.5	7.3	7.4	6.2	6.2	6.2
5	6.9	6.9	6.9	7.2	7.1	7.1	7.4	7.3	7.4	6.2	6.2	6.2
6	7.0	6.9	6.9	7.2	7.0	7.1	7.4	7.3	7.3	6.2	6.2	6.2
7	7.0	6.9	6.9	7.2	7.1	7.1	7.4	7.2	7.3	6.3	6.2	6.2
8	7.0	6.8	6.9	7.3	7.2	7.2	7.3	7.2	7.3	6.3	6.3	6.3
9	7.2	6.9	7.2	7.2	7.2	7.2	7.3	7.2	7.2	6.4	6.3	6.4
10	7.2	7.2	7.2	7.2	7.0	7.1	7.3	7.2	7.3	6.4	6.4	6.4
11	7.2	7.1	7.2	7.2	7.1	7.1	7.4	7.3	7.3	6.5	6.4	6.4
12	7.1	7.1	7.1	7.2	7.2	7.2	7.3	7.3	7.3	6.5	6.4	6.4
13	7.2	7.1	7.1	7.3	7.2	7.2	7.3	7.2	7.2	6.4	6.3	6.4
14	7.2	7.1	7.1	7.3	7.2	7.2	7.3	7.2	7.2	6.6	6.3	6.3
15	7.2	7.1	7.1	7.2	7.1	7.1	7.2	7.2	7.2	6.7	6.5	6.6
16	7.2	7.1	7.2	7.1	7.1	7.1	7.2	7.2	7.2	6.8	6.7	6.7
17	7.2	7.1	7.2	7.2	7.1	7.1	7.2	7.2	7.2	6.8	6.7	6.7
18	7.2	7.1	7.2	7.3	7.2	7.2	7.2	7.2	7.2	6.8	6.7	6.7
19	7.2	7.1	7.1	7.3	7.2	7.3	7.2	7.1	7.2	6.7	6.7	6.7
20	7.1	7.1	7.1	7.4	7.3	7.3	7.2	7.1	7.2	6.7	6.6	6.6
21	7.1	7.0	7.1	7.4	7.2	7.4	7.2	7.1	7.2	6.6	6.6	6.6
22	7.1	7.0	7.1	7.4	7.3	7.4	7.3	7.1	7.2	6.7	6.6	6.6
23	7.2	7.1	7.1	7.4	7.2	7.4	7.2	7.1	7.2	6.6	6.5	6.5
24	7.1	7.0	7.1	7.5	7.3	7.4	7.5	7.1	7.1	6.7	6.6	6.6
25	7.1	7.0	7.1	7.4	7.3	7.3	7.2	7.1	7.2	6.8	6.7	6.8
26	7.1	7.0	7.1	7.3	7.2	7.3	7.3	7.2	7.2	6.7	6.6	6.6
27	7.1	7.0	7.1	7.3	7.2	7.2	7.3	6.8	7.3	6.6	6.6	6.6
28	7.1	7.0	7.1	7.3	7.2	7.3	6.9	6.4	6.5	6.7	6.6	6.6
29	7.1	7.0	7.1	7.3	7.2	7.3	6.5	6.2	6.4	6.7	6.7	6.7
30	7.1	7.0	7.1	7.4	7.2	7.3	6.3	6.0	6.1	6.8	6.6	6.7
31	---	---	---	7.4	7.3	7.3	6.0	6.0	6.0	---	---	---
Max	7.2	7.2	7.2	7.5	7.3	7.4	7.5	7.3	7.4	6.8	6.7	6.8
Min	6.9	6.8	6.9	7.1	7.0	7.1	6.0	6.0	6.0	6.0	6.0	6.0

02081094 ROANOKE RIVER AT JAMESVILLE, NC—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	
October				November				December				January	
1	23.1	22.1	22.6	19.2	18.0	18.5	13.2	12.8	13.0	3.9	3.5	3.7	
2	22.1	20.9	21.3	18.0	17.5	17.8	12.8	12.2	12.4	4.4	3.7	4.1	
3	20.9	19.9	20.3	17.6	17.2	17.5	12.2	11.6	11.8	4.7	4.3	4.5	
4	19.9	19.1	19.5	17.3	17.0	17.2	11.6	11.3	11.5	4.8	4.4	4.6	
5	19.1	18.5	18.7	17.1	16.5	16.8	11.3	10.9	11.1	5.2	4.7	4.9	
6	18.6	18.0	18.2	16.7	16.1	16.3	10.9	10.0	10.4	5.2	5.1	5.2	
7	18.2	17.5	17.9	16.2	15.5	15.7	10.0	8.6	9.3	5.1	4.7	4.8	
8	18.6	17.9	18.2	15.5	14.9	15.1	8.6	7.6	8.1	4.7	4.3	4.5	
9	19.0	18.3	18.6	14.9	14.6	14.8	7.6	7.2	7.4	4.4	4.0	4.2	
10	19.3	18.7	19.0	14.8	14.6	14.7	7.8	7.4	7.6	4.4	4.1	4.2	
11	19.7	19.0	19.3	14.9	14.7	14.8	7.5	6.9	7.1	4.1	3.9	4.0	
12	20.1	19.5	19.8	14.9	14.4	14.5	7.3	6.8	7.1	3.9	3.4	3.7	
13	---	---	---	14.4	14.2	14.3	7.3	6.8	7.0	3.4	3.0	3.3	
14	---	---	---	14.3	13.9	14.2	6.8	6.0	6.3	3.3	2.9	3.1	
15	20.4	19.9	20.2	14.1	13.7	13.9	6.0	5.5	5.8	3.3	2.9	3.1	
16	20.2	19.7	19.9	14.0	13.8	13.9	5.5	4.8	5.0	3.5	3.0	3.2	
17	19.8	19.1	19.4	14.6	13.9	14.2	5.5	5.1	5.3	3.4	3.3	3.3	
18	19.4	18.9	19.1	14.3	13.9	14.1	5.2	4.8	5.0	3.8	3.3	3.6	
19	19.4	18.9	19.2	14.2	13.8	14.0	5.0	4.7	4.9	4.3	3.6	3.9	
20	19.2	18.8	19.0	14.2	13.8	14.0	4.9	4.7	4.8	4.6	4.2	4.4	
21	19.1	18.9	19.0	13.9	13.5	13.7	4.8	4.5	4.7	4.7	4.4	4.6	
22	19.2	18.6	19.0	13.9	13.2	13.5	4.9	4.7	4.8	4.6	4.1	4.4	
23	19.2	18.7	18.9	14.2	13.5	13.8	4.9	4.4	4.7	4.2	4.0	4.1	
24	19.2	18.6	18.8	14.2	13.8	13.9	5.1	4.4	4.8	4.1	3.7	3.9	
25	18.8	18.5	18.6	14.3	13.7	14.0	5.1	4.9	5.0	3.7	3.5	3.6	
26	18.8	18.4	18.6	14.4	14.1	14.2	5.1	4.4	4.7	3.9	3.7	3.8	
27	19.5	18.8	19.1	14.4	13.7	14.1	4.4	4.0	4.2	4.1	3.7	3.9	
28	19.9	19.5	19.6	13.7	13.3	13.5	4.0	3.7	3.9	4.5	3.9	4.2	
29	19.9	19.5	19.7	13.4	12.7	12.9	4.0	3.6	3.7	4.8	4.3	4.5	
30	20.0	19.5	19.8	12.9	12.6	12.8	3.7	3.2	3.5	5.2	4.7	4.9	
31	19.8	19.2	19.7	---	---	---	3.5	3.1	3.3	5.2	4.9	5.0	
Month	---	---	---	19.2	12.6	14.8	13.2	3.1	6.7	5.2	2.9	4.1	

02081094 ROANOKE RIVER AT JAMESVILLE, NC—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
February				March				April				May
1	5.3	4.9	5.1	11.4	11.0	11.2	11.0	10.6	10.8	20.3	19.6	19.9
2	6.2	5.3	5.7	11.6	11.1	11.4	11.0	10.6	10.8	20.4	19.8	20.0
3	6.2	6.0	6.1	11.6	11.3	11.5	11.8	10.7	11.1	20.8	20.2	20.5
4	6.3	6.2	6.3	11.7	11.3	11.5	13.1	11.6	12.2	20.7	20.2	20.5
5	6.6	6.3	6.5	11.8	11.5	11.6	13.6	13.1	13.3	20.3	19.8	20.0
6	6.8	6.6	6.7	12.0	11.5	11.8	14.0	13.2	13.6	20.3	19.6	20.0
7	6.8	6.6	6.7	11.9	11.6	11.8	14.6	13.7	14.1	20.6	19.8	20.1
8	7.0	6.7	6.8	11.7	11.5	11.6	15.0	14.4	14.7	20.2	19.9	20.0
9	6.8	6.1	6.4	11.8	11.4	11.6	15.2	14.8	15.0	20.6	19.8	20.2
10	6.5	6.1	6.2	12.2	11.8	12.0	15.3	15.0	15.2	20.8	20.2	20.5
11	6.3	5.9	6.1	12.3	11.8	12.2	15.6	15.2	15.4	20.8	20.5	20.6
12	6.3	5.8	6.1	11.8	11.4	11.6	16.0	15.5	15.7	20.9	20.2	20.5
13	6.2	5.7	6.0	11.5	11.1	11.3	16.2	15.5	15.8	20.9	20.7	20.8
14	6.6	5.9	6.2	11.3	10.9	11.1	16.8	15.9	16.3	21.2	20.6	20.9
15	6.8	6.2	6.5	11.2	10.8	11.0	17.1	16.3	16.7	21.2	20.8	21.0
16	7.1	6.6	6.8	11.3	10.9	11.1	16.7	16.5	16.6	21.5	21.0	21.2
17	7.7	7.0	7.2	11.2	10.7	11.0	17.1	16.6	16.9	21.3	21.0	21.1
18	8.7	7.7	8.1	12.0	10.9	11.4	17.0	16.7	16.9	21.3	20.9	21.1
19	9.3	8.7	9.0	12.7	12.0	12.3	16.9	16.4	16.7	21.3	20.6	20.9
20	9.5	8.9	9.2	13.0	12.4	12.7	18.0	16.9	17.5	21.7	20.9	21.3
21	10.0	9.5	9.7	13.6	12.5	13.0	18.1	17.8	17.9	21.8	21.2	21.5
22	10.0	9.6	9.8	13.8	13.0	13.4	17.8	16.9	17.2	22.5	21.7	22.0
23	9.8	9.6	9.7	14.2	13.1	13.6	17.6	16.8	17.2	23.5	22.4	22.9
24	9.8	9.6	9.7	14.5	13.7	14.1	18.3	17.2	17.8	24.4	23.5	23.9
25	10.3	9.8	10.1	14.3	13.6	14.0	19.0	18.0	18.5	24.9	24.2	24.6
26	10.2	9.8	10.0	13.8	13.2	13.5	19.3	18.7	19.0	25.5	24.9	25.2
27	10.3	9.8	10.1	13.2	11.8	12.7	20.2	18.9	19.5	25.5	25.3	25.4
28	11.1	10.3	10.7	11.8	11.3	11.4	20.7	20.0	20.3	25.8	25.3	25.6
29	---	---	---	11.5	10.8	11.1	20.9	20.3	20.6	26.6	25.6	26.0
30	---	---	---	11.5	10.9	11.1	20.6	20.0	20.3	26.4	26.0	26.2
31	---	---	---	11.0	10.7	10.8	---	---	---	26.8	26.0	26.3
Month	11.1	4.9	7.6	14.5	10.7	11.9	20.9	10.6	16.1	26.8	19.6	22.0

02081094 ROANOKE RIVER AT JAMESVILLE, NC—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		
1	27.3	26.4	26.8	30.0	29.0	29.5	31.4	30.5	30.9	24.6	23.9	24.2
2	27.3	26.7	27.0	30.3	29.6	29.8	31.2	30.8	31.0	24.9	24.2	24.5
3	27.3	26.9	27.1	30.2	29.6	29.8	31.3	30.7	31.0	25.0	24.3	24.6
4	27.1	26.8	27.0	30.4	29.4	29.7	31.5	30.8	31.2	24.9	24.4	24.7
5	27.1	26.2	26.5	30.3	29.6	29.9	31.2	30.6	30.8	25.1	24.6	24.8
6	26.3	25.6	26.0	30.2	29.9	30.1	30.8	30.4	30.6	25.8	25.0	25.3
7	26.2	25.3	25.7	30.1	29.5	29.8	31.2	30.3	30.6	26.1	25.6	25.8
8	27.3	25.6	26.4	29.9	29.6	29.7	31.3	30.4	30.9	26.5	25.9	26.2
9	27.6	26.6	27.2	29.8	29.1	29.4	31.4	31.0	31.2	26.8	26.4	26.6
10	28.2	27.0	27.6	29.4	28.6	29.0	31.5	30.9	31.2	26.8	26.4	26.6
11	28.4	27.3	27.8	30.1	29.3	29.6	31.3	30.9	31.1	26.9	26.3	26.6
12	28.3	27.1	27.7	30.1	29.6	29.8	31.1	30.6	30.7	27.0	26.5	26.7
13	27.8	27.0	27.3	30.8	29.9	30.3	30.7	30.3	30.5	26.8	26.2	26.6
14	27.5	26.8	27.1	30.6	30.0	30.4	30.4	30.0	30.2	27.1	26.2	26.7
15	27.2	26.8	27.0	30.0	29.1	29.4	30.0	29.5	29.7	27.2	26.5	26.8
16	26.9	26.6	26.7	29.2	28.7	28.9	29.9	29.6	29.7	27.0	25.5	26.4
17	27.3	26.6	26.9	29.6	28.7	29.1	29.8	29.3	29.6	25.5	24.7	25.0
18	27.3	26.6	27.0	29.8	29.1	29.4	29.6	29.1	29.3	24.7	23.9	24.2
19	27.6	27.1	27.4	30.0	29.2	29.5	29.2	28.9	29.1	24.1	23.6	23.8
20	27.8	27.4	27.6	30.1	29.5	29.8	29.2	28.6	29.0	23.8	23.4	23.5
21	27.8	27.1	27.4	30.4	29.6	30.0	29.7	29.1	29.3	23.7	23.3	23.4
22	27.8	27.4	27.6	30.8	29.9	30.4	29.8	29.2	29.4	23.6	23.3	23.4
23	28.5	27.8	28.1	31.4	30.6	31.0	29.5	29.0	29.2	23.3	22.9	23.0
24	28.7	28.3	28.5	31.6	31.1	31.3	30.1	28.9	29.2	24.0	23.1	23.4
25	29.1	28.3	28.5	32.0	31.3	31.5	29.3	28.7	29.0	24.4	24.0	24.3
26	29.2	28.5	28.8	31.4	30.8	31.2	29.3	28.8	29.0	24.0	23.6	23.7
27	29.3	28.7	28.9	31.5	30.5	30.8	29.0	26.3	27.6	23.9	23.7	23.8
28	29.6	28.6	28.8	31.4	30.9	31.1	26.6	25.5	25.9	24.4	23.7	24.0
29	29.2	28.9	29.0	31.8	31.1	31.5	26.3	25.7	25.9	24.7	24.0	24.3
30	29.8	29.0	29.4	32.1	31.4	31.7	25.7	24.8	25.1	24.8	24.5	24.6
31	---	---	---	31.6	30.8	31.2	24.8	24.1	24.4	---	---	---
Month	29.8	25.3	27.5	32.1	28.6	30.1	31.5	24.1	29.4	27.2	22.9	24.9

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	
October				November				December				January	
1	6.6	4.4	5.2	8.3	7.5	7.9	8.9	8.7	8.8	12.6	12.3	12.4	
2	4.4	3.3	3.7	8.3	7.8	8.1	9.3	8.8	9.0	12.6	12.4	12.5	
3	3.4	3.1	3.2	8.6	8.1	8.4	9.4	9.1	9.3	12.4	12.1	12.3	
4	3.3	3.1	3.2	8.4	8.1	8.2	9.5	9.2	9.3	12.2	12.0	12.1	
5	3.4	3.2	3.3	8.3	8.2	8.2	9.5	9.2	9.3	12.2	11.9	12.1	
6	3.8	3.4	3.6	8.3	8.1	8.2	9.6	9.2	9.4	12.0	11.8	11.9	
7	4.3	3.8	4.1	8.2	8.2	8.2	10.1	9.4	9.8	12.1	11.8	11.9	
8	4.7	4.3	4.6	8.3	8.1	8.2	10.6	10.1	10.4	12.1	11.9	12.0	
9	5.1	4.7	4.9	8.7	8.3	8.5	10.9	10.6	10.8	12.0	11.8	11.9	
10	5.2	5.1	5.2	8.7	8.6	8.6	11.0	10.6	10.8	11.9	11.7	11.8	
11	5.2	4.7	5.0	8.8	8.6	8.6	11.3	11.0	11.1	12.0	11.8	11.9	
12	5.0	4.2	4.6	8.8	8.7	8.7	11.3	10.9	11.1	12.2	11.8	12.0	
13	---	---	---	8.8	8.7	8.7	11.1	10.9	11.0	12.6	12.2	12.4	
14	---	---	---	8.8	8.6	8.7	11.2	10.8	11.0	12.6	12.5	12.6	
15	5.6	5.0	5.4	8.6	8.3	8.4	11.4	10.9	11.2	12.7	12.5	12.6	
16	5.9	5.3	5.7	8.3	8.1	8.2	11.6	11.3	11.5	12.7	12.6	12.6	
17	6.0	5.4	5.8	8.4	8.1	8.2	11.7	11.3	11.5	12.7	12.6	12.6	
18	5.9	5.2	5.5	8.6	8.2	8.4	11.9	11.5	11.7	12.7	12.3	12.5	
19	5.8	4.9	5.4	8.5	8.2	8.4	11.8	11.5	11.7	12.3	12.1	12.2	
20	6.0	5.5	5.8	8.6	8.4	8.5	11.6	11.4	11.5	12.2	12.0	12.2	
21	6.5	5.8	6.3	8.9	8.6	8.7	11.6	11.4	11.5	12.2	12.0	12.1	
22	6.9	6.3	6.6	8.9	8.7	8.8	11.8	11.5	11.7	12.1	11.9	12.0	
23	6.9	6.6	6.7	9.0	8.7	8.8	11.9	11.7	11.9	12.1	11.9	12.0	
24	7.2	6.4	6.9	9.1	8.8	8.9	11.9	11.7	11.8	12.2	12.0	12.1	
25	7.1	6.6	6.9	9.0	8.7	8.8	11.9	11.8	11.8	12.2	12.1	12.1	
26	7.3	6.3	6.8	8.7	8.6	8.6	11.9	11.8	11.8	12.3	12.1	12.2	
27	7.2	6.5	6.9	8.7	8.4	8.6	11.9	11.6	11.8	12.3	12.1	12.2	
28	7.2	6.5	6.9	8.7	8.4	8.6	12.0	11.8	11.9	12.3	12.1	12.2	
29	7.1	6.7	6.9	8.8	8.6	8.7	12.1	11.8	12.0	12.2	12.0	12.0	
30	7.4	6.8	7.0	8.9	8.7	8.8	12.2	12.0	12.1	12.1	11.8	12.0	
31	7.6	7.2	7.5	---	---	---	12.5	12.2	12.3	12.0	11.8	11.9	
Month	---	---	---	9.1	7.5	8.5	12.5	8.7	11.0	12.7	11.7	12.2	

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
February				March				April				May
1	11.9	11.7	11.8	10.6	10.2	10.4	9.4	9.1	9.3	6.6	6.1	6.2
2	12.0	11.7	11.8	10.3	10.0	10.1	9.4	9.1	9.2	6.4	6.1	6.3
3	11.9	11.7	11.8	10.3	8.5	10.0	9.3	9.2	9.2	6.6	6.2	6.4
4	11.7	11.5	11.6	10.1	9.8	10	9.3	9.1	9.2	6.8	6.3	6.5
5	11.6	11.2	11.4	10.1	9.6	9.8	9.2	8.9	9.0	7.0	6.4	6.8
6	11.2	10.9	11.0	10.0	9.3	9.7	9.1	8.7	8.8	7.3	6.7	7.0
7	11.0	10.8	10.9	10.2	9.5	10	9.0	8.5	8.7	7.5	6.8	7.2
8	11.1	10.8	10.9	10.3	10.0	10.1	8.9	8.5	8.7	7.6	7.1	7.3
9	11.2	10.9	11.0	10.3	10.0	10.1	8.9	8.6	8.7	8.0	7.3	7.7
10	11.0	10.7	10.9	10.0	9.8	9.8	8.8	8.4	8.5	8.2	7.7	7.9
11	10.8	10.6	10.7	9.8	9.3	9.5	8.4	8.0	8.1	8.2	7.6	7.9
12	10.9	10.7	10.8	10.0	9.3	9.6	8.3	8.0	8.2	7.9	7.6	7.8
13	11.1	10.8	11.0	10.2	9.8	10.0	8.3	8.0	8.2	7.8	7.5	7.6
14	11.2	10.9	11.1	10.3	10.1	10.2	8.4	8.0	8.2	7.7	7.4	7.6
15	11.3	11.1	11.2	10.3	10.1	10.2	8.9	8.1	8.5	7.6	7.3	7.4
16	11.3	11.1	11.2	10.3	10.0	10.2	8.9	8.7	8.8	7.4	6.8	7.0
17	11.3	11.1	11.2	10.3	10.1	10.2	8.9	8.6	8.7	6.9	6.4	6.6
18	11.2	11.0	11.1	10.3	10.1	10.2	8.9	8.5	8.7	6.6	6.2	6.4
19	11.1	10.8	10.9	10.2	9.9	10.0	9.0	8.8	8.9	6.2	5.9	6.1
20	10.9	10.6	10.8	10.2	9.7	10	9.1	8.6	8.8	6.4	5.9	6.2
21	10.9	10.5	10.7	10.1	9.7	9.9	9.2	8.9	9.0	6.9	6.0	6.4
22	10.8	10.5	10.6	10.0	9.7	9.9	9.0	8.6	8.8	7.0	6.4	6.7
23	10.6	10.3	10.4	9.9	9.5	9.7	8.9	8.4	8.7	7.0	6.7	6.8
24	10.5	10.2	10.4	9.6	9.3	9.4	8.8	8.5	8.6	7.0	6.6	6.8
25	10.5	10.1	10.3	9.4	9.0	9.2	8.7	8.2	8.4	7.0	6.5	6.6
26	10.6	9.6	10.4	9.4	9.0	9.2	8.3	8.0	8.2	6.8	6.3	6.6
27	10.6	10.1	10.4	9.1	8.6	8.9	8.0	7.6	7.8	6.8	6.4	6.6
28	10.5	10.1	10.3	8.8	8.5	8.6	7.7	7.1	7.4	6.9	6.5	6.7
29	---	---	---	9.0	8.6	8.8	7.3	6.4	6.9	6.8	6.5	6.7
30	---	---	---	9.3	8.9	9.1	6.6	6.2	6.3	6.8	6.3	6.6
31	---	---	---	9.3	8.9	9.1	---	---	---	6.8	6.4	6.6
Month	12.0	9.6	10.9	10.6	8.5	9.7	9.4	6.2	8.5	8.2	5.9	6.9

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
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	6.7	6.1	6.5	6.2	5.5	5.9	6.8	5.9	6.3	0.1	0.1	0.1
2	6.7	6.1	6.4	6.3	5.5	6.0	6.5	5.0	5.8	0.1	0.1	0.1
3	6.7	6.4	6.5	6.5	5.5	6.1	6.1	5.0	5.8	0.1	0.1	0.1
4	6.7	6.3	6.5	6.7	5.8	6.2	6.7	5.8	6.2	0.1	0.1	0.1
5	6.6	6.2	6.4	6.8	6.0	6.4	6.4	5.8	6.1	0.1	0.1	0.1
6	6.7	6.2	6.5	6.5	5.3	6.1	6.2	5.6	5.9	0.1	0.0	0.1
7	6.8	6.2	6.5	6.5	5.7	6.1	6.3	5.2	5.7	0.1	0.0	0.1
8	6.5	6.2	6.4	6.7	6.0	6.3	5.9	5.3	5.6	0.1	0.0	0.1
9	6.5	6.0	6.3	6.5	6.1	6.3	6.3	5.5	5.9	0.1	0.0	0.0
10	6.6	6.2	6.4	6.2	5.2	5.6	6.4	5.8	6.1	0.1	0.0	0.0
11	6.5	6.1	6.3	6.7	5.7	6.0	6.7	6.1	6.3	0.0	0.0	0.0
12	6.5	6.1	6.3	6.8	6.1	6.4	6.4	5.8	6.1	0.0	0.0	0.0
13	6.5	6.0	6.2	7.1	6.2	6.6	6.1	5.6	5.9	0.0	0.0	0.0
14	6.5	5.9	6.2	7.0	6.3	6.6	6.6	5.5	5.9	0.1	0.0	0.0
15	6.5	6.2	6.4	6.3	5.6	6.1	6.1	5.7	5.9	2.4	0.1	1.1
16	6.6	6.2	6.4	6.3	5.9	6.1	6.1	5.6	5.8	3.8	2.3	3.4
17	6.6	6.2	6.4	7.1	6.1	6.4	6.3	5.7	6.0	4.1	3.5	3.8
18	6.5	6.1	6.3	7.8	6.7	7.1	6.3	5.8	6.0	4.2	3.5	3.8
19	6.4	6.0	6.2	8.0	7.0	7.5	6.5	5.8	6.1	3.8	3.4	3.6
20	6.3	5.9	6.1	8.3	7.4	7.7	6.6	6.0	6.3	3.6	2.8	3.1
21	6.0	5.5	5.8	8.5	7.1	7.9	6.6	6.0	6.3	3.2	2.6	2.9
22	6.3	5.8	6.0	8.3	7.4	7.9	7.4	5.9	6.4	4.2	2.6	3.1
23	6.4	5.8	6.1	8.2	7.1	7.8	6.5	5.8	6.1	4.2	2.1	3.0
24	6.2	5.6	6.0	8.1	7.1	7.6	8.1	5.6	6.2	5.0	4.0	4.6
25	6.4	5.5	6.0	7.9	6.9	7.3	6.6	5.9	6.2	5.5	4.8	5.2
26	6.3	5.7	6.0	7.2	6.3	6.8	6.7	6.3	6.5	4.8	3.9	4.4
27	6.3	5.8	6.0	7.3	6.1	6.6	6.8	5.2	6.2	4.3	3.4	3.8
28	6.3	5.6	6.0	7.4	6.2	6.7	---	---	---	4.8	3.6	4.3
29	6.1	5.8	6.0	7.6	6.3	6.8	---	---	---	5.1	4.5	4.8
30	6.2	5.6	5.9	7.9	6.5	7.1	0.9	0.1	0.3	5.2	4.2	4.7
31	---	---	---	7.6	6.6	7.0	0.1	0.1	0.1	---	---	---
Month	6.8	5.5	6.2	8.5	5.2	6.7	---	---	---	5.5	0.0	2.0

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	
October				November				December				January	
1	77	51	61	89	81	85	---	---	---	96	93	94	
2	51	37	42	88	82	85	87	82	84	96	94	95	
3	38	34	35	90	85	88	87	84	86	96	94	95	
4	36	34	35	88	84	86	87	84	86	95	93	94	
5	37	34	36	86	84	85	87	83	85	96	93	94	
6	40	36	38	85	83	84	86	82	84	95	93	94	
7	46	40	43	84	82	83	87	83	85	94	92	93	
8	50	45	49	82	81	82	90	86	88	94	92	93	
9	55	50	53	86	82	84	91	88	90	92	90	91	
10	57	55	56	86	85	85	93	89	91	92	90	91	
11	57	51	54	87	85	85	94	91	92	92	90	91	
12	55	46	50	87	85	86	94	91	92	92	89	91	
13	---	---	---	86	85	85	92	90	90	94	91	93	
14	---	---	---	86	83	85	91	88	90	95	93	94	
15	62	55	59	83	81	82	92	87	90	95	93	94	
16	65	58	63	81	78	80	91	89	90	96	94	95	
17	66	59	63	83	79	80	93	89	91	96	95	95	
18	64	56	60	84	80	82	93	90	92	96	93	95	
19	63	53	58	83	80	82	93	90	92	95	92	93	
20	65	59	62	84	81	83	91	89	90	95	92	94	
21	70	63	68	86	83	84	91	89	90	95	93	94	
22	75	68	71	86	83	85	92	90	91	94	92	93	
23	75	71	72	88	84	86	93	91	92	93	91	92	
24	77	69	74	89	85	87	94	91	93	93	91	92	
25	76	71	74	88	85	85	94	92	93	93	91	92	
26	78	67	73	85	84	84	94	91	92	94	92	93	
27	79	71	75	85	82	83	92	89	91	94	92	93	
28	79	71	76	84	80	83	92	90	91	95	93	94	
29	78	73	76	84	81	83	92	89	91	95	92	94	
30	81	75	77	84	82	83	92	90	91	95	92	94	
31	84	79	82	---	---	---	94	91	93	95	93	93	
Month	---	---	---	90	78	84	---	---	---	96	89	93	

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

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

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued**DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
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	85	77	82	82	72	78	92	79	85	1	1	1	
2	85	76	81	84	73	79	88	67	78	1	1	1	
3	85	80	82	86	73	80	83	67	78	1	1	1	
4	85	79	81	89	76	82	91	78	84	1	1	1	
5	82	77	80	91	80	84	87	78	82	1	1	1	
6	83	76	80	86	71	81	83	75	79	1	0	0	
7	84	77	80	86	75	81	85	70	76	1	0	0	
8	82	77	79	89	79	84	80	71	76	1	0	0	
9	83	75	80	86	80	83	86	74	80	1	0	0	
10	85	78	81	81	67	73	87	78	83	1	0	0	
11	84	79	81	89	75	80	91	82	85	0	0	0	
12	84	77	80	90	81	85	86	78	82	0	0	0	
13	83	76	79	95	82	88	82	75	79	0	0	0	
14	82	75	79	94	84	89	88	73	78	1	0	0	
15	82	78	80	84	73	81	81	75	78	30	1	13	
16	83	78	80	82	77	79	81	74	77	47	29	42	
17	83	78	80	94	79	84	83	75	78	49	42	46	
18	82	76	80	103	88	93	83	76	79	51	42	46	
19	81	76	79	106	92	98	85	76	80	45	40	42	
20	80	75	78	110	97	102	86	78	83	43	33	36	
21	76	70	73	114	94	105	87	79	83	38	31	34	
22	81	74	77	112	99	105	98	77	84	49	31	37	
23	83	74	79	110	95	105	86	76	81	49	24	35	
24	81	72	77	111	96	103	108	73	81	59	47	54	
25	84	71	78	108	94	99	87	77	81	66	57	62	
26	82	74	78	98	85	92	88	82	84	57	46	51	
27	83	75	78	99	82	89	87	65	79	51	40	44	
28	83	73	78	101	84	90	---	---	---	57	43	51	
29	80	76	78	104	85	93	---	---	---	61	54	58	
30	82	73	78	109	88	98	11	1	4	63	44	56	
31	---	---	---	104	89	95	1	1	1	---	---	---	
Month	85	70	79	114	67	89	---	---	---	66	0	24	