

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 in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources, 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. Dissolved oxygen, minimum extremes are reported only as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported only at <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	182, April 11, 1999	36, September 19-21, 1999
pH, standard units	7.7, June 14, 15, 16, 17, 2002	5.6, May 3, 1998, September 18, 19, 1999
WATER TEMPERATURE, °C	31.4, August 3, 2002	2.2, January 5, 6, 2001, January 28, 29, 2003
DISSOLVED OXYGEN, mg/L	14.3, January 8, 1999	<1.0, September 21-30, 2003
DISSOLVED OXYGEN, PERCENT SATURATION, %	112, January 8, 1999	<10, September 21-30, 2003

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	173, October 3, 4	76, September 22
pH, standard units	7.2, February 21, 22	5.7, April 27, 28
WATER TEMPERATURE, °C	27.7, August 31	2.2, January 28, 29
DISSOLVED OXYGEN, mg/L	12.6, January 27, 28, 31	<1.0, September 21-30
DISSOLVED OXYGEN, PERCENT SATURATION, %	95, February 22, 23	<10, September 21-30

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	170	167	169	159	158	158	135	127	133	119	117	118
2	171	168	169	158	157	158	138	134	135	117	116	117
3	173	170	171	159	157	158	139	135	136	116	116	116
4	173	170	171	157	154	155	140	135	137	116	114	115
5	170	169	169	155	153	154	137	133	135	114	113	113
6	170	168	169	155	153	154	137	133	135	115	110	112
7	170	167	169	156	154	155	137	133	135	111	109	110
8	170	169	170	156	150	153	138	133	136	110	108	109
9	171	170	171	155	151	153	134	132	133	110	108	109
10	171	169	170	154	144	152	137	132	133	112	110	111
11	171	163	169	149	143	146	141	133	138	113	110	111
12	168	163	166	146	141	144	136	131	132	114	109	111
13	163	154	158	144	137	140	139	136	138	114	109	111
14	164	156	162	145	135	139	148	139	143	115	109	111
15	164	160	162	152	145	148	146	135	138	116	110	112
16	165	149	158	151	136	142	139	135	137	116	111	113
17	149	134	140	140	131	133	137	130	133	116	111	113
18	135	133	134	132	131	131	135	130	132	118	112	114
19	139	135	137	136	132	134	134	132	133	117	112	114
20	144	139	141	135	129	132	134	133	134	118	113	114
21	150	144	147	133	125	128	133	132	132	118	112	115
22	156	150	154	129	128	128	132	131	131	117	113	114
23	159	156	158	130	129	130	131	128	130	118	113	115
24	161	158	159	130	129	130	128	124	126	118	113	115
25	160	155	158	130	129	130	125	123	124	120	114	116
26	156	154	155	133	130	131	123	120	121	118	113	116
27	159	154	156	133	131	133	121	118	119	118	114	116
28	159	157	158	133	131	132	120	117	119	120	115	117
29	159	157	158	133	132	132	120	119	119	123	116	120
30	158	155	156	135	131	133	119	119	119	124	119	122
31	158	156	157	---	---	---	119	119	119	128	118	123
MONTH	173	133	159	159	125	142	148	117	131	128	108	114
	FEBRUARY			MARCH			APRIL			MAY		
1	125	117	121	99	99	99	97	90	96	86	85	85
2	120	117	118	99	97	98	96	95	95	86	86	86
3	121	116	119	97	96	97	96	93	95	87	86	86
4	116	112	114	98	95	96	96	94	95	87	87	87
5	118	113	115	96	94	95	96	94	95	87	87	87
6	121	111	116	95	92	93	95	95	95	87	86	87
7	121	116	117	93	92	93	95	93	94	87	86	87
8	122	110	118	94	93	94	93	93	93	88	87	87
9	118	108	115	96	94	95	93	90	91	89	87	88
10	124	115	119	97	95	96	92	90	90	89	88	89
11	121	112	115	97	95	96	90	88	90	91	89	90
12	113	108	112	97	95	96	89	88	88	91	89	91
13	113	111	112	99	97	98	88	87	88	93	91	92
14	114	112	113	100	98	99	87	87	87	93	92	92
15	117	113	115	101	100	100	87	86	86	93	92	93
16	119	113	117	102	101	102	86	85	86	93	92	93
17	113	100	108	103	102	102	86	85	86	94	93	93
18	114	100	104	103	102	103	86	85	85	94	93	94
19	114	105	109	103	103	103	85	84	84	93	92	93
20	111	100	106	104	103	103	85	83	83	93	93	93
21	113	101	107	103	101	102	83	82	83	93	93	93
22	109	105	106	103	101	102	83	82	82	93	91	92
23	109	103	105	103	102	103	83	82	82	91	87	89
24	107	103	104	103	102	102	83	82	82	88	87	87
25	105	101	103	102	102	102	83	82	82	89	88	89
26	103	102	102	102	99	102	83	79	82	89	89	89
27	102	100	101	102	101	101	85	82	83	89	89	89
28	100	99	99	102	96	101	84	83	83	89	89	89
29	---	---	---	101	99	100	85	84	84	89	89	89
30	---	---	---	100	98	99	85	84	85	89	88	88
31	---	---	---	98	96	97	---	---	---	89	88	88
MONTH	125	99	111	104	92	99	97	79	88	94	85	90

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	89	88	89	93	93	93	95	93	94	102	100	101
2	89	89	89	93	90	92	94	93	94	104	101	102
3	89	88	89	91	89	90	94	93	93	104	102	103
4	89	89	89	92	91	92	93	91	92	104	99	103
5	90	89	89	93	92	92	92	91	91	100	97	98
6	90	89	90	94	93	93	92	90	91	102	100	101
7	90	89	90	94	93	94	---	---	---	103	102	102
8	91	90	90	95	92	93	---	---	---	103	102	103
9	91	90	91	92	92	92	---	---	---	104	101	103
10	93	91	92	92	92	92	---	---	---	104	101	102
11	94	93	93	92	91	92	---	---	---	104	103	103
12	94	93	94	91	90	90	---	---	---	105	102	104
13	94	94	94	91	89	91	---	---	---	104	102	103
14	95	94	94	89	88	89	90	88	89	105	104	104
15	96	94	95	90	87	89	91	89	90	105	103	104
16	95	94	94	91	89	90	92	91	91	105	104	104
17	96	95	95	90	90	90	92	91	92	104	103	104
18	96	95	96	91	90	90	93	92	92	112	98	103
19	96	95	95	91	90	91	93	90	92	112	87	94
20	95	94	95	92	91	91	93	91	92	94	88	90
21	95	94	94	92	91	91	93	91	93	90	77	84
22	94	93	94	92	91	92	94	92	93	82	76	78
23	94	93	93	93	88	92	94	93	94	94	81	90
24	93	93	93	92	88	90	95	94	95	96	92	94
25	93	93	93	93	82	91	96	95	95	94	91	92
26	93	93	93	93	80	83	96	95	96	94	91	92
27	93	93	93	95	80	91	97	96	96	93	90	92
28	93	93	93	96	82	93	97	94	96	92	88	91
29	93	93	93	97	84	93	98	95	96	92	89	91
30	93	93	93	93	81	92	100	97	98	91	89	90
31	---	---	---	95	92	94	101	99	100	---	---	---
MONTH	96	88	92	97	80	91	---	---	---	112	76	98

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.1	7.0	7.0	6.8	6.6	6.6	6.3	6.2	6.2	6.5	6.5	6.5
2	7.1	7.0	7.0	6.7	6.6	6.6	6.3	6.3	6.3	6.5	6.4	6.4
3	7.1	7.0	7.0	6.7	6.6	6.6	6.4	6.3	6.3	6.4	6.4	6.4
4	7.1	7.0	7.0	6.6	6.6	6.6	6.4	6.4	6.4	6.4	6.4	6.4
5	7.0	7.0	7.0	6.6	6.6	6.6	6.5	6.4	6.5	6.4	6.4	6.4
6	7.1	7.0	7.0	6.6	6.5	6.6	6.6	6.5	6.5	6.4	6.4	6.4
7	7.1	7.0	7.0	6.6	6.6	6.6	6.6	6.5	6.6	6.4	6.4	6.4
8	7.1	7.0	7.1	6.7	6.6	6.6	6.5	6.4	6.4	6.4	6.4	6.4
9	7.1	7.0	7.1	6.7	6.6	6.6	6.4	6.3	6.3	6.4	6.4	6.4
10	7.1	7.0	7.1	6.7	6.5	6.6	6.3	6.3	6.3	6.4	6.4	6.4
11	7.1	7.0	7.0	6.5	6.4	6.5	6.3	6.3	6.3	6.5	6.4	6.4
12	7.0	6.8	6.9	6.5	6.4	6.5	6.3	6.3	6.3	6.5	6.5	6.5
13	6.8	6.8	6.8	6.5	6.2	6.3	6.5	6.3	6.4	6.5	6.5	6.5
14	7.0	6.8	6.9	6.3	6.2	6.2	6.7	6.5	6.6	6.6	6.5	6.6
15	7.0	6.9	6.9	6.4	6.2	6.3	6.8	6.7	6.7	6.8	6.6	6.7
16	7.0	6.6	6.8	6.4	6.3	6.3	6.8	6.8	6.8	6.9	6.8	6.8
17	6.6	6.5	6.6	6.3	6.3	6.3	6.9	6.8	6.8	6.9	6.9	6.9
18	6.5	6.5	6.5	6.3	6.2	6.2	7.0	6.9	6.9	6.9	6.9	6.9
19	6.5	6.5	6.5	6.2	6.2	6.2	7.0	7.0	7.0	7.0	6.9	6.9
20	6.6	6.5	6.5	6.4	6.2	6.3	7.0	6.9	7.0	7.0	6.9	7.0
21	6.6	6.4	6.5	6.6	6.4	6.5	6.9	6.8	6.8	7.0	7.0	7.0
22	6.6	6.5	6.6	6.7	6.6	6.6	6.8	6.7	6.7	7.0	7.0	7.0
23	6.6	6.6	6.6	6.6	6.6	6.6	6.7	6.6	6.6	7.1	7.0	7.0
24	6.7	6.6	6.6	6.7	6.6	6.7	6.6	6.5	6.5	7.0	7.0	7.0
25	6.7	6.6	6.6	6.6	6.5	6.6	6.5	6.4	6.5	7.1	7.0	7.0
26	6.7	6.6	6.7	6.5	6.4	6.4	6.4	6.4	6.4	7.1	7.0	7.1
27	6.7	6.6	6.7	6.4	6.3	6.4	6.4	6.4	6.4	7.1	7.0	7.0
28	6.7	6.6	6.7	6.3	6.2	6.2	6.5	6.4	6.4	7.0	6.9	7.0
29	6.7	6.7	6.7	6.2	6.2	6.2	6.5	6.5	6.5	6.9	6.9	6.9
30	6.8	6.7	6.7	6.2	6.2	6.2	6.5	6.5	6.5	6.9	6.9	6.9
31	6.7	6.6	6.6	---	---	---	6.5	6.5	6.5	7.0	6.9	7.0
MONTH	7.1	6.4	6.8	6.8	6.2	6.5	7.0	6.2	6.5	7.1	6.4	6.7
FEBRUARY			MARCH			APRIL			MAY			
1	7.1	7.0	7.1	6.6	6.6	6.6	6.4	6.4	6.4	6.2	6.1	6.2
2	7.0	7.0	7.0	6.6	6.5	6.5	6.4	6.4	6.4	6.2	6.2	6.2
3	7.0	6.9	7.0	6.5	6.5	6.5	6.4	6.3	6.4	6.3	6.2	6.3
4	6.9	6.8	6.8	6.5	6.5	6.5	6.4	6.3	6.4	6.5	6.3	6.4
5	6.9	6.8	6.8	6.5	6.4	6.5	6.4	6.3	6.3	6.5	6.4	6.5
6	7.1	6.9	6.9	6.5	6.5	6.5	6.4	6.3	6.3	6.5	6.5	6.5
7	7.1	7.0	7.1	6.5	6.4	6.4	6.4	6.3	6.3	6.5	6.5	6.5
8	7.1	7.0	7.0	6.5	6.4	6.4	6.3	6.3	6.3	6.5	6.5	6.5
9	7.1	7.0	7.0	6.4	6.4	6.4	6.6	6.3	6.4	6.5	6.5	6.5
10	7.1	7.0	7.0	6.5	6.4	6.4	6.6	6.4	6.5	6.5	6.5	6.5
11	7.0	6.9	6.9	6.5	6.4	6.4	6.4	6.4	6.4	6.5	6.5	6.5
12	6.9	6.8	6.8	6.6	6.5	6.5	6.5	6.4	6.4	6.5	6.5	6.5
13	6.8	6.7	6.8	6.6	6.5	6.6	6.4	6.4	6.4	6.6	6.5	6.5
14	6.9	6.8	6.8	6.7	6.6	6.6	6.4	6.3	6.4	6.6	6.6	6.6
15	7.0	6.8	6.9	6.7	6.6	6.6	6.3	6.2	6.3	6.6	6.6	6.6
16	7.0	6.9	7.0	6.7	6.6	6.6	6.3	6.2	6.3	6.6	6.6	6.6
17	7.0	6.8	6.9	6.7	6.6	6.6	6.3	6.2	6.2	6.6	6.6	6.6
18	6.9	6.8	6.8	6.6	6.6	6.6	6.2	6.2	6.2	6.6	6.6	6.6
19	6.9	6.9	6.9	6.7	6.6	6.6	6.2	6.1	6.1	6.6	6.6	6.6
20	7.0	6.9	6.9	6.6	6.6	6.6	6.1	6.1	6.1	6.6	6.6	6.6
21	7.2	7.0	7.1	6.6	6.5	6.5	6.1	6.0	6.0	6.6	6.6	6.6
22	7.2	7.1	7.1	6.6	6.5	6.5	6.0	6.0	6.0	6.7	6.6	6.6
23	7.1	6.9	7.0	6.6	6.5	6.6	6.0	5.9	5.9	6.7	6.6	6.7
24	7.1	6.9	6.9	6.6	6.5	6.6	5.9	5.9	5.9	6.7	6.6	6.6
25	6.9	6.8	6.8	6.6	6.6	6.6	5.9	5.8	5.9	6.6	6.5	6.6
26	6.8	6.7	6.8	6.6	6.5	6.6	5.8	5.8	5.8	6.6	6.5	6.5
27	6.8	6.6	6.7	6.6	6.5	6.6	5.8	5.7	5.8	6.5	6.5	6.5
28	6.6	6.6	6.6	6.6	6.5	6.5	6.0	5.7	5.8	6.5	6.5	6.5
29	---	---	---	6.5	6.5	6.5	6.2	6.0	6.1	6.5	6.5	6.5
30	---	---	---	6.5	6.4	6.4	6.2	6.1	6.1	6.5	6.5	6.5
31	---	---	---	6.4	6.4	6.4	---	---	---	6.5	6.5	6.5
MONTH	7.2	6.6	6.9	6.7	6.4	6.5	6.6	5.7	6.2	6.7	6.1	6.5

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	25.3	24.9	25.0	16.4	15.9	16.1	9.4	8.7	9.0	8.2	7.3	7.8
2	25.7	25.0	25.3	15.9	15.0	15.5	8.9	8.3	8.6	8.3	8.1	8.2
3	25.9	25.3	25.5	15.0	14.4	14.7	8.8	8.4	8.6	8.5	8.2	8.3
4	26.4	25.6	25.7	14.4	13.8	14.1	8.4	7.5	7.8	8.4	7.6	8.1
5	26.1	25.6	25.8	13.8	13.5	13.6	7.6	7.1	7.3	7.6	7.0	7.2
6	25.9	25.4	25.7	13.7	13.5	13.6	7.3	6.8	7.0	7.1	6.6	6.9
7	25.7	25.3	25.5	13.6	13.3	13.4	6.9	6.4	6.6	6.9	5.8	6.2
8	25.5	25.0	25.3	13.6	13.2	13.4	6.4	6.1	6.2	6.1	5.5	5.8
9	25.0	24.7	24.9	13.7	13.4	13.5	6.2	5.9	6.1	6.8	6.0	6.3
10	24.7	24.5	24.6	14.2	13.6	13.9	5.9	5.8	5.9	7.2	6.8	6.9
11	24.6	24.3	24.4	14.6	14.1	14.4	6.0	5.8	5.9	7.0	6.3	6.5
12	24.3	23.3	23.8	15.0	14.5	14.7	6.1	5.9	6.0	6.3	5.5	5.8
13	23.3	22.8	23.0	15.0	14.8	14.9	6.6	6.0	6.3	5.6	5.0	5.3
14	23.1	22.2	22.6	15.0	14.7	14.8	7.1	6.5	6.8	5.6	5.0	5.3
15	22.2	21.4	21.8	15.0	14.5	14.8	7.4	7.1	7.2	5.5	5.1	5.3
16	21.5	20.9	21.3	14.5	13.8	14.0	7.2	7.1	7.1	5.3	4.7	5.0
17	20.9	20.6	20.7	14.0	13.9	14.0	7.1	6.8	7.0	5.2	4.8	4.9
18	20.6	19.8	20.1	13.9	13.3	13.7	7.3	6.8	7.0	4.8	4.2	4.4
19	19.8	19.3	19.5	13.4	13.0	13.2	7.6	7.1	7.3	4.2	3.8	4.0
20	19.3	19.0	19.1	13.1	12.3	12.7	8.2	7.6	8.0	4.2	3.7	4.0
21	19.0	18.4	18.7	13.1	12.2	12.7	8.2	7.8	7.9	4.2	3.8	3.9
22	18.4	18.2	18.3	13.2	13.0	13.1	7.8	7.4	7.6	4.0	3.5	3.8
23	18.3	18.0	18.2	13.0	12.6	12.8	7.8	7.5	7.7	4.0	3.3	3.5
24	18.2	18.0	18.1	12.8	12.5	12.6	7.8	7.3	7.5	3.3	2.6	2.8
25	18.0	17.9	18.0	12.5	12.0	12.2	7.5	7.0	7.3	2.9	2.6	2.7
26	18.2	17.9	18.0	12.0	11.6	11.8	7.0	6.4	6.6	2.9	2.7	2.8
27	18.1	17.9	18.0	11.6	10.9	11.3	6.4	5.9	6.1	2.9	2.5	2.7
28	18.0	17.7	17.8	10.9	9.7	10.3	6.0	5.6	5.8	2.5	2.2	2.4
29	17.7	17.5	17.6	9.7	9.1	9.3	6.1	5.5	5.8	2.8	2.2	2.5
30	17.5	17.1	17.4	9.5	8.9	9.2	6.6	5.8	6.1	2.9	2.7	2.8
31	17.1	16.4	16.7	---	---	---	7.3	6.6	6.9	3.0	2.9	2.9
MONTH	26.4	16.4	21.5	16.4	8.9	13.3	9.4	5.5	7.0	8.5	2.2	5.0
FEBRUARY			MARCH			APRIL			MAY			
1	3.6	3.0	3.4	6.4	5.5	5.9	12.5	11.0	11.8	17.4	16.7	17.0
2	4.0	3.4	3.7	7.3	6.4	6.8	13.9	11.9	12.8	17.6	17.0	17.3
3	4.2	3.7	3.9	7.6	6.8	7.2	15.0	13.3	14.1	17.6	17.0	17.3
4	4.8	4.1	4.5	7.6	6.4	7.0	15.6	14.2	14.9	17.0	16.1	16.5
5	5.4	4.7	5.0	9.0	7.6	8.2	16.0	15.0	15.5	16.1	15.5	15.7
6	5.7	5.2	5.4	9.4	8.8	9.1	15.9	15.2	15.6	16.4	15.6	16.0
7	5.7	5.4	5.5	9.2	7.3	8.1	15.3	13.5	14.3	17.1	16.2	16.6
8	5.5	4.8	5.2	8.3	6.8	7.5	13.5	12.4	12.9	17.8	17.0	17.3
9	4.8	4.5	4.7	9.6	7.9	8.7	12.4	11.4	11.8	18.2	17.6	17.9
10	4.9	4.7	4.8	9.7	8.7	9.2	11.4	10.9	11.0	18.7	18.0	18.3
11	5.0	4.6	4.8	9.0	8.0	8.3	11.0	10.5	10.8	19.4	18.5	18.9
12	5.2	4.8	5.0	9.4	7.7	8.4	12.0	10.3	11.0	19.7	19.2	19.4
13	5.3	4.8	5.1	10.4	9.0	9.6	12.9	11.5	12.1	19.4	18.7	19.0
14	5.4	5.1	5.2	10.3	9.6	10	13.5	12.1	12.8	18.8	18.2	18.5
15	5.6	5.3	5.5	9.6	8.8	9.2	14.4	12.8	13.5	18.6	18.2	18.4
16	5.5	5.2	5.4	11.1	9.4	10.1	15.4	14.0	14.6	19.0	18.3	18.6
17	5.3	4.8	5.1	11.8	11.0	11.4	15.9	14.9	15.3	18.9	18.1	18.6
18	4.9	4.5	4.7	11.9	11.3	11.6	15.5	14.7	14.9	18.1	17.2	17.7
19	4.7	4.3	4.5	11.7	11.2	11.4	14.9	14.4	14.6	17.2	16.8	17.0
20	4.5	3.8	4.2	11.9	11.2	11.5	14.8	13.8	14.3	17.2	16.4	16.8
21	4.5	4.4	4.5	12.7	11.9	12.3	14.9	14.1	14.5	17.7	17.0	17.4
22	5.6	4.4	5.0	13.4	12.1	12.7	15.5	14.6	15.0	17.7	17.5	17.6
23	7.1	5.6	6.5	13.1	12.4	12.8	15.5	14.8	15.2	17.5	17.3	17.4
24	7.0	6.0	6.4	13.6	12.3	12.9	15.3	14.5	15.0	17.6	17.4	17.5
25	7.3	6.6	6.9	14.0	12.5	13.2	15.1	14.7	14.9	17.8	17.2	17.5
26	6.8	6.1	6.3	14.6	13.0	13.8	15.5	14.9	15.2	18.2	17.7	18.0
27	6.1	5.8	5.9	14.4	13.7	14.1	15.7	15.1	15.4	18.2	17.8	18.0
28	5.9	5.6	5.7	14.8	13.3	14.0	16.1	15.2	15.6	17.9	17.4	17.7
29	---	---	---	15.4	14.3	14.8	16.6	15.6	16.0	18.0	17.5	17.8
30	---	---	---	15.4	12.9	14.5	17.1	16.2	16.6	18.4	17.7	18.1
31	---	---	---	12.9	11.6	12.1	---	---	---	18.4	18.1	18.3
MONTH	7.3	3.0	5.1	15.4	5.5	10.5	17.1	10.3	14.1	19.7	15.5	17.7

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	6.2	5.4	5.9	8.0	7.7	7.8	8.2	7.8	8.0	9.7	9.3	9.5
2	6.2	5.7	6.0	8.3	7.9	8.1	8.5	8.2	8.4	9.3	9.1	9.2
3	6.2	5.4	6.0	8.5	8.2	8.3	8.8	8.5	8.6	9.2	8.9	9.1
4	6.2	5.3	5.8	8.7	8.3	8.5	9.3	8.8	9.0	9.2	8.9	9.1
5	6.1	5.5	5.9	8.7	8.4	8.6	9.8	9.3	9.6	9.4	9.2	9.3
6	6.3	5.6	6.0	9.0	8.4	8.7	10.0	9.6	9.8	9.5	9.3	9.4
7	6.2	5.8	6.0	9.0	8.8	8.9	10.1	9.9	10	9.8	9.4	9.6
8	6.3	5.8	6.1	9.1	8.8	9.0	9.9	9.7	9.8	9.9	9.7	9.8
9	6.3	6.0	6.1	9.2	9.0	9.1	9.7	9.5	9.6	9.8	9.6	9.7
10	6.3	5.8	6.1	9.2	9.0	9.1	9.7	9.5	9.6	9.7	9.5	9.6
11	6.5	5.8	6.1	9.1	8.8	9.0	9.7	9.6	9.6	10.0	9.7	9.8
12	6.4	5.4	6.1	9.0	8.7	8.8	9.8	9.6	9.7	10.5	9.9	10.2
13	5.9	5.2	5.6	8.8	7.7	8.2	10.1	9.8	9.9	10.8	10.4	10.6
14	6.8	5.6	6.4	8.0	7.5	7.8	10.3	10.1	10.2	11.0	10.7	10.9
15	6.7	6.2	6.5	8.3	7.8	8.0	10.3	10.1	10.2	11.0	10.2	10.7
16	6.8	5.3	6.0	8.4	8.1	8.2	10.4	10.3	10.3	11.2	10.1	10.8
17	5.4	4.7	5.1	8.4	8.0	8.2	10.4	10.3	10.3	11.4	11.1	11.2
18	5.3	5.0	5.1	8.1	7.7	7.9	10.5	10.3	10.4	11.6	11.2	11.4
19	5.6	5.2	5.4	8.1	7.8	8.0	10.4	10.2	10.4	11.7	11.4	11.6
20	6.0	5.5	5.7	8.3	8.0	8.1	10.3	9.9	10.1	11.8	11.5	11.7
21	6.6	6.0	6.2	8.2	7.8	7.9	10.0	9.7	9.8	12.0	11.6	11.9
22	6.8	6.3	6.6	8.1	7.8	8.0	9.9	9.6	9.7	12.2	11.8	12.0
23	7.1	6.6	6.8	8.0	7.8	7.9	9.6	9.4	9.5	12.1	11.8	12.0
24	7.3	6.9	7.1	8.1	7.9	8.1	9.5	9.2	9.3	12.3	12.0	12.2
25	7.3	7.0	7.2	8.1	8.0	8.1	9.3	9.1	9.2	12.4	12.2	12.3
26	7.5	7.2	7.3	8.2	7.8	8.0	9.2	9.1	9.1	12.5	12.2	12.4
27	7.4	7.2	7.3	7.9	7.7	7.8	9.4	9.1	9.3	12.6	12.2	12.4
28	7.5	7.2	7.3	7.8	7.5	7.6	9.9	9.3	9.6	12.6	12.4	12.5
29	7.6	7.3	7.4	7.6	7.4	7.5	10.1	9.8	10	12.5	12.1	12.3
30	7.8	7.5	7.6	7.8	7.6	7.7	10.0	9.8	10	12.3	12.1	12.2
31	7.8	7.7	7.7	---	---	---	9.9	9.7	9.8	12.6	12.2	12.4
MONTH	7.8	4.7	6.3	9.2	7.4	8.2	10.5	7.8	9.6	12.6	8.9	10.9
FEBRUARY			MARCH			APRIL			MAY			
1	12.5	12.1	12.3	10.6	10.2	10.4	7.8	7.0	7.3	6.2	6.0	6.1
2	12.3	12.0	12.1	10.4	9.9	10.2	7.7	7.2	7.4	6.0	5.7	5.9
3	12.1	11.6	11.8	10.3	9.8	10.0	7.8	7.0	7.3	5.8	5.6	5.7
4	11.6	11.1	11.3	10.5	10.0	10.2	7.6	6.9	7.2	5.8	5.6	5.7
5	11.2	10.9	11.1	10.2	9.6	9.8	7.3	6.8	7.0	6.0	5.7	5.9
6	11.3	10.9	11.1	9.8	9.2	9.4	6.9	6.4	6.7	6.0	5.5	5.8
7	11.3	10.9	11.1	9.3	8.9	9.1	7.1	6.4	6.6	5.5	5.4	5.5
8	11.4	11.0	11.1	9.8	9.1	9.4	6.8	6.4	6.6	5.4	5.3	5.3
9	11.5	11.2	11.4	9.7	9.2	9.4	7.3	6.7	7.1	5.3	5.1	5.2
10	11.5	11.0	11.3	9.7	9.1	9.4	7.3	6.9	7.2	5.2	4.9	5.1
11	11.1	10.7	10.9	9.7	8.5	9.3	7.3	7.1	7.2	5.0	4.8	4.9
12	10.8	10.4	10.6	9.2	8.2	8.7	7.6	7.2	7.4	4.8	4.7	4.7
13	10.8	10.4	10.6	9.3	8.3	8.8	7.5	7.3	7.4	5.0	4.7	4.8
14	11.1	10.5	10.8	9.3	8.3	8.8	7.4	7.2	7.3	5.1	4.9	5.0
15	11.1	10.8	10.9	9.4	8.6	9.0	7.2	7.0	7.1	5.1	5.0	5.0
16	11.3	10.9	11.1	9.4	8.5	8.9	7.0	6.7	6.9	5.2	5.0	5.2
17	11.2	10.7	10.8	9.1	8.2	8.7	6.8	6.6	6.7	5.3	5.2	5.2
18	11.2	10.7	10.9	8.8	8.0	8.4	6.7	6.3	6.5	5.5	5.2	5.3
19	11.5	10.9	11.2	8.8	7.9	8.4	6.5	6.3	6.4	5.7	5.5	5.6
20	12.1	11.3	11.7	8.4	7.8	8.1	6.7	6.3	6.5	5.8	5.5	5.7
21	12.2	11.8	12.0	7.9	7.5	7.7	6.6	6.4	6.5	5.9	5.6	5.8
22	12.2	11.6	12.0	8.4	7.2	7.8	6.5	6.2	6.3	6.2	5.8	6.0
23	11.9	10.8	11.3	8.6	7.6	8.1	6.5	6.2	6.3	6.6	6.1	6.4
24	11.5	10.8	11.1	8.8	7.8	8.2	6.6	6.4	6.5	6.4	5.5	5.8
25	11.0	10.5	10.7	8.8	7.8	8.2	6.6	6.3	6.4	5.5	5.3	5.4
26	10.9	10.4	10.6	8.5	7.6	8.0	6.4	6.1	6.2	5.4	5.1	5.3
27	10.7	10.2	10.5	8.2	7.4	7.8	6.3	5.9	6.2	5.1	4.8	5.0
28	10.7	10.2	10.4	7.9	7.2	7.5	6.6	6.1	6.3	5.0	4.7	4.9
29	---	---	---	7.4	6.9	7.2	6.5	6.3	6.4	5.1	4.9	5.0
30	---	---	---	7.0	6.3	6.6	6.4	6.2	6.2	5.2	5.0	5.0
31	---	---	---	7.3	6.2	6.8	---	---	---	5.2	5.1	5.2
MONTH	12.5	10.2	11.2	10.6	6.2	8.7	7.8	5.9	6.8	6.6	4.7	5.4

ROANOKE RIVER BASIN

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	5.3	5.1	5.2	3.6	3.4	3.5	2.9	2.8	2.9	3.0	2.8	2.9
2	5.3	5.2	5.2	4.0	3.5	3.7	2.8	2.7	2.8	3.2	2.9	3.0
3	5.2	5.1	5.2	4.0	3.7	3.8	2.8	2.7	2.7	3.4	2.9	3.1
4	5.1	4.9	5.0	3.7	3.6	3.7	2.8	2.6	2.7	4.2	3.1	3.3
5	4.9	4.7	4.8	3.7	3.6	3.6	2.7	2.5	2.6	4.2	3.2	3.6
6	4.8	4.7	4.8	3.6	3.5	3.6	2.8	2.6	2.7	3.5	3.2	3.3
7	4.8	4.7	4.8	3.6	3.5	3.6	---	---	---	3.8	3.4	3.6
8	4.7	4.5	4.6	3.6	3.4	3.5	---	---	---	4.0	3.8	3.9
9	4.5	4.4	4.4	3.4	3.2	3.3	---	---	---	4.1	3.8	4.0
10	4.5	4.1	4.4	3.4	3.3	3.3	---	---	---	4.1	3.8	4.0
11	4.2	4.0	4.1	3.5	3.2	3.3	---	---	---	4.5	4.1	4.3
12	4.0	3.9	4.0	3.8	3.4	3.5	---	---	---	4.9	4.5	4.7
13	4.0	3.8	3.9	3.6	3.3	3.4	---	---	---	5.0	4.7	4.8
14	3.9	3.7	3.8	3.7	3.5	3.6	3.2	2.7	3.0	5.0	4.7	4.8
15	3.9	3.6	3.7	3.7	3.4	3.6	3.0	2.7	2.8	5.0	4.9	4.9
16	3.9	3.6	3.7	3.6	3.4	3.5	---	---	---	5.1	4.8	5.0
17	3.7	3.5	3.6	3.6	3.4	3.5	---	---	---	5.4	4.9	5.1
18	3.6	3.5	3.6	3.7	3.4	3.5	2.7	2.4	2.5	6.4	4.9	5.8
19	3.7	3.5	3.6	3.7	3.6	3.6	2.9	2.3	2.5	5.8	2.8	3.8
20	3.6	3.5	3.5	3.8	3.6	3.6	2.7	2.3	2.4	2.8	1.3	2.1
21	3.8	3.6	3.7	3.8	3.6	3.7	2.5	2.3	2.4	1.4	0.3	0.9
22	4.1	3.8	3.9	3.7	3.5	3.6	2.5	2.4	2.4	0.4	0.0	0.1
23	4.2	4.0	4.1	4.1	3.1	3.6	2.5	2.3	2.4	0.1	0.0	0.0
24	4.2	4.0	4.2	4.0	3.1	3.5	2.5	2.3	2.4	0.1	0.0	0.0
25	4.2	4.0	4.1	3.3	3.1	3.2	2.7	2.5	2.6	0.1	0.0	0.0
26	4.2	4.0	4.1	3.5	3.1	3.3	2.6	2.5	2.6	0.1	0.0	0.0
27	4.0	3.7	3.9	3.4	3.1	3.3	2.5	2.4	2.4	0.1	0.0	0.0
28	3.9	3.7	3.8	3.4	3.0	3.2	2.5	2.2	2.4	0.1	0.0	0.1
29	3.8	3.6	3.6	3.8	3.0	3.3	2.6	2.2	2.4	0.4	0.1	0.1
30	3.7	3.5	3.6	3.6	2.8	3.2	2.9	2.3	2.5	1.1	0.3	0.7
31	---	---	---	2.9	2.8	2.8	3.0	2.4	2.7	---	---	---
MONTH	5.3	3.5	4.2	4.1	2.8	3.5	---	---	---	6.4	0.0	2.7

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	75	65	72	81	78	80	71	67	69	81	79	80
2	75	69	73	83	80	81	74	70	72	79	77	78
3	76	66	73	84	81	82	75	73	74	78	76	77
4	77	65	72	84	81	82	78	75	76	78	75	77
5	75	68	72	84	81	83	81	78	79	78	76	77
6	77	69	74	87	81	84	83	79	81	79	76	77
7	76	71	73	87	84	85	83	80	82	79	77	78
8	77	71	74	88	84	86	80	78	79	80	77	79
9	76	72	74	89	86	88	78	76	77	80	78	79
10	76	70	73	90	87	89	78	76	77	80	78	79
11	78	70	73	89	87	88	78	77	77	82	79	80
12	77	64	72	89	86	87	79	77	78	84	80	82
13	69	61	65	87	76	81	83	79	80	86	82	84
14	79	66	75	80	74	77	85	83	84	88	84	86
15	77	71	74	82	77	80	86	84	85	87	81	84
16	77	60	68	82	78	80	86	85	85	88	80	84
17	61	53	57	82	78	80	86	85	85	89	87	88
18	58	55	56	79	75	77	87	85	86	89	87	88
19	61	57	59	78	75	76	87	85	86	90	87	89
20	65	60	62	79	75	77	87	84	86	91	88	89
21	71	65	67	77	74	75	84	82	83	92	89	90
22	72	67	70	77	74	76	83	80	81	93	90	91
23	76	70	73	76	74	75	81	79	80	92	90	91
24	77	73	75	77	74	76	80	77	78	91	89	90
25	77	74	76	76	74	75	78	75	77	92	90	91
26	80	76	77	76	72	74	75	74	75	93	90	92
27	79	76	77	73	70	71	76	74	75	93	90	92
28	79	76	77	71	66	68	79	74	77	92	90	92
29	80	77	78	66	64	65	82	78	80	91	89	90
30	82	78	80	68	66	67	82	79	80	91	89	90
31	81	79	80	---	---	---	82	80	81	94	91	92
MONTH	82	53	72	90	64	79	87	67	80	94	75	85
FEBRUARY			MARCH			APRIL			MAY			
1	93	91	92	86	81	83	73	64	68	64	62	63
2	93	91	92	85	82	83	75	67	70	62	60	61
3	92	89	90	86	80	83	77	67	71	61	58	59
4	89	86	88	88	81	84	77	67	72	59	57	58
5	89	85	87	87	81	84	74	68	71	60	58	59
6	90	87	88	85	80	82	70	64	67	61	56	59
7	90	87	88	80	75	77	69	62	65	57	55	56
8	89	87	88	84	75	79	64	61	63	57	55	56
9	90	87	89	85	78	81	67	63	65	56	54	55
10	90	86	88	86	78	81	66	63	65	55	53	54
11	86	84	85	83	72	79	66	64	65	54	51	53
12	85	82	83	80	69	74	71	65	68	53	51	51
13	85	81	83	83	72	77	70	67	69	54	51	52
14	88	83	85	83	73	78	70	67	69	55	52	53
15	88	85	87	82	74	78	71	66	68	54	53	54
16	89	87	88	86	74	79	70	66	68	56	53	55
17	89	84	85	84	75	79	69	65	67	57	55	56
18	87	83	85	81	73	77	67	62	64	58	55	55
19	90	84	87	81	72	77	64	62	63	59	57	58
20	94	87	90	77	72	74	66	61	63	60	57	58
21	94	91	93	75	70	72	65	62	64	62	58	60
22	95	92	94	81	67	73	65	61	63	65	61	63
23	95	89	92	82	71	76	65	61	63	69	64	67
24	93	87	90	85	73	78	66	63	64	67	58	61
25	90	86	88	86	73	78	66	62	63	58	56	57
26	89	84	86	84	72	78	64	60	62	57	54	56
27	86	82	84	80	71	75	64	59	62	54	51	53
28	85	81	83	78	69	73	67	61	63	53	49	51
29	---	---	---	74	68	71	67	63	65	53	51	53
30	---	---	---	70	60	65	66	63	64	55	53	53
31	---	---	---	69	58	63	---	---	---	56	54	55
MONTH	95	81	88	88	58	77	77	59	66	69	49	57

ROANOKE RIVER BASIN

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
		JUNE			JULY			AUGUST			SEPTEMBER		
1	57	54	55	43	40	41	36	34	35	38	35	37	
2	57	55	55	47	41	44	35	33	34	40	37	38	
3	56	54	55	47	43	45	34	33	33	43	37	39	
4	55	53	54	44	42	43	34	32	33	53	39	42	
5	54	52	53	44	42	43	33	30	32	53	40	44	
6	53	51	52	43	42	43	34	32	33	43	39	41	
7	53	52	53	43	42	43	---	---	---	46	42	44	
8	52	50	51	43	41	42	---	---	---	49	46	47	
9	51	49	50	42	39	40	---	---	---	50	46	48	
10	51	47	50	42	40	40	---	---	---	49	46	48	
11	48	45	46	43	39	40	---	---	---	54	49	51	
12	46	45	46	46	41	43	---	---	---	58	53	56	
13	47	44	45	43	40	41	---	---	---	59	56	57	
14	45	43	44	44	42	43	39	33	37	59	56	57	
15	46	42	44	44	41	43	37	33	35	59	58	58	
16	46	42	44	44	41	42	---	---	---	61	57	59	
17	43	41	42	44	41	42	---	---	---	65	58	61	
18	42	41	42	45	41	43	33	29	31	76	57	68	
19	43	41	42	45	43	43	36	28	30	68	33	45	
20	42	41	41	46	43	44	33	28	29	33	15	24	
21	44	41	43	46	43	45	31	28	30	16	4	10	
22	46	43	44	45	42	44	31	30	30	5	0	2	
23	48	45	47	50	38	44	31	28	30	1	0	0	
24	48	45	47	48	37	42	31	28	30	1	0	0	
25	49	46	47	40	37	39	33	31	32	1	0	0	
26	48	46	47	42	37	40	32	30	32	1	0	0	
27	47	44	45	42	38	40	31	29	30	1	0	0	
28	46	44	45	41	37	39	31	28	30	1	0	0	
29	45	42	43	47	37	40	33	27	30	5	1	2	
30	44	42	43	44	34	39	37	29	32	12	3	8	
31	---	---	---	36	34	34	38	30	35	---	---	---	
MONTH	57	41	47	50	34	42	---	---	---	76	0	33	