

ROANOKE RIVER BASIN

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC

LOCATION.--Lat 35°56'39", long 77°04'10", Bertie County, Hydrologic Unit 03010107, on left bank, 0.1 mi downstream of Coniott Creek, and 0.65 mi south-southeast of Quitsna.

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1998 to current year.

pH: January 1998 to current year.

WATER TEMPERATURE: January 1998 to current year.

DISSOLVED OXYGEN: January 1998 to current year.

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

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

REMARKS.--Station operated in cooperation with U.S. Fish and Wildlife Service 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	215, August 30, 2001	32, September 18, 19, 1999
pH, standard units	7.9, March 8, 1998	5.7, September 18-21, 1999
WATER TEMPERATURE, °C	31.1, August 1, 1999	2.3, January 4, 2001
DISSOLVED OXYGEN, mg/L	14.2, January 7, 1999	2.2, May 15, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	121, July 5, 6, 1999	26, May 15, 2000

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	215, August 30	57, June 19
pH, standard units	7.7, June 14, 15	6.0, March 21-24
WATER TEMPERATURE, °C	29.8, August 12	2.3, January 4
DISSOLVED OXYGEN, mg/L	13.9, January 4	2.7, June 17
DISSOLVED OXYGEN, PERCENT SATURATION,%	105, February 27	31, November 24

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	109	100	105	123	121	122	124	116	122	107	106	107
2	111	102	107	121	113	118	130	116	124	110	107	107
3	111	99	105	115	105	109	130	127	129	121	109	115
4	111	99	105	119	107	113	127	114	123	121	118	120
5	112	108	110	117	104	107	114	107	110	118	105	109
6	112	104	109	112	103	108	128	110	120	114	103	105
7	120	111	117	120	107	113	130	127	128	116	106	111
8	124	120	123	120	108	113	127	125	126	117	111	115
9	128	110	118	122	113	120	129	118	127	116	106	110
10	129	116	127	122	119	121	128	113	119	127	107	120
11	122	104	110	123	114	118	123	111	117	128	114	122
12	123	107	119	120	113	116	122	107	113	120	114	118
13	122	109	114	120	112	117	117	107	113	123	119	119
14	123	105	115	126	112	118	126	115	123	123	119	122
15	128	104	112	126	124	125	122	112	115	---	---	---
16	128	114	120	124	121	123	129	115	123	122	116	119
17	132	124	129	123	121	121	126	118	123	122	107	115
18	132	127	131	125	123	124	131	119	124	121	107	117
19	128	125	127	124	113	120	133	131	132	127	104	116
20	128	121	124	122	114	119	133	123	130	116	102	109
21	132	128	130	125	112	120	123	114	119	107	103	105
22	131	127	129	121	111	116	124	109	117	114	103	110
23	131	119	128	120	113	116	111	106	108	114	110	112
24	133	119	126	114	112	113	115	108	111	115	111	113
25	135	127	132	127	113	119	118	112	115	111	109	110
26	131	119	127	128	123	126	119	109	114	118	109	113
27	119	110	113	126	124	125	128	110	119	116	99	106
28	118	107	114	124	119	121	129	125	127	117	107	115
29	121	106	114	122	114	119	126	117	123	107	101	103
30	126	120	124	123	114	119	117	108	112	109	102	106
31	126	123	124	---	---	---	109	104	106	110	102	106
MONTH	135	99	119	128	103	118	133	104	120	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	113	107	110	141	127	135	133	128	130	133	130	132
2	115	109	112	150	130	140	139	126	130	135	130	133
3	124	108	115	152	134	141	135	126	128	137	131	135
4	125	114	119	141	129	135	128	127	127	140	137	138
5	118	110	115	139	128	134	129	127	128	---	---	---
6	124	109	117	140	130	135	129	124	127	141	135	139
7	123	108	115	147	134	144	---	---	---	144	139	141
8	124	114	119	146	125	137	---	---	---	142	139	140
9	124	113	118	127	124	126	124	122	123	141	137	138
10	129	117	122	144	127	134	---	---	---	139	136	138
11	133	125	130	150	133	141	123	121	122	140	138	139
12	128	121	125	141	132	137	125	122	124	142	140	141
13	133	118	125	155	135	144	125	123	124	145	140	143
14	133	117	128	154	145	152	126	124	125	146	143	145
15	125	116	119	148	131	135	127	124	126	145	141	143
16	131	115	122	151	135	141	127	123	125	143	139	141
17	126	119	121	155	138	146	127	119	125	141	138	139
18	137	122	130	147	135	144	126	123	125	140	137	139
19	136	129	133	146	136	139	126	123	124	139	132	135
20	130	121	128	146	140	143	127	123	125	134	132	133
21	126	118	122	154	143	149	127	125	126	133	128	130
22	131	118	126	152	137	145	129	126	127	129	125	127
23	136	117	125	139	128	133	130	127	129	127	123	125
24	140	116	126	140	128	134	130	129	130	125	123	124
25	119	116	117	140	129	133	131	129	130	128	125	126
26	128	118	124	138	131	133	132	128	129	128	124	126
27	128	119	121	137	131	134	131	129	130	124	122	123
28	139	128	137	138	132	135	132	129	130	125	114	122
29	---	---	---	140	130	133	133	130	131	121	116	120
30	---	---	---	137	131	133	134	132	133	120	118	119
31	---	---	---	144	131	134	---	---	---	120	118	119
MONTH	140	107	122	155	124	138	---	---	---	---	---	---

ROANOKE RIVER BASIN

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	120	118	119	120	106	113	116	114	115	145	133	142
2	119	113	116	123	109	118	117	115	116	137	131	133
3	116	112	115	123	113	117	119	115	116	133	127	129
4	113	109	111	119	114	115	127	119	123	142	126	136
5	111	110	110	125	115	120	125	121	124	143	125	133
6	110	108	109	126	113	122	125	116	122	151	143	148
7	110	97	105	123	109	115	125	114	121	152	150	151
8	97	91	93	122	109	115	124	111	115	153	150	151
9	96	91	94	124	109	117	130	116	122	152	137	146
10	100	95	98	128	113	117	128	116	119	150	134	140
11	103	100	101	129	108	118	134	117	126	146	122	131
12	103	101	102	119	108	111	133	118	122	148	123	140
13	106	103	105	119	108	111	141	133	139	136	121	128
14	108	105	106	117	107	110	140	125	132	124	117	120
15	108	102	106	117	107	111	136	126	131	141	122	128
16	108	92	103	112	107	110	136	133	134	135	122	128
17	---	---	---	111	108	110	137	127	132	135	127	130
18	71	59	65	129	111	120	145	137	140	144	135	138
19	63	57	60	132	129	130	145	138	143	144	139	142
20	80	62	69	132	129	130	138	113	121	143	142	142
21	84	79	81	131	120	125	134	120	126	144	133	141
22	---	---	---	132	127	131	136	134	135	146	131	138
23	106	89	100	132	122	128	136	118	127	133	128	131
24	101	96	99	131	125	129	140	122	133	141	126	130
25	105	100	102	128	114	122	144	128	137	152	132	145
26	107	100	105	121	114	117	147	137	145	151	119	140
27	114	104	109	118	112	115	144	140	143	119	115	116
28	115	102	109	117	110	113	140	123	127	117	116	116
29	112	103	106	112	109	110	145	123	137	131	116	120
30	118	106	111	116	112	115	215	134	144	---	---	---
31	---	---	---	117	110	115	144	132	139	---	---	---
MONTH	---	---	---	132	106	118	215	111	129	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.2	7.2	7.2	7.2	7.2	6.7	6.6	6.7	7.1	7.0	7.1
2	7.4	7.3	7.3	7.2	7.1	7.2	6.7	6.6	6.6	7.1	7.0	7.0
3	7.4	7.3	7.4	7.1	7.1	7.1	6.8	6.6	6.7	7.1	7.0	7.1
4	7.4	7.3	7.4	7.1	7.1	7.1	6.9	6.8	6.8	7.0	6.9	7.0
5	7.4	7.3	7.4	7.1	7.1	7.1	6.9	6.7	6.8	7.0	6.9	6.9
6	7.4	7.2	7.3	7.3	7.1	7.1	6.9	6.8	6.8	7.0	6.9	6.9
7	7.4	7.2	7.3	7.3	7.2	7.3	6.8	6.8	6.8	7.1	7.0	7.0
8	7.4	7.3	7.4	7.3	7.2	7.3	6.9	6.8	6.8	7.1	7.0	7.1
9	7.4	7.4	7.4	7.3	7.2	7.3	6.9	6.8	6.9	7.1	7.0	7.1
10	7.4	7.4	7.4	7.3	7.2	7.3	6.9	6.8	6.8	7.4	7.0	7.1
11	7.5	7.3	7.4	7.3	7.2	7.3	6.9	6.8	6.9	7.2	7.0	7.1
12	7.4	7.3	7.3	7.3	7.3	7.3	6.9	6.8	6.8	7.2	7.0	7.1
13	7.4	7.3	7.3	7.4	7.3	7.3	7.0	6.9	6.9	7.2	7.0	7.1
14	7.4	7.3	7.3	7.4	7.3	7.4	7.0	6.8	6.9	7.2	7.1	7.1
15	7.4	7.3	7.3	7.4	7.4	7.4	7.0	6.8	6.9	---	---	---
16	7.3	7.2	7.3	7.4	7.4	7.4	7.0	6.8	7.0	7.4	7.2	7.3
17	7.2	7.1	7.2	7.4	7.3	7.4	6.8	6.7	6.8	7.5	7.3	7.4
18	7.2	7.1	7.2	7.4	7.3	7.3	6.9	6.8	6.8	7.5	7.3	7.4
19	7.2	7.2	7.2	7.4	7.3	7.3	6.9	6.8	6.9	7.5	7.2	7.4
20	7.2	7.2	7.2	7.4	7.3	7.4	6.9	6.8	6.8	7.3	7.2	7.3
21	7.2	7.1	7.2	7.5	7.3	7.4	6.8	6.7	6.8	7.3	7.2	7.3
22	7.1	7.1	7.1	7.5	7.3	7.3	6.9	6.8	6.9	7.3	7.1	7.2
23	7.2	7.1	7.1	7.6	7.4	7.5	6.9	6.9	6.9	7.2	7.1	7.1
24	7.2	7.1	7.1	7.4	7.2	7.3	7.0	6.9	7.0	7.1	7.0	7.1
25	7.2	7.1	7.1	7.3	7.0	7.2	7.1	7.0	7.0	7.1	7.0	7.1
26	7.2	7.1	7.1	7.0	6.8	6.9	7.0	7.0	7.0	7.2	7.1	7.2
27	7.2	7.0	7.0	6.9	6.7	6.8	7.0	7.0	7.0	7.2	7.1	7.1
28	7.0	7.0	7.0	6.8	6.7	6.7	7.0	6.9	7.0	7.2	7.1	7.1
29	7.0	7.0	7.0	6.7	6.6	6.7	7.1	7.0	7.0	7.2	7.1	7.1
30	7.1	7.0	7.0	6.7	6.6	6.6	7.1	7.0	7.0	7.1	7.1	7.1
31	7.2	7.1	7.2	---	---	---	7.0	7.0	7.0	7.1	7.0	7.1
MONTH	7.5	7.0	7.2	7.6	6.6	7.2	7.1	6.6	6.9	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.2	7.1	7.1	6.4	6.2	6.3	7.2	7.1	7.1	6.9	6.9	6.9
2	7.2	7.1	7.2	6.6	6.4	6.5	7.3	7.2	7.2	6.9	6.9	6.9
3	7.2	7.1	7.2	6.6	6.5	6.6	7.3	7.2	7.2	7.0	6.9	6.9
4	7.1	7.1	7.1	6.7	6.6	6.6	7.3	7.2	7.3	6.9	6.9	6.9
5	7.2	7.1	7.1	6.7	6.6	6.7	7.3	7.2	7.3	7.0	6.9	6.9
6	7.3	7.2	7.2	6.8	6.6	6.7	7.4	7.2	7.3	7.0	6.9	6.9
7	7.3	7.1	7.2	6.8	6.6	6.7	7.4	7.2	7.3	7.0	6.9	7.0
8	7.1	6.9	7.0	6.8	6.7	6.8	7.3	7.2	7.3	7.0	6.9	7.0
9	7.0	7.0	7.0	6.8	6.7	6.8	7.3	7.2	7.3	7.0	6.9	6.9
10	7.1	7.0	7.1	6.8	6.7	6.7	7.3	7.2	7.2	7.0	6.9	6.9
11	7.1	7.1	7.1	6.8	6.6	6.7	7.2	7.1	7.1	7.0	6.9	6.9
12	7.2	6.9	7.1	6.7	6.7	6.7	7.2	7.1	7.1	6.9	6.8	6.9
13	7.6	6.9	7.1	6.8	6.7	6.8	7.1	6.9	7.0	6.9	6.8	6.8
14	7.7	7.5	7.7	6.9	6.8	6.9	7.1	6.8	7.0	6.9	6.8	6.9
15	7.7	7.4	7.5	6.8	6.7	6.8	7.0	7.0	7.0	6.9	6.9	6.9
16	7.6	7.0	7.3	6.8	6.7	6.7	7.0	7.0	7.0	7.0	6.9	7.0
17	---	---	---	6.9	6.8	6.8	7.1	6.9	7.0	7.1	7.0	7.0
18	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9	7.1	6.9	7.0
19	6.9	6.7	6.7	7.2	7.0	7.1	6.9	6.8	6.9	7.0	6.9	7.0
20	6.7	6.4	6.5	7.2	7.1	7.1	6.8	6.7	6.8	7.0	6.9	6.9
21	6.6	6.5	6.5	7.2	7.1	7.1	6.8	6.8	6.8	6.9	6.9	6.9
22	---	---	---	7.1	7.0	7.0	6.9	6.8	6.8	6.9	6.9	6.9
23	6.7	6.6	6.6	7.0	6.9	7.0	6.9	6.8	6.8	6.9	6.9	6.9
24	6.7	6.6	6.6	7.2	7.0	7.2	6.8	6.8	6.8	7.0	6.9	6.9
25	6.6	6.6	6.6	7.3	7.2	7.2	6.9	6.8	6.8	6.9	6.8	6.9
26	6.7	6.4	6.6	7.3	7.2	7.2	6.8	6.8	6.8	6.9	6.6	6.8
27	6.6	6.5	6.6	7.2	7.2	7.2	6.9	6.8	6.8	6.8	6.7	6.8
28	6.7	6.5	6.6	7.2	6.9	7.0	6.9	6.8	6.8	7.0	6.8	6.9
29	6.6	6.5	6.6	7.0	6.9	7.0	6.9	6.8	6.8	7.1	6.9	7.0
30	6.5	6.3	6.4	7.1	7.0	7.0	7.3	6.8	6.8	---	---	---
31	---	---	---	7.2	6.9	7.1	---	---	---	---	---	---
MONTH	---	---	---	7.3	6.2	6.9	---	---	---	---	---	---

ROANOKE RIVER BASIN

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.1	20.8	21.0	16.3	15.2	15.7	10.0	9.4	9.6	4.2	3.2	3.5
2	21.2	20.8	21.1	15.9	15.1	15.5	9.4	8.5	9.0	4.0	2.9	3.2
3	21.6	21.1	21.4	15.9	15.5	15.8	8.5	7.1	7.9	3.6	2.6	2.9
4	22.4	21.4	21.9	16.1	15.6	15.8	7.4	6.3	6.8	2.7	2.3	2.5
5	22.8	21.8	22.3	16.7	15.9	16.4	7.0	6.0	6.3	2.8	2.6	2.7
6	23.4	22.5	23.0	16.1	15.7	15.9	6.2	5.3	5.7	3.1	2.6	2.8
7	23.7	22.9	23.3	15.9	15.6	15.8	6.1	5.3	5.7	3.4	2.5	2.9
8	23.5	21.2	22.3	15.9	15.4	15.7	6.7	5.6	6.2	3.5	3.4	3.4
9	21.2	19.6	20.5	16.2	15.6	15.9	7.2	6.5	6.9	4.3	3.5	3.7
10	19.6	18.5	19.1	17.0	16.1	16.6	7.4	7.2	7.3	4.9	3.4	3.9
11	18.5	17.3	17.9	17.0	16.6	16.8	7.5	7.1	7.4	4.6	3.7	4.0
12	18.0	17.0	17.5	16.6	15.8	16.2	8.0	7.4	7.7	4.8	4.0	4.3
13	18.7	17.5	18.1	15.8	15.3	15.5	7.8	7.4	7.6	5.3	4.4	4.8
14	18.8	17.7	18.3	15.3	14.6	15.0	7.8	7.4	7.6	5.7	4.8	5.1
15	18.9	18.2	18.6	14.6	13.9	14.2	8.1	7.6	7.8	---	---	---
16	19.0	18.1	18.6	13.9	13.3	13.5	7.8	7.7	7.7	6.9	6.1	6.4
17	19.3	18.5	18.8	13.4	12.8	13.1	8.6	7.7	8.3	6.5	6.0	6.3
18	19.3	18.9	19.1	12.8	12.2	12.4	8.7	8.1	8.3	6.5	6.2	6.4
19	19.6	18.9	19.3	12.3	11.9	12.1	8.3	7.8	8.0	6.8	6.4	6.5
20	19.5	18.8	19.1	11.9	11.4	11.7	8.0	7.0	7.4	6.8	6.6	6.6
21	19.2	18.4	18.8	11.4	10.8	11.1	7.0	5.8	6.4	7.0	6.2	6.6
22	18.9	18.3	18.7	10.8	10.0	10.3	6.3	5.8	6.0	6.5	5.7	6.0
23	19.1	18.4	18.7	10.2	9.5	9.9	6.0	5.2	5.7	5.8	5.3	5.5
24	18.8	18.1	18.5	9.5	9.0	9.2	5.6	5.0	5.3	5.4	4.9	5.2
25	18.7	18.0	18.3	9.0	8.6	8.7	5.3	4.4	4.9	5.3	4.6	4.9
26	18.3	17.9	18.1	9.2	8.9	9.0	5.0	3.7	4.2	5.6	4.5	4.9
27	18.5	17.9	18.1	10.1	9.2	9.7	3.8	3.4	3.6	5.3	4.5	4.9
28	18.9	18.3	18.6	10.5	9.8	10.2	4.0	3.6	3.8	4.9	4.7	4.8
29	18.6	18.0	18.2	10.4	9.9	10.2	4.2	3.6	3.9	5.3	4.8	5.1
30	18.0	17.2	17.5	10.5	9.8	10.1	4.6	4.0	4.2	6.0	5.0	5.5
31	17.2	16.3	16.7	---	---	---	4.3	3.5	3.8	7.0	5.7	6.3
MONTH	23.7	16.3	19.4	17.0	8.6	13.3	10.0	3.4	6.5	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.2	6.7	6.9	10.3	9.4	9.9	12.4	11.7	12.1	18.3	17.6	18.0
2	7.1	6.5	6.8	9.9	9.4	9.6	12.7	11.9	12.3	19.0	17.6	18.3
3	6.9	6.2	6.5	9.6	9.2	9.4	11.9	11.4	11.6	20.1	18.4	19.1
4	6.4	5.6	5.9	9.5	8.8	9.1	12.0	11.5	11.8	21.0	19.1	19.9
5	6.1	5.6	5.8	9.6	9.1	9.5	12.0	11.4	11.7	---	---	---
6	6.3	5.5	6.0	9.1	8.4	8.7	12.7	11.9	12.1	20.8	20.1	20.4
7	6.9	6.2	6.5	8.4	7.7	8.0	---	---	---	20.5	19.0	19.8
8	7.6	6.6	7.1	8.6	7.3	8.0	---	---	---	20.0	18.7	19.4
9	8.4	7.2	7.8	9.1	8.4	8.7	15.6	14.4	15.1	19.7	18.5	19.1
10	9.4	8.2	8.8	9.0	8.4	8.7	---	---	---	21.1	18.9	19.9
11	9.3	8.4	8.9	9.3	8.3	8.9	16.4	15.8	16.1	21.7	20.1	20.9
12	8.4	7.8	8.2	10.0	9.3	9.6	16.2	15.8	16.0	21.7	20.6	21.2
13	8.2	7.4	7.8	11.4	9.9	10.7	16.8	15.9	16.4	21.7	21.2	21.5
14	7.9	7.4	7.6	12.0	11.1	11.5	16.8	15.9	16.4	21.8	21.2	21.5
15	8.6	7.5	8.1	11.3	10.9	11.1	17.1	16.3	16.7	21.2	20.2	20.5
16	9.8	8.6	9.2	12.1	11.1	11.5	17.2	16.7	17.0	20.5	20.0	20.3
17	10.0	9.5	9.8	11.9	11.1	11.5	17.1	15.7	16.3	20.0	19.5	19.7
18	9.6	9.0	9.3	11.8	11.0	11.3	15.7	14.4	15.0	19.8	19.3	19.6
19	9.1	8.1	8.7	11.7	10.7	11.3	14.5	13.5	14.0	21.1	19.8	20.4
20	8.4	7.8	8.2	11.4	11.1	11.3	14.4	13.5	14.0	21.8	21.1	21.4
21	8.7	8.2	8.5	11.9	11.2	11.5	15.2	14.4	14.8	22.5	21.8	22.2
22	8.5	8.0	8.3	11.8	10.8	11.3	16.3	15.2	15.7	23.0	22.5	22.8
23	8.4	7.9	8.2	12.2	11.1	11.6	17.5	16.2	16.7	23.0	22.3	22.8
24	8.0	7.3	7.7	12.4	11.9	12.2	18.3	17.3	17.8	23.1	22.0	22.5
25	8.7	7.9	8.2	12.4	11.9	12.2	18.4	17.3	17.8	23.9	22.8	23.3
26	9.4	8.4	8.9	12.0	11.0	11.4	17.5	16.8	17.1	24.2	23.1	23.6
27	10.4	9.1	9.8	11.7	10.9	11.2	17.1	16.5	16.8	23.3	22.3	22.9
28	10.4	9.7	10.1	11.5	10.8	11.1	17.2	16.4	16.7	23.0	22.2	22.6
29	---	---	---	11.3	10.8	11.0	17.3	16.9	17.1	22.3	22.0	22.2
30	---	---	---	11.8	11.0	11.4	17.9	17.0	17.5	22.7	21.6	22.2
31	---	---	---	11.8	11.3	11.5	---	---	---	23.0	22.4	22.6
MONTH	10.4	5.5	8.0	12.4	7.3	10.5	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	23.3	22.6	22.9	28.2	26.9	27.5	25.4	24.5	24.9	28.4	27.8	28.2
2	23.2	22.8	23.0	28.2	26.4	27.3	26.1	25.0	25.6	27.8	27.0	27.4
3	23.0	22.3	22.6	26.9	26.2	26.5	26.9	25.8	26.3	27.5	26.9	27.3
4	23.2	22.3	22.7	27.1	26.6	26.8	27.0	26.5	26.8	27.4	27.1	27.3
5	23.7	23.0	23.3	27.4	26.3	26.9	27.5	26.5	27.0	27.4	26.9	27.1
6	23.7	23.3	23.5	27.8	26.9	27.3	28.0	26.7	27.3	27.3	26.7	27.0
7	24.0	23.2	23.5	27.8	27.4	27.5	28.3	27.5	27.7	27.1	26.5	26.9
8	23.7	22.8	23.1	27.7	26.7	27.3	28.1	27.5	27.8	27.3	26.6	27.0
9	24.2	23.7	23.9	27.7	26.5	27.0	28.3	27.9	28.1	27.2	26.8	26.9
10	24.2	23.7	23.9	27.9	26.9	27.4	29.5	28.0	28.9	27.1	26.5	26.9
11	24.1	23.4	23.7	28.0	27.5	27.8	29.4	29.1	29.3	27.2	26.6	26.9
12	24.4	23.8	24.1	27.6	27.2	27.4	29.8	28.8	29.3	26.9	26.3	26.7
13	24.4	23.9	24.1	27.3	26.6	26.9	29.5	29.0	29.3	26.5	26.2	26.3
14	24.4	23.7	24.0	26.7	25.7	26.1	29.0	28.4	28.7	26.2	25.2	25.9
15	24.4	23.5	23.8	26.1	25.6	25.9	28.6	28.0	28.3	25.3	24.2	24.9
16	23.6	22.8	23.2	26.7	25.8	26.2	28.9	28.3	28.6	24.2	23.4	23.7
17	---	---	---	27.6	26.3	26.9	29.4	28.3	28.8	23.8	23.2	23.5
18	23.7	22.9	23.2	28.2	27.0	27.5	29.2	28.6	29.0	23.7	22.7	23.2
19	24.0	23.2	23.6	28.0	27.0	27.4	28.6	28.4	28.5	23.8	22.9	23.3
20	24.5	23.5	23.9	27.0	26.3	26.7	28.4	27.3	27.7	24.0	23.4	23.7
21	24.8	23.8	24.3	26.6	26.0	26.3	28.2	27.5	27.9	24.2	23.7	23.9
22	---	---	---	26.5	25.8	26.2	28.0	27.3	27.6	24.6	23.8	24.2
23	25.7	25.1	25.5	26.8	26.3	26.5	28.2	27.4	27.8	24.7	24.1	24.5
24	25.3	24.7	25.0	27.5	26.7	27.1	28.3	27.8	28.1	25.1	24.4	24.7
25	25.5	24.4	24.9	27.5	26.7	27.1	28.1	27.5	27.9	25.1	24.3	24.9
26	25.9	24.6	25.1	27.2	26.2	26.7	27.5	27.1	27.2	24.3	22.9	23.6
27	26.5	25.7	26.1	26.4	26.0	26.2	28.0	27.0	27.4	22.9	22.4	22.7
28	26.7	25.9	26.3	26.0	25.6	25.9	28.2	27.6	27.9	22.9	22.2	22.5
29	26.7	25.4	26.0	25.8	25.1	25.5	28.3	27.7	28.0	22.3	21.7	21.9
30	27.5	26.4	26.8	25.2	24.9	25.0	28.4	27.6	28.1	---	---	---
31	---	---	---	25.0	24.6	24.8	28.6	27.7	28.2	---	---	---
MONTH	---	---	---	28.2	24.6	26.7	29.8	24.5	27.9	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	7.7	7.4	7.6	8.4	7.9	8.2	9.8	7.1	8.3	9.3	7.6	8.7
2	7.8	7.5	7.6	8.6	8.2	8.4	10.0	8.1	9.5	12.9	7.3	9.7
3	7.9	7.2	7.6	8.7	8.1	8.4	10.0	8.6	9.6	13.0	8.4	9.9
4	7.6	7.1	7.4	8.7	8.3	8.5	9.3	7.7	8.5	13.9	12.9	13.7
5	7.4	6.8	7.2	8.6	8.3	8.4	11.4	8.3	9.7	13.8	13.5	13.6
6	7.3	6.8	7.1	8.6	8.0	8.4	10.4	8.0	8.8	13.7	13.2	13.5
7	7.2	6.7	7.0	8.8	7.9	8.5	11.3	8.3	9.9	13.6	12.5	13.1
8	7.2	7.0	7.1	8.9	7.8	8.1	11.0	8.9	10.2	13.1	10.9	11.8
9	7.5	7.2	7.4	8.8	7.9	8.6	10.8	9.1	10.1	11.4	9.4	10.5
10	7.7	7.4	7.5	8.8	7.9	8.6	11.1	10.6	10.9	12.7	9.2	10.4
11	8.1	7.7	7.9	8.7	8.3	8.4	11.1	10.1	10.8	11.3	9.1	10.2
12	8.2	7.9	8.1	8.6	8.4	8.5	11.1	10.1	10.7	---	---	---
13	8.1	7.8	7.9	8.9	8.4	8.6	10.7	8.6	9.6	---	---	---
14	7.9	7.6	7.8	9.0	8.6	8.8	11.1	9.1	9.8	---	---	---
15	8.0	7.5	7.8	9.4	8.8	9.1	10.6	9.5	9.9	---	---	---
16	7.8	7.5	7.7	9.6	9.2	9.4	10.2	7.2	8.3	---	---	---
17	7.6	7.2	7.4	9.8	9.4	9.6	11.2	9.1	10.7	---	---	---
18	7.4	7.1	7.2	10.0	8.8	9.8	9.2	7.2	7.9	---	---	---
19	7.3	7.1	7.2	10.3	9.8	10.0	10.0	7.4	8.6	---	---	---
20	7.3	7.1	7.2	10.8	9.1	10.3	10.1	7.5	8.7	---	---	---
21	7.5	7.1	7.3	9.8	9.3	9.6	11.6	8.6	10.5	---	---	---
22	7.5	7.2	7.4	9.9	8.1	9.3	11.6	11.4	11.5	---	---	---
23	7.6	7.3	7.4	8.3	5.1	6.4	11.9	11.4	11.7	---	---	---
24	7.5	7.3	7.4	7.6	3.6	5.1	11.7	10.3	11.3	---	---	---
25	7.6	7.3	7.4	10.6	3.7	5.9	11.6	7.9	10.2	---	---	---
26	7.5	7.2	7.4	10.1	7.1	9.1	9.4	7.6	8.3	---	---	---
27	7.4	7.2	7.3	10.3	6.9	9.1	8.7	8.0	8.4	---	---	---
28	7.5	7.2	7.4	10.2	9.1	9.5	12.9	8.2	10.5	---	---	---
29	7.6	7.3	7.4	9.6	8.7	9.1	12.1	11.1	11.5	---	---	---
30	7.7	7.4	7.6	9.3	7.1	8.4	12.3	11.1	11.8	---	---	---
31	8.0	7.5	7.8	---	---	---	12.1	9.1	11.1	---	---	---
MONTH	8.2	6.7	7.5	10.8	3.6	8.6	12.9	7.1	9.9	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	87	72	85	84	80	82	87	63	73	71	57	66
2	88	84	86	86	83	84	86	70	83	97	55	73
3	89	82	86	88	82	85	85	71	81	96	63	74
4	87	82	85	89	84	86	77	63	70	102	95	101
5	86	79	83	88	85	86	93	67	78	102	99	100
6	86	80	83	87	81	86	84	63	70	102	98	100
7	85	79	83	88	79	85	90	65	79	101	94	98
8	83	81	82	90	78	81	90	73	83	99	82	89
9	84	80	82	89	80	87	89	74	83	86	71	79
10	82	80	81	91	82	88	92	88	91	98	70	79
11	86	82	84	90	85	87	93	84	90	87	69	78
12	86	83	84	88	85	87	93	84	90	---	---	---
13	86	83	84	89	85	87	90	72	80	---	---	---
14	85	80	83	89	85	87	93	76	82	---	---	---
15	85	81	84	92	86	89	90	80	84	---	---	---
16	85	80	82	93	88	90	86	60	69	---	---	---
17	82	79	80	93	90	91	96	78	91	---	---	---
18	80	77	78	94	82	92	78	62	68	---	---	---
19	80	77	78	96	91	94	84	63	73	---	---	---
20	80	77	78	99	84	95	84	62	72	---	---	---
21	81	76	78	89	85	88	93	70	85	---	---	---
22	81	78	79	89	72	83	94	92	93	---	---	---
23	81	78	80	74	45	56	95	90	93	---	---	---
24	81	78	79	66	31	44	93	81	89	---	---	---
25	81	78	79	91	32	51	91	61	80	---	---	---
26	80	76	78	87	62	79	72	59	64	---	---	---
27	79	76	77	91	60	80	66	61	63	---	---	---
28	81	77	79	91	81	85	98	62	80	---	---	---
29	80	78	79	86	77	81	93	84	88	---	---	---
30	80	78	79	83	63	75	95	86	90	---	---	---
31	82	78	80	---	---	---	92	69	85	---	---	---
MONTH	89	72	81	99	31	82	98	59	81	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	98	93	96	85	80	82	81	72	78
2	---	---	---	100	93	96	87	83	86	81	74	78
3	---	---	---	98	95	96	87	85	87	80	75	78
4	---	---	---	98	95	97	88	86	87	81	76	78
5	99	96	97	98	92	95	88	87	88	---	---	---
6	99	94	97	98	90	94	91	84	87	82	76	79
7	99	95	97	94	89	92	---	---	---	85	74	79
8	99	94	96	99	93	96	---	---	---	87	73	80
9	101	94	97	102	97	100	83	78	80	84	75	80
10	102	95	97	99	96	98	---	---	---	88	75	81
11	98	94	96	100	94	97	81	74	78	87	78	82
12	96	93	95	99	95	97	81	77	78	84	74	79
13	98	93	95	99	94	96	79	74	76	83	71	76
14	97	94	96	96	92	93	77	71	74	80	73	76
15	98	95	97	96	93	95	74	69	71	79	65	72
16	98	96	97	94	90	92	70	63	67	79	60	69
17	99	95	98	92	89	91	70	56	61	80	70	75
18	95	90	92	92	88	90	62	55	57	81	73	77
19	93	89	91	95	86	90	66	53	57	81	74	77
20	93	90	91	91	83	87	69	55	62	83	72	76
21	96	91	94	88	82	85	73	62	67	81	69	77
22	97	91	94	88	83	86	69	60	64	84	70	78
23	100	94	97	87	82	85	70	60	65	80	65	71
24	101	96	98	88	81	83	75	62	68	81	64	74
25	102	99	101	89	84	87	76	61	68	88	72	80
26	104	99	102	90	84	87	77	67	72	91	76	85
27	105	98	102	89	82	87	77	65	72	94	84	88
28	98	93	95	91	87	90	74	66	71	93	85	88
29	---	---	---	91	87	90	79	69	75	88	83	85
30	---	---	---	91	84	88	80	72	77	93	81	87
31	---	---	---	89	85	88	---	---	---	92	84	87
MONTH	---	---	---	102	81	92	---	---	---	---	---	---

