

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1998 to current year.

pH: March 1998 to current year.

WATER TEMPERATURE: 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 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	213, November 2, 2000	63, March 27, 1998
pH, standard units	8.1, March 29, 30, 2000	6.1, September 16, 1999
WATER TEMPERATURE, °C	30.9, July 22, 1998	2.3, January 4, 2001
DISSOLVED OXYGEN, mg/L	16.1, January 13, 1999	4.0, June 27, 2001
DISSOLVED OXYGEN, PERCENT SATURATION, %	132, January 13, 14, 1999	47, June 27, 2001

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	213, November 2	97, June 27, 28
pH, standard units	8.0, May 23, 24	6.5, July 27
WATER TEMPERATURE, °C	29.2, August 16, 17	2.3, January 4
DISSOLVED OXYGEN, mg/	12.7, December 28, January 2, 3	4.0, June 27
DISSOLVED OXYGEN, PERCENT SATURATION,%	107, May 24	47, June 27

ROANOKE RIVER BASIN

0208062765 ROANOKE RIVER AT HALIFAX, 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	124	119	122	111	106	109	124	116	121	130	112	120
2	121	118	120	122	111	118	122	116	119	137	130	134
3	119	117	118	123	118	120	122	114	118	138	134	136
4	118	117	118	122	106	113	121	112	116	139	135	137
5	118	114	118	---	---	---	121	105	118	139	137	138
6	115	108	110	---	---	---	113	104	106	140	122	130
7	113	108	111	---	---	---	114	106	108	141	120	128
8	114	112	113	---	---	---	117	107	110	133	113	118
9	114	113	114	---	---	---	118	108	111	139	130	137
10	115	113	114	117	99	103	121	118	120	137	114	122
11	115	113	114	115	99	104	119	112	116	130	112	118
12	115	110	114	110	99	102	120	112	116	128	112	118
13	114	110	113	109	98	101	119	117	118	129	114	119
14	114	112	113	---	---	---	121	113	117	132	118	124
15	112	108	110	---	---	---	123	119	121	131	122	128
16	108	103	106	---	---	---	124	122	123	131	129	130
17	107	102	103	---	---	---	124	114	119	130	128	129
18	118	106	113	116	106	111	123	114	119	133	120	129
19	108	102	105	117	115	116	122	120	120	132	120	127
20	121	108	116	116	107	111	121	109	115	126	114	120
21	115	106	110	117	112	114	124	117	119	137	114	128
22	114	107	111	118	113	115	125	113	119	138	119	126
23	116	113	115	125	107	113	126	123	125	139	131	137
24	122	113	118	124	114	117	125	120	124	139	117	135
25	---	---	---	124	113	118	121	110	113	117	109	111
26	---	---	---	121	111	115	127	121	124	130	111	120
27	110	97	99	---	---	---	127	117	123	134	116	125
28	113	97	102	118	116	117	130	126	128	136	125	131
29	118	101	106	118	116	117	133	129	130	138	133	135
30	121	106	111	116	114	115	131	116	120	135	133	134
31	---	---	---	117	113	115	132	115	120	---	---	---
MONTH	---	---	---	---	---	---	133	104	119	141	109	127

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	7.5	7.3	7.4	7.3	7.0	7.1	7.3	7.1	7.2	7.0	6.8	6.9
2	7.6	7.4	7.5	7.3	7.0	7.2	7.3	7.1	7.2	6.9	6.7	6.8
3	7.6	7.4	7.5	7.1	7.0	7.1	7.2	7.1	7.2	6.9	6.7	6.7
4	7.8	7.4	7.5	7.3	7.0	7.1	7.2	7.1	7.1	6.8	6.6	6.7
5	7.8	7.2	7.5	7.3	7.0	7.1	7.3	7.1	7.2	6.8	6.7	6.8
6	7.6	7.1	7.3	7.3	7.1	7.2	7.3	7.1	7.2	6.8	6.6	6.8
7	7.6	7.2	7.4	7.4	7.1	7.2	7.3	7.1	7.2	6.8	6.6	6.8
8	7.5	7.2	7.3	7.3	7.0	7.1	7.3	7.2	7.2	6.8	6.6	6.7
9	7.4	7.2	7.3	7.3	7.0	7.1	7.3	7.2	7.3	6.7	6.6	6.7
10	7.5	7.1	7.3	7.1	6.9	7.0	7.3	7.1	7.2	6.8	6.6	6.7
11	7.4	7.1	7.3	7.2	7.0	7.1	7.2	7.1	7.2	6.9	6.7	6.8
12	7.4	7.2	7.3	7.3	7.0	7.2	7.2	7.1	7.2	7.0	6.8	6.9
13	7.6	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.2	6.9	6.7	6.8
14	7.6	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.2	7.0	6.8	6.9
15	7.6	7.2	7.3	7.5	7.1	7.2	7.2	7.1	7.1	6.9	6.8	6.8
16	7.7	7.1	7.3	7.5	7.1	7.2	7.3	7.1	7.2	7.0	6.8	6.9
17	7.6	7.2	7.3	7.3	7.1	7.1	7.1	6.9	7.0	7.2	6.9	7.0
18	7.3	7.1	7.2	7.4	7.1	7.2	7.1	6.9	7.0	7.2	6.9	7.0
19	7.6	7.1	7.3	7.3	7.1	7.1	7.2	7.1	7.1	7.1	7.0	7.0
20	7.6	7.0	7.2	7.2	7.1	7.1	7.2	7.1	7.1	7.1	6.9	7.0
21	7.4	7.0	7.2	7.3	7.1	7.2	7.2	7.1	7.2	7.0	6.9	6.9
22	7.5	7.0	7.2	7.4	7.1	7.2	7.2	7.1	7.2	7.2	7.0	7.1
23	7.5	7.0	7.2	7.5	7.1	7.3	7.2	7.2	7.2	7.3	7.1	7.2
24	7.4	7.0	7.1	7.4	7.1	7.2	7.3	7.1	7.2	7.3	7.1	7.2
25	7.4	7.0	7.1	7.3	7.1	7.2	7.3	7.2	7.2	7.3	7.1	7.2
26	7.3	7.0	7.1	7.1	7.0	7.1	7.3	7.2	7.2	7.4	7.1	7.3
27	7.4	7.0	7.2	7.2	7.1	7.1	7.3	7.1	7.2	7.4	7.2	7.3
28	7.4	7.0	7.2	7.3	7.1	7.2	7.2	7.0	7.1	7.5	7.2	7.3
29	7.4	7.1	7.2	7.3	7.1	7.2	7.2	6.9	7.0	7.9	7.4	7.5
30	7.5	7.1	7.2	7.3	7.1	7.2	7.1	6.9	7.0	7.9	7.6	7.7
31	7.3	7.0	7.0	---	---	---	7.1	6.9	7.0	7.8	7.5	7.6
MONTH	7.8	7.0	7.3	7.5	6.9	7.2	7.3	6.9	7.2	7.9	6.6	7.0

ROANOKE RIVER BASIN

0208062765 ROANOKE RIVER AT HALIFAX, 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	7.8	7.5	7.6	7.3	7.0	7.1	7.4	7.2	7.3	---	---	---
2	7.8	7.4	7.5	7.3	7.0	7.1	7.4	7.2	7.3	7.8	7.1	7.3
3	7.7	7.5	7.6	7.2	7.0	7.1	7.3	7.3	7.3	7.7	7.1	7.3
4	7.6	7.5	7.5	7.1	6.9	7.0	---	---	---	7.7	7.0	7.2
5	7.6	7.4	7.5	7.0	6.9	6.9	7.4	7.3	7.3	7.6	7.0	7.2
6	7.6	7.4	7.5	7.5	7.0	7.2	7.4	7.3	7.3	7.6	7.0	7.2
7	7.7	7.4	7.5	7.5	7.3	7.4	7.4	7.3	7.3	7.6	7.0	7.1
8	7.7	7.3	7.5	7.6	7.3	7.5	7.3	7.2	7.3	7.6	7.0	7.2
9	7.6	7.3	7.4	7.7	7.3	7.4	7.3	7.2	7.2	7.4	7.0	7.1
10	7.6	7.3	7.4	7.6	7.3	7.4	7.3	7.2	7.2	7.2	6.9	7.0
11	7.6	7.3	7.4	7.5	7.2	7.4	7.3	7.2	7.3	7.3	6.9	7.0
12	7.6	7.3	7.4	7.5	7.2	7.4	7.3	7.2	7.3	7.2	6.9	7.0
13	7.6	7.4	7.4	7.5	7.2	7.4	7.3	7.2	7.3	7.3	6.9	7.0
14	7.5	7.3	7.4	7.4	7.2	7.3	7.4	7.2	7.3	7.5	7.0	7.2
15	7.4	7.2	7.3	7.4	7.2	7.3	7.3	7.2	7.3	7.5	7.0	7.2
16	7.4	7.2	7.3	7.3	7.2	7.3	7.4	7.2	7.3	7.4	7.0	7.1
17	7.4	7.1	7.3	7.3	7.1	7.2	7.3	7.2	7.2	7.4	7.0	7.1
18	7.4	7.2	7.3	7.3	7.1	7.2	7.3	7.2	7.2	7.3	7.0	7.1
19	7.5	7.2	7.4	7.4	7.1	7.2	7.4	7.2	7.2	7.6	7.0	7.2
20	7.5	7.2	7.3	7.4	7.2	7.3	7.4	7.2	7.2	7.6	7.0	7.2
21	7.5	7.1	7.3	7.3	7.1	7.2	7.3	7.1	7.2	7.2	7.0	7.1
22	7.3	7.1	7.2	7.4	7.1	7.2	7.3	7.1	7.2	7.5	7.0	7.2
23	7.3	7.1	7.2	7.4	7.2	7.3	7.3	7.1	7.2	8.0	7.1	7.3
24	7.3	7.1	7.2	7.5	7.2	7.3	7.6	7.0	7.3	8.0	7.1	7.3
25	7.3	7.0	7.2	7.5	7.2	7.3	7.6	7.3	7.3	7.6	7.1	7.2
26	7.2	7.1	7.1	7.5	7.2	7.3	7.7	7.3	7.4	7.5	7.1	7.2
27	7.4	7.0	7.2	7.5	7.2	7.3	7.7	7.3	7.4	7.6	7.1	7.2
28	7.4	6.9	7.1	7.5	7.2	7.4	7.7	7.2	7.4	7.6	7.1	7.2
29	---	---	---	7.4	7.2	7.3	7.7	7.2	7.3	7.7	7.1	7.2
30	---	---	---	7.4	7.2	7.3	7.7	7.2	7.3	7.8	7.2	7.4
31	---	---	---	7.4	7.1	7.2	---	---	---	7.8	7.3	7.4
MONTH	7.8	6.9	7.4	7.7	6.9	7.3	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.5	7.2	7.3	7.0	6.8	6.9	7.2	6.9	7.0	7.1	7.0	7.1
2	7.4	7.1	7.2	7.2	6.9	7.1	7.4	6.9	7.1	7.2	7.1	7.1
3	7.6	7.2	7.3	7.4	6.8	7.1	7.4	6.9	7.1	7.3	7.1	7.2
4	7.6	7.2	7.3	7.2	6.8	6.9	7.2	6.9	7.0	7.3	7.1	7.2
5	7.6	7.2	7.3	---	---	---	7.3	6.9	7.1	7.4	7.2	7.3
6	7.5	7.0	7.1	---	---	---	7.3	6.9	7.0	7.4	7.1	7.2
7	7.3	7.1	7.2	---	---	---	7.2	6.9	7.0	7.3	7.0	7.1
8	7.4	7.2	7.2	---	---	---	7.1	6.9	7.0	7.1	7.0	7.0
9	7.3	7.1	7.2	---	---	---	7.1	7.0	7.0	7.3	7.1	7.1
10	7.3	7.1	7.2	6.9	6.8	6.8	7.3	6.9	7.1	7.2	6.9	7.0
11	7.3	7.0	7.1	7.0	6.8	6.8	7.2	6.8	7.0	7.2	7.0	7.0
12	7.2	6.9	7.0	6.9	6.8	6.8	7.0	6.8	6.9	7.2	7.0	7.0
13	7.2	6.7	6.9	6.9	6.7	6.8	7.1	6.9	7.0	7.2	6.9	7.0
14	6.9	6.7	6.8	---	---	---	7.1	6.9	7.0	7.2	7.0	7.0
15	6.8	6.7	6.7	---	---	---	7.2	6.9	7.0	7.2	7.0	7.1
16	6.8	6.7	6.7	---	---	---	7.3	6.9	7.1	7.3	7.1	7.2
17	6.7	6.6	6.7	---	---	---	7.2	6.8	6.9	7.3	7.1	7.2
18	6.9	6.7	6.7	7.1	6.8	6.9	7.1	6.8	6.8	7.3	7.0	7.1
19	6.9	6.7	6.8	6.9	6.8	6.9	6.9	6.7	6.7	7.3	7.1	7.2
20	7.0	6.6	6.8	6.9	6.7	6.8	7.0	6.7	6.8	7.3	7.0	7.1
21	6.8	6.6	6.7	7.0	6.8	6.9	7.1	6.8	6.9	7.3	7.1	7.1
22	6.9	6.7	6.7	7.1	6.8	6.9	7.1	6.8	6.9	7.3	7.0	7.0
23	6.9	6.7	6.8	7.1	6.7	6.8	7.1	6.8	6.9	7.3	7.0	7.1
24	7.0	6.7	6.9	7.2	6.7	6.9	7.1	6.7	6.9	7.3	7.0	7.2
25	---	---	---	7.1	6.9	7.0	7.0	6.8	6.8	7.0	6.9	7.0
26	---	---	---	7.0	6.7	6.8	7.1	6.8	6.9	7.1	7.0	7.0
27	7.2	6.7	6.9	6.9	6.5	6.7	7.1	6.8	6.9	7.2	7.0	7.1
28	7.0	6.8	6.9	7.0	6.7	6.8	7.1	6.8	7.0	7.2	7.0	7.1
29	7.2	6.8	6.9	7.0	6.8	6.9	7.2	6.9	7.1	7.1	7.0	7.1
30	7.2	6.8	6.9	7.0	6.9	6.9	7.2	6.9	7.0	7.2	7.1	7.2
31	---	---	---	7.1	6.9	7.0	7.2	6.9	7.0	---	---	---
MONTH	---	---	---	---	---	---	7.4	6.7	7.0	7.4	6.9	7.1

ROANOKE RIVER BASIN

0208062765 ROANOKE RIVER AT HALIFAX, 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	21.9	21.0	21.4	17.5	16.5	17.0	9.6	8.6	9.2	3.4	3.0	3.3
2	21.8	21.0	21.4	17.1	16.1	16.8	9.4	8.7	9.0	3.5	3.2	3.4
3	22.5	21.2	21.7	16.9	16.0	16.4	8.7	7.0	8.0	3.6	2.6	3.1
4	22.9	22.4	22.7	17.0	16.3	16.7	7.7	6.6	7.1	3.3	2.3	2.9
5	23.4	22.3	22.7	16.9	16.2	16.6	7.9	7.2	7.6	3.5	2.7	3.1
6	23.4	22.4	22.9	16.2	15.4	15.7	8.1	7.4	7.6	3.5	3.0	3.2
7	23.3	22.3	22.8	16.2	15.5	15.8	8.1	7.3	7.7	3.7	3.0	3.5
8	22.5	19.8	20.9	17.2	16.1	16.5	8.0	7.3	7.7	4.3	3.7	4.0
9	19.9	19.0	19.5	17.2	16.4	16.8	7.9	7.2	7.6	4.3	3.6	4.0
10	19.8	18.5	19.3	17.2	16.4	16.8	7.6	6.8	7.0	3.6	3.2	3.4
11	19.7	18.3	19.1	16.4	15.4	15.8	7.6	6.8	7.2	4.2	3.3	3.9
12	19.2	18.1	18.7	15.8	15.2	15.5	8.2	7.6	7.9	4.9	4.2	4.7
13	18.9	18.2	18.5	15.5	15.1	15.3	7.9	6.7	7.1	4.6	4.3	4.4
14	18.8	18.3	18.6	15.8	14.7	15.3	7.6	7.4	7.5	4.7	4.3	4.5
15	19.0	18.5	18.7	14.7	13.9	14.2	8.0	7.5	7.7	5.7	4.5	5.2
16	19.5	18.9	19.2	14.2	13.4	13.9	7.8	7.4	7.6	5.7	5.0	5.3
17	19.5	18.7	19.1	14.3	13.8	14.0	9.5	7.6	9.0	5.6	4.8	5.1
18	19.3	18.9	19.1	13.8	12.8	13.2	8.9	6.8	7.4	5.6	5.0	5.2
19	19.5	18.8	19.1	13.3	12.1	12.7	7.7	6.8	7.1	6.0	5.4	5.7
20	19.6	18.6	18.9	12.6	11.8	12.3	7.7	6.5	7.0	6.3	5.8	6.1
21	19.4	18.6	19.0	12.2	10.4	11.4	6.8	5.9	6.4	5.8	4.6	5.3
22	19.6	19.0	19.4	10.4	9.1	9.7	6.8	6.2	6.5	5.0	4.6	4.9
23	19.6	18.5	19.1	9.7	9.2	9.4	6.2	4.4	5.3	5.3	4.3	5.0
24	19.2	18.0	18.4	9.6	9.2	9.4	5.2	4.5	5.0	5.4	5.0	5.2
25	19.2	18.3	18.7	10.1	9.4	9.6	5.2	4.1	4.9	5.7	4.8	5.3
26	18.8	18.3	18.5	10.5	10.1	10.3	4.9	3.9	4.2	5.2	4.1	4.8
27	19.0	18.4	18.7	10.2	9.9	10.1	5.3	4.6	4.9	5.1	4.2	4.6
28	18.9	18.6	18.8	10.3	9.7	10.1	5.3	4.5	4.8	5.3	4.1	4.8
29	18.7	17.2	17.9	10.0	9.6	9.7	4.7	4.1	4.3	5.5	4.6	4.9
30	17.9	16.9	17.2	10.1	9.0	9.8	4.4	3.4	4.1	5.7	5.0	5.4
31	17.9	17.1	17.3	---	---	---	3.5	3.0	3.3	6.8	5.5	6.1
MONTH	23.4	16.9	19.6	17.5	9.0	13.6	9.6	3.0	6.7	6.8	2.3	4.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.0	5.7	6.0	8.9	7.8	8.4	13.1	10.9	11.5	---	---	---
2	6.3	5.6	5.8	9.0	8.3	8.7	12.2	11.2	11.6	19.0	17.2	18.1
3	6.2	5.2	5.8	9.3	8.8	9.1	11.6	11.1	11.2	19.1	17.1	18.2
4	6.0	5.3	5.7	9.5	9.0	9.3	11.6	11.2	11.4	19.6	17.7	18.5
5	6.4	6.0	6.1	9.0	8.3	8.8	12.1	11.1	11.5	20.1	18.0	19.0
6	6.3	5.8	6.1	8.4	7.1	8.1	12.6	11.4	11.9	19.9	17.9	18.7
7	6.9	6.3	6.6	7.9	7.2	7.4	13.2	12.1	12.6	20.4	17.1	18.4
8	7.1	6.4	6.7	8.4	7.1	7.6	14.0	12.3	13.2	20.4	18.6	19.4
9	7.3	6.4	6.8	8.9	7.4	8.1	14.2	13.7	13.8	20.3	18.1	18.9
10	8.8	7.2	8.3	9.0	7.4	8.0	14.2	13.6	13.9	19.7	18.0	18.7
11	8.4	7.1	7.8	9.0	7.8	8.6	14.6	13.1	13.8	20.0	18.7	19.2
12	7.9	6.5	6.9	9.7	8.4	9.1	14.5	13.7	14.0	20.1	18.6	19.3
13	8.1	6.9	7.4	11.2	8.6	9.7	15.0	13.9	14.2	20.9	20.0	20.3
14	7.9	7.4	7.6	11.0	9.4	10.1	15.8	14.9	15.3	21.0	18.9	20.2
15	8.9	7.9	8.5	11.2	9.5	9.9	16.5	15.4	15.8	21.1	19.8	20.2
16	9.0	8.3	8.8	10.5	9.6	10.0	16.6	15.9	16.2	20.5	19.9	20.2
17	8.7	8.2	8.4	11.7	10.4	11.1	16.3	15.0	15.5	20.5	19.1	19.5
18	8.2	7.2	7.8	11.9	10.8	11.4	15.1	14.3	14.7	20.5	19.1	19.6
19	8.1	7.0	7.7	11.2	10.4	10.8	15.1	13.7	14.4	21.8	20.2	20.8
20	8.8	7.7	8.1	11.5	9.4	10.3	15.0	14.0	14.4	21.9	19.7	20.8
21	9.6	8.8	9.3	11.1	10.0	10.5	15.8	14.0	14.8	20.4	19.4	19.8
22	8.9	7.1	8.0	11.4	10.4	10.9	16.7	14.9	15.7	22.2	20.4	21.1
23	7.8	6.9	7.4	11.5	10.2	10.8	17.9	16.2	16.9	23.5	21.0	22.2
24	8.2	7.4	7.7	12.1	10.2	10.9	18.5	16.8	17.6	23.5	21.0	21.9
25	8.3	7.4	8.0	12.1	10.7	11.0	18.4	16.4	17.2	22.4	20.6	21.5
26	9.1	8.0	8.6	11.6	10.5	10.9	17.2	15.8	16.4	22.3	21.0	21.6
27	9.6	8.6	9.1	11.6	10.0	10.7	17.6	15.5	16.4	22.6	21.0	21.7
28	9.6	8.3	8.7	11.0	10.0	10.5	18.0	16.6	17.2	22.6	21.7	22.0
29	---	---	---	10.7	10.1	10.2	17.9	15.8	16.6	22.5	21.2	21.7
30	---	---	---	11.9	10.5	11.0	17.9	15.8	16.8	23.2	21.3	22.2
31	---	---	---	12.2	11.0	11.5	---	---	---	23.2	22.1	22.4
MONTH	9.6	5.2	7.5	12.2	7.1	9.8	18.5	10.9	14.6	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, 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	22.3	21.1	21.6	26.6	26.1	26.5	25.7	24.8	25.2	28.3	27.4	27.6
2	22.7	21.2	21.7	27.5	26.5	27.0	26.2	24.3	25.2	27.9	27.1	27.5
3	22.9	21.9	22.3	27.0	25.3	26.1	26.6	24.5	25.4	27.4	26.9	27.1
4	22.9	21.7	22.2	27.8	25.8	26.5	26.1	25.1	25.6	27.1	26.5	26.8
5	23.5	21.4	22.4	---	---	---	26.5	25.4	25.9	27.5	26.5	26.9
6	23.4	21.5	22.3	---	---	---	27.5	25.4	26.2	27.5	26.2	26.8
7	24.0	23.2	23.4	---	---	---	27.6	25.3	26.2	27.5	25.5	26.4
8	24.1	23.1	23.4	---	---	---	28.1	27.1	27.6	27.1	25.4	26.0
9	23.8	22.4	23.0	---	---	---	28.7	27.2	28.0	26.8	26.0	26.5
10	24.0	23.1	23.5	27.0	25.8	26.2	28.9	27.5	28.0	26.8	25.5	26.1
11	24.0	23.0	23.2	27.0	25.9	26.3	28.9	27.2	28.0	27.0	25.9	26.6
12	24.4	22.8	23.4	26.9	25.5	26.2	28.8	27.3	27.7	26.9	25.5	26.0
13	24.4	23.1	23.6	25.8	25.4	25.7	29.1	27.8	28.5	26.4	25.0	25.6
14	23.6	22.3	22.9	---	---	---	29.0	27.8	28.4	26.4	24.5	25.1
15	23.1	22.4	22.8	---	---	---	28.8	28.0	28.4	24.6	23.4	23.8
16	23.8	22.2	23.0	---	---	---	29.2	27.8	28.4	23.9	23.3	23.7
17	24.1	23.5	23.8	---	---	---	29.2	27.3	28.1	24.0	23.3	23.7
18	24.9	23.1	23.9	26.9	25.3	26.1	29.0	28.1	28.5	24.0	23.0	23.5
19	24.0	22.2	23.1	25.9	25.2	25.4	28.1	26.3	27.0	23.9	22.8	23.4
20	25.6	23.6	24.8	25.9	24.8	25.3	27.9	27.1	27.5	23.9	22.7	23.1
21	25.1	23.5	24.2	25.8	25.3	25.5	28.5	27.4	27.8	24.4	23.2	23.7
22	25.6	23.4	24.3	27.1	25.4	25.7	28.5	27.0	27.5	24.5	23.4	24.0
23	25.6	23.5	24.4	27.0	24.7	25.5	28.0	27.2	27.5	25.0	24.0	24.6
24	25.6	24.6	25.1	26.5	24.6	25.3	28.5	27.0	27.6	24.6	23.5	24.3
25	---	---	---	27.4	25.7	26.5	28.3	26.8	27.3	24.1	23.4	23.8
26	---	---	---	27.0	26.3	26.6	27.7	27.0	27.4	23.7	22.6	23.0
27	25.6	23.4	24.1	26.6	25.8	26.2	28.0	26.9	27.4	22.8	22.5	22.7
28	26.4	24.5	25.1	25.9	24.9	25.2	28.2	27.5	27.9	22.9	21.6	22.4
29	26.7	25.4	26.2	25.2	24.5	24.8	28.5	28.0	28.3	21.7	20.9	21.5
30	26.7	24.1	25.4	25.2	24.5	24.8	28.5	27.0	27.4	21.1	20.4	20.8
31	---	---	---	25.6	24.7	25.2	28.5	26.9	27.5	---	---	---
MONTH	---	---	---	---	---	---	29.2	24.3	27.3	28.3	20.4	24.8

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	7.8	7.1	7.4	9.2	8.0	8.3	11.3	10.6	11.0	12.6	12.2	12.4
2	7.8	7.1	7.5	9.2	8.0	8.5	11.6	10.6	11.0	12.7	12.2	12.4
3	8.0	7.1	7.5	8.8	8.2	8.3	11.3	10.9	11.1	12.7	12.2	12.3
4	8.1	7.1	7.5	9.2	8.1	8.5	11.7	11.1	11.3	12.5	12.2	12.3
5	8.4	6.9	7.7	9.1	8.1	8.4	11.9	11.1	11.4	12.6	12.2	12.3
6	8.1	6.6	7.1	9.5	8.4	8.8	12.0	11.1	11.5	12.5	12.0	12.2
7	8.1	6.9	7.6	9.6	8.6	9.0	11.9	11.1	11.4	12.4	12.0	12.2
8	8.1	7.2	7.5	9.6	8.2	8.7	11.9	11.2	11.5	12.2	11.7	12.0
9	8.0	7.4	7.7	9.6	8.1	8.6	12.0	11.2	11.6	12.0	11.7	11.8
10	8.7	7.5	8.1	9.3	8.0	8.3	12.0	11.5	11.6	12.2	12.0	12.1
11	8.6	7.6	8.1	9.8	8.7	9.2	11.8	11.3	11.5	12.3	11.8	12.0
12	8.8	7.9	8.3	9.9	8.7	9.2	11.8	11.1	11.3	12.2	11.6	11.9
13	9.3	8.0	8.5	9.9	8.9	9.3	11.9	11.0	11.6	12.0	11.6	11.8
14	9.4	8.1	8.6	10.0	8.9	9.3	12.1	11.0	11.4	12.1	11.7	11.9
15	9.3	8.0	8.5	10.1	8.9	9.3	11.6	11.1	11.3	11.9	11.5	11.7
16	9.3	7.8	8.4	10.2	8.8	9.3	11.8	11.0	11.4	11.9	11.4	11.7
17	9.2	7.8	8.4	9.8	8.5	9.2	11.3	10.1	10.6	12.1	11.6	11.9
18	8.4	7.8	8.1	10.3	9.3	9.6	11.2	10.2	10.7	12.0	11.4	11.7
19	9.2	7.8	8.3	10.2	9.0	9.3	11.6	10.8	11.1	11.7	11.4	11.5
20	9.2	7.7	8.2	9.9	9.3	9.5	11.6	10.8	11.1	11.5	10.9	11.2
21	9.1	7.8	8.3	10.9	9.6	10.1	11.7	11.2	11.5	11.8	11.0	11.3
22	9.2	7.7	8.3	11.2	10.3	10.7	11.9	11.2	11.6	11.9	11.5	11.7
23	9.2	7.8	8.4	11.4	10.3	10.7	12.0	11.4	11.8	11.9	11.4	11.7
24	9.2	7.5	7.8	11.3	10.3	10.7	12.2	11.6	11.9	11.9	11.4	11.7
25	9.2	7.6	7.9	11.2	10.4	10.7	12.1	11.6	11.8	11.8	11.3	11.5
26	8.8	7.7	8.2	10.4	9.9	10.1	12.4	11.9	12.1	12.1	11.6	11.8
27	9.0	7.7	8.3	11.0	10.2	10.4	12.5	11.8	12.2	11.9	11.8	11.9
28	9.1	7.7	8.3	11.2	10.3	10.7	12.7	11.7	12.1	12.1	11.7	11.9
29	9.1	7.9	8.4	11.2	10.4	10.8	12.5	11.9	12.1	12.1	10.8	11.6
30	9.3	8.0	8.5	11.3	10.3	10.7	12.6	12.1	12.3	12.0	11.2	11.7
31	9.0	7.7	8.0	---	---	---	12.5	12.2	12.3	11.8	10.9	11.3
MONTH	9.4	6.6	8.0	11.4	8.0	9.5	12.7	10.1	11.5	12.7	10.8	11.9

ROANOKE RIVER BASIN

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

OXYGEN DISSOLVED (MG/L), 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	11.8	11.1	11.3	10.9	10.1	10.6	9.2	8.6	9.0	---	---	---
2	11.6	11.0	11.2	10.9	10.0	10.4	9.2	8.9	9.0	9.7	7.4	8.2
3	11.6	11.2	11.4	10.6	9.7	10.1	9.1	8.9	9.0	9.2	7.1	7.9
4	11.6	11.1	11.3	10.3	9.6	9.9	9.0	8.8	8.9	9.1	6.6	7.5
5	11.3	10.7	11.0	10.2	9.7	9.8	9.0	8.7	8.8	8.9	6.4	7.4
6	11.4	10.9	11.1	11.5	10.2	11.1	9.0	8.7	8.8	8.7	6.3	7.2
7	11.4	10.6	10.9	11.6	11.3	11.4	8.9	8.6	8.7	8.6	6.6	7.3
8	11.2	10.8	11.0	11.8	11.3	11.5	8.8	8.5	8.6	8.6	6.5	7.3
9	11.3	10.7	10.9	11.7	10.7	11.1	8.8	8.4	8.6	8.4	6.3	7.0
10	10.9	9.5	10.2	11.2	10.8	11.0	8.9	8.5	8.7	8.2	6.0	6.9
11	11.0	9.8	10.1	11.2	10.4	10.8	8.9	8.6	8.7	8.3	5.9	6.9
12	11.1	10.4	10.7	11.1	10.2	10.8	9.1	8.6	8.8	7.9	5.5	6.6
13	10.8	10.3	10.5	11.0	9.8	10.5	9.0	8.7	8.9	7.7	5.2	6.1
14	10.5	9.8	10.2	10.5	9.6	10.1	9.0	8.6	8.8	7.8	5.6	6.6
15	10.0	9.3	9.6	10.1	9.5	9.8	8.9	8.4	8.6	7.6	5.3	6.3
16	9.9	9.3	9.6	10.1	9.4	9.9	8.8	8.1	8.4	7.5	5.8	6.4
17	10.2	9.5	9.8	9.9	8.8	9.4	8.7	8.2	8.4	7.5	6.0	6.5
18	10.5	9.9	10.1	9.5	8.8	9.2	9.1	8.4	8.6	7.5	6.2	6.7
19	10.8	10.3	10.4	9.8	8.9	9.4	9.5	8.5	8.9	8.6	6.1	7.1
20	10.6	9.9	10.2	10.1	9.4	9.7	9.4	8.7	9.0	8.6	6.4	7.2
21	10.3	9.3	9.8	10.0	9.0	9.4	9.6	8.7	9.1	8.1	6.8	7.3
22	10.9	9.9	10.3	9.9	9.0	9.5	9.5	8.7	9.0	8.6	6.7	7.5
23	10.8	10.4	10.5	9.9	9.2	9.5	9.4	8.5	8.9	9.0	6.7	7.6
24	10.8	10.2	10.5	9.8	9.4	9.6	9.5	8.3	8.8	9.0	6.7	7.6
25	10.7	10.1	10.3	9.7	9.0	9.5	9.4	8.2	8.4	8.7	6.7	7.5
26	10.3	9.8	10.0	9.8	8.8	9.4	9.5	8.2	8.6	8.7	6.5	7.2
27	10.3	9.7	10.0	9.7	8.9	9.5	9.5	8.1	8.6	8.5	6.4	7.1
28	10.3	9.6	9.9	9.8	9.1	9.6	9.5	7.8	8.5	8.4	6.5	7.1
29	---	---	---	9.7	9.1	9.5	9.6	7.8	8.4	7.8	6.3	6.8
30	---	---	---	9.6	9.1	9.4	9.6	7.9	8.5	8.4	6.5	7.3
31	---	---	---	9.4	8.6	9.0	---	---	---	8.3	6.8	7.4
MONTH	11.8	9.3	10.5	11.8	8.6	10.0	9.6	7.8	8.7	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.8	6.6	7.0	6.2	5.3	5.6	7.7	6.4	7.0	6.2	5.9	6.1
2	7.9	6.5	7.0	7.1	5.6	6.2	7.9	6.3	6.8	7.1	6.2	6.6
3	8.3	6.9	7.4	7.2	5.7	6.4	7.8	6.2	6.8	7.4	6.6	7.0
4	8.3	7.0	7.5	7.0	5.4	5.9	7.1	5.8	6.3	7.6	6.7	7.0
5	8.3	6.9	7.5	---	---	---	7.4	6.0	6.6	8.0	7.1	7.4
6	8.2	6.7	7.2	---	---	---	7.4	5.8	6.1	8.1	5.7	6.8
7	7.9	7.0	7.3	---	---	---	7.1	5.7	6.2	6.8	5.5	6.0
8	7.9	7.0	7.3	---	---	---	7.0	5.9	6.3	6.2	5.3	5.7
9	7.6	5.9	6.6	---	---	---	6.9	6.0	6.2	6.7	5.8	6.1
10	6.6	5.6	6.1	6.1	5.2	5.7	7.3	5.9	6.5	6.5	4.9	5.4
11	6.3	5.5	5.8	6.2	5.3	5.6	7.2	6.0	6.4	6.5	5.7	6.0
12	7.3	5.5	6.1	6.2	4.9	5.7	6.9	5.9	6.3	6.8	5.5	5.9
13	7.3	5.8	6.4	6.0	5.4	5.6	7.2	6.0	6.6	6.7	5.2	5.7
14	7.0	5.7	6.2	---	---	---	6.8	6.0	6.2	6.8	5.8	6.2
15	6.3	5.6	5.9	---	---	---	7.2	6.0	6.5	7.2	6.2	6.6
16	6.7	5.3	5.8	---	---	---	7.4	6.2	6.7	7.5	6.7	7.0
17	6.7	5.7	6.1	---	---	---	7.3	5.8	6.2	7.6	6.8	7.1
18	7.5	5.8	6.5	7.3	6.2	6.5	6.9	5.7	6.1	7.7	6.8	7.2
19	7.2	5.8	6.3	7.4	6.2	6.6	6.6	5.8	6.0	7.9	6.9	7.3
20	7.9	6.2	7.0	7.3	5.8	6.3	6.8	5.6	6.1	8.0	7.0	7.4
21	---	---	---	7.7	6.4	7.0	7.3	5.9	6.4	8.5	7.2	7.6
22	---	---	---	7.9	6.3	7.2	7.3	5.9	6.4	8.5	7.3	7.7
23	---	---	---	7.9	5.6	6.3	7.3	6.2	6.6	8.5	7.4	8.0
24	---	---	---	6.5	5.3	5.9	7.5	6.4	6.9	8.5	7.0	7.9
25	---	---	---	6.9	5.7	6.3	7.1	6.4	6.6	7.0	6.0	6.4
26	---	---	---	6.8	6.0	6.3	7.4	6.4	6.9	---	---	---
27	7.1	4.0	4.6	7.3	6.0	6.5	7.6	6.4	6.8	---	---	---
28	6.5	4.4	5.5	7.2	6.2	6.6	7.6	6.6	7.0	---	---	---
29	7.4	5.3	5.9	7.2	6.2	6.6	7.5	6.0	6.7	---	---	---
30	7.2	5.2	5.8	7.1	6.4	6.6	6.9	5.4	5.9	---	---	---
31	---	---	---	7.5	6.5	6.9	6.6	5.6	5.9	---	---	---
MONTH	---	---	---	---	---	---	7.9	5.4	6.5	---	---	---

ROANOKE RIVER BASIN

0208062765 ROANOKE RIVER AT HALIFAX, 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	89	74	84	96	82	86	99	91	96	95	92	93
2	89	80	85	95	82	88	101	92	96	96	92	93
3	92	81	85	92	83	85	97	91	94	96	90	92
4	95	82	87	96	83	88	97	92	94	94	90	92
5	98	80	89	93	84	86	100	93	96	95	90	92
6	96	77	83	96	85	89	102	93	96	93	90	92
7	96	81	89	97	88	91	101	93	95	93	91	92
8	93	79	85	100	85	89	100	94	97	94	89	91
9	88	81	84	100	84	89	100	93	97	91	90	90
10	96	81	88	96	83	86	101	94	96	93	90	91
11	95	82	88	99	88	93	99	94	95	93	90	91
12	95	84	89	100	88	93	99	94	96	95	90	92
13	101	86	91	99	89	93	99	91	96	93	90	92
14	101	87	92	101	88	93	101	92	96	94	90	92
15	101	86	92	99	87	91	97	94	95	93	91	92
16	102	85	91	99	84	91	100	91	95	94	90	92
17	100	84	91	96	83	90	96	88	92	96	90	93
18	91	84	87	98	88	92	92	88	90	96	90	92
19	100	85	89	98	85	88	97	89	92	93	91	92
20	101	83	88	92	87	89	95	89	92	93	88	90
21	100	84	89	97	90	92	96	91	93	91	88	89
22	100	84	91	101	90	95	97	92	94	93	90	91
23	100	84	91	99	91	94	94	92	93	93	88	91
24	100	80	84	99	90	94	96	91	93	94	90	92
25	100	82	85	98	92	94	96	91	92	94	89	91
26	95	82	88	93	89	91	95	92	93	95	89	92
27	97	83	89	98	91	92	99	92	95	94	91	92
28	98	83	89	100	91	95	99	91	94	95	90	93
29	96	83	88	100	92	95	97	91	93	95	84	91
30	97	83	89	100	91	95	98	91	94	95	90	92
31	94	81	83	---	---	---	94	91	92	94	88	91
MONTH	102	74	88	101	82	91	102	88	94	96	84	92

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	95	89	91	94	86	91	87	80	83	---	---	---
2	94	88	90	95	86	90	86	81	83	104	77	87
3	94	89	92	92	84	88	84	81	83	99	74	84
4	93	88	91	90	84	86	82	80	81	98	70	81
5	91	87	89	87	84	85	84	79	81	98	68	80
6	92	88	90	98	87	94	85	80	82	95	67	77
7	93	87	89	97	94	95	85	80	82	96	69	78
8	92	87	90	100	93	97	85	80	82	96	70	80
9	94	88	90	100	91	94	86	81	83	93	68	76
10	91	82	86	97	91	93	87	82	84	90	65	75
11	92	83	85	96	90	93	87	82	84	91	63	75
12	92	86	88	96	88	94	89	83	86	86	59	71
13	92	85	88	95	88	92	89	84	87	85	58	68
14	89	82	85	94	86	90	91	85	88	87	63	73
15	85	80	83	92	83	87	90	84	87	86	59	70
16	85	80	83	89	84	88	91	82	86	83	64	70
17	87	82	84	89	81	85	89	82	84	83	65	71
18	88	82	85	89	80	84	90	82	85	84	68	73
19	90	85	88	89	80	85	94	83	87	98	69	80
20	90	84	87	92	82	87	93	85	89	99	71	81
21	90	81	86	89	81	84	97	84	90	91	74	80
22	91	85	87	91	81	86	98	86	91	100	75	84
23	90	86	88	91	83	86	100	87	92	106	75	88
24	91	86	88	91	84	87	102	86	93	107	75	87
25	90	85	87	89	81	86	100	85	88	100	75	85
26	88	84	86	90	79	85	99	83	88	100	74	82
27	91	84	87	90	79	86	100	81	88	98	73	81
28	90	82	85	89	81	86	100	81	88	98	74	81
29	---	---	---	87	81	85	100	79	87	90	72	78
30	---	---	---	88	83	86	102	80	88	98	74	84
31	---	---	---	86	79	83	---	---	---	97	78	85
MONTH	95	80	87	100	79	88	102	79	86	---	---	---

ROANOKE RIVER BASIN

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	90	74	80	78	66	70	94	78	85	80	75	77
2	92	74	79	90	71	79	97	75	83	89	79	84
3	97	79	85	90	69	79	97	76	83	93	84	88
4	96	80	86	90	68	73	87	72	77	96	84	88
5	98	79	86	---	---	---	91	74	82	102	88	93
6	96	77	83	---	---	---	94	71	76	102	71	85
7	94	83	86	---	---	---	90	70	76	87	68	74
8	94	82	86	---	---	---	90	75	80	77	65	70
9	89	68	77	---	---	---	88	78	80	84	72	76
10	78	66	72	77	65	71	95	76	84	81	60	67
11	75	64	68	78	66	70	94	77	82	82	70	76
12	88	65	72	76	60	70	89	75	80	85	67	73
13	86	68	76	74	67	69	95	77	85	84	64	70
14	82	66	73	---	---	---	88	78	80	84	71	76
15	74	65	69	---	---	---	93	78	84	86	73	78
16	80	62	68	---	---	---	97	80	86	89	80	83
17	79	68	72	---	---	---	95	75	80	91	81	84
18	91	68	77	92	76	81	91	74	79	91	80	85
19	85	67	73	91	76	81	85	72	75	94	81	86
20	95	74	85	90	70	77	86	71	78	94	82	86
21	---	---	---	95	78	86	95	76	82	102	85	90
22	---	---	---	100	78	88	94	76	81	102	87	92
23	---	---	---	99	68	77	93	78	84	102	90	96
24	---	---	---	81	64	72	96	81	88	102	82	95
25	---	---	---	88	71	79	92	80	84	82	71	76
26	---	---	---	86	74	78	95	82	87	---	---	---
27	87	47	55	92	75	81	97	71	86	---	---	---
28	81	53	67	88	75	80	97	71	89	---	---	---
29	92	66	73	87	75	79	97	78	86	---	---	---
30	90	63	71	87	77	80	89	68	74	---	---	---
31	---	---	---	92	79	84	85	71	75	---	---	---
MONTH	---	---	---	---	---	---	97	68	82	---	---	---