

Water-Data Report 2008

02081022 ROANOKE RIVER NEAR OAK CITY, NC

Roanoke Basin
Lower Roanoke Subbasin

LOCATION.--Lat 36°00'49", long 77°12'55" referenced to North American Datum of 1983, Martin County, NC, Hydrologic Unit 03010107, on right bank at bridge on North Carolina Highway 11-42, and 5.2 mi northeast of Oak City.

DRAINAGE AREA.--8,810 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: Occasional discharge measurements, water years 1968-1985. Daily discharges, August 2006 to September 2007 (discontinued).

ELEVATION: July 1987 to current year.

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 discharge, 21,000 ft³/s, January 27, 2007; maximum elevation, 22.07 ft, September 19, 1999; minimum discharge 1,430 ft³/s, September 16, 2007; minimum elevation, 2.27 ft, September 19, 2007.

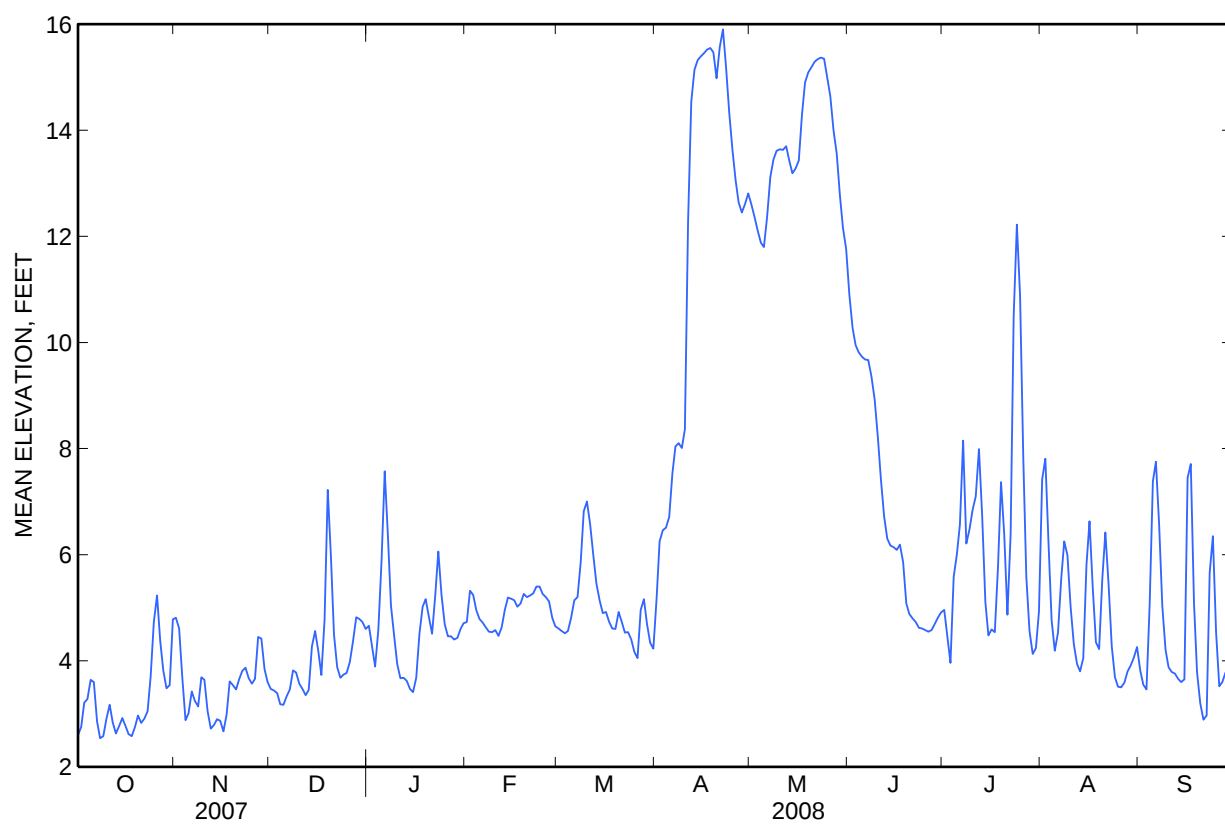
EXTREMES FOR CURRENT YEAR.--Maximum elevation 16.00 ft, April 22; minimum elevation, 2.49 ft, October 8.

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

ELEVATION, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.60	4.81	3.47	4.66	4.73	4.61	5.16	12.61	10.90	4.96	7.42	3.82
2	2.75	4.61	3.44	4.29	5.32	4.56	6.25	12.37	10.28	4.47	7.81	3.55
3	3.21	3.68	3.39	3.89	5.24	4.52	6.46	12.11	9.95	3.96	6.20	3.46
4	3.28	2.88	3.18	4.58	4.96	4.56	6.51	11.88	9.81	5.58	4.77	5.07
5	3.64	3.01	3.17	5.87	4.79	4.81	6.71	11.80	9.73	6.01	4.19	7.38
6	3.60	3.42	3.33	7.57	4.72	5.14	7.53	12.37	9.68	6.57	4.53	7.75
7	2.86	3.24	3.46	6.42	4.63	5.20	8.04	13.12	9.67	8.15	5.54	6.57
8	2.54	3.14	3.82	5.04	4.55	5.86	8.10	13.45	9.36	6.21	6.25	5.03
9	2.58	3.69	3.78	4.47	4.54	6.82	8.01	13.61	8.93	6.48	5.99	4.21
10	2.91	3.64	3.57	3.94	4.58	7.00	8.36	13.64	8.22	6.84	5.01	3.88
11	3.17	3.05	3.47	3.67	4.47	6.57	12.28	13.63	7.43	7.10	4.31	3.79
12	2.84	2.72	3.35	3.68	4.63	5.98	14.54	13.70	6.73	7.99	3.94	3.76
13	2.63	2.79	3.45	3.62	4.95	5.46	15.14	13.42	6.30	6.74	3.80	3.66
14	2.77	2.90	4.27	3.47	5.19	5.14	15.32	13.19	6.17	5.11	4.05	3.60
15	2.92	2.87	4.56	3.41	5.17	4.90	15.39	13.28	6.14	4.48	5.81	3.65
16	2.78	2.67	4.18	3.68	5.14	4.92	15.45	13.43	6.09	4.59	6.63	7.45
17	2.62	2.99	3.73	4.51	5.02	4.74	15.52	14.30	6.19	4.54	5.39	7.71
18	2.58	3.61	4.77	5.02	5.08	4.61	15.55	14.90	5.86	5.77	4.35	5.09
19	2.75	3.54	7.22	5.16	5.26	4.60	15.47	15.09	5.08	7.37	4.22	3.79
20	2.97	3.46	5.95	4.83	5.20	4.92	14.98	15.19	4.88	6.38	5.55	3.20
21	2.83	3.66	4.49	4.51	5.23	4.74	15.57	15.29	4.80	4.87	6.42	2.89
22	2.91	3.81	3.88	5.24	5.27	4.53	15.90	15.34	4.73	6.39	5.45	2.97
23	3.05	3.87	3.68	6.06	5.40	4.54	15.20	15.37	4.62	10.50	4.27	5.66
24	3.70	3.67	3.74	5.24	5.40	4.40	14.34	15.35	4.61	12.22	3.69	6.35
25	4.73	3.57	3.77	4.69	5.26	4.17	13.64	14.99	4.58	10.88	3.51	4.54
26	5.23	3.66	3.98	4.46	5.20	4.05	13.06	14.64	4.55	7.83	3.50	3.52
27	4.37	4.45	4.37	4.46	5.12	4.96	12.64	14.00	4.58	5.58	3.59	3.60
28	3.82	4.42	4.82	4.40	4.81	5.16	12.45	13.56	4.69	4.56	3.80	3.78
29	3.48	3.84	4.79	4.43	4.65	4.70	12.61	12.77	4.81	4.13	3.91	3.72
30	3.54	3.60	4.73	4.60	---	4.34	12.81	12.16	4.91	4.24	4.06	5.95
31	4.78	---	4.60	4.71	---	4.23	---	11.76	---	4.93	4.26	---
Mean	3.24	3.51	4.08	4.66	4.98	4.99	11.97	13.62	6.81	6.30	4.91	4.65
Max	5.23	4.81	7.22	7.57	5.40	7.00	15.90	15.37	10.90	12.22	7.81	7.75
Min	2.54	2.67	3.17	3.41	4.47	4.05	5.16	11.76	4.55	3.96	3.50	2.89

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued



02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to 1973, 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 to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Partial record site from October 1967 to September 1973. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000. Water-quality measurements and samples for water years 2006 to 2008 were collected by the U.S. Geological Survey and the North Carolina Department of Environment and Natural Resources, Division of Water Quality.

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, 5160 microsiemens, March 29, 2003; minimum recorded, 52 microsiemens, September 17, 1999.

pH: Maximum recorded, 8.1 standard units, July 1, 2, 2002; minimum recorded, 6.1 standard units, September 17, 1999, September 20, 21, 2003, June 16, 17, 2006.

WATER TEMPERATURE: Maximum recorded, 31.4°C, August 4, 2006; minimum recorded, 2.0°C, January 28, 2004.

DISSOLVED OXYGEN: Maximum recorded, 15.5 mg/L, January 6, 7, 1999; minimum recorded, 2.4 mg/L, September 24, 2003.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 123%, January 6, 7, 1999; minimum recorded, 28%, September 24, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 156 microsiemens, October 9, 10, 11; minimum recorded, 98 microsiemens, April 22, 23.

pH: Maximum recorded, 7.6 standard units, June 29, 30; minimum recorded, 6.4 standard units, March 10, April 22, 23.

WATER TEMPERATURE: Maximum recorded, 31.0°C, August 6; minimum recorded, 4.8°C, January 4, 5, 27.

DISSOLVED OXYGEN: Maximum recorded, 13.4 mg/L, January 28; minimum recorded, 5.2 mg/L July 23, 25.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 107%, February 2; minimum recorded, 66%, June 16, July 25.

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	148	132	139	129	114	123	128	127	128	131	129	129
2	152	145	149	131	113	121	128	128	128	130	125	126
3	147	144	145	133	115	124	128	127	128	128	126	127
4	149	136	145	131	117	123	127	126	127	130	127	129
5	143	135	139	133	127	132	127	126	127	129	119	127
6	144	131	139	135	132	134	127	126	126	127	116	120
7	142	131	138	134	132	133	126	125	126	126	114	118
8	136	127	130	133	122	128	126	125	126	124	118	121
9	156	136	150	132	128	131	126	125	126	133	124	131
10	156	154	156	131	122	127	128	125	127	134	126	131
11	156	150	154	130	116	121	130	128	129	134	127	132
12	150	142	147	133	122	128	132	130	131	134	133	133
13	150	135	143	134	126	132	132	128	130	134	133	133
14	149	134	141	135	133	134	131	129	130	134	132	133
15	151	148	150	134	132	133	129	122	128	132	130	131
16	152	146	149	133	130	131	123	120	121	131	130	130
17	148	145	146	132	130	131	130	123	126	130	128	129
18	150	146	147	131	127	130	130	127	129	129	122	125
19	155	149	152	127	120	124	128	115	122	126	122	125
20	154	149	152	126	120	124	122	115	119	125	121	123
21	151	149	150	127	125	126	123	118	121	124	121	123
22	149	136	143	128	127	127	134	121	130	125	124	124
23	147	141	143	128	125	127	135	133	133	124	121	123
24	142	135	139	128	127	128	134	131	133	122	118	120
25	140	115	128	128	127	127	133	132	133	123	120	122
26	134	120	128	128	126	127	134	128	131	124	123	123
27	125	114	116	128	126	127	131	128	130	124	123	123
28	133	115	126	128	122	127	129	124	127	125	123	124
29	137	123	131	125	122	124	127	123	125	125	124	125
30	136	131	132	128	125	126	131	127	129	125	124	125
31	133	121	130	---	---	---	132	130	131	126	125	125
Month	156	114	141	135	113	128	135	115	128	134	114	126

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	126	124	125	136	131	133	141	139	140	118	115	117
2	125	124	124	135	134	135	140	131	136	120	118	119
3	124	120	123	136	134	135	134	132	133	122	118	121
4	121	119	120	137	133	136	135	133	134	124	122	123
5	123	121	122	137	133	135	134	132	133	126	123	125
6	126	123	124	137	133	135	132	129	131	127	125	125
7	126	125	126	133	126	129	129	125	126	125	124	124
8	128	125	127	130	126	128	127	125	126	125	121	124
9	131	128	129	127	106	119	127	126	127	122	119	121
10	131	129	130	106	100	102	129	127	128	122	108	116
11	131	125	130	111	101	106	131	123	128	108	103	105
12	132	129	130	119	111	114	126	122	125	105	103	104
13	131	128	130	125	118	121	126	121	124	105	103	104
14	130	128	129	130	125	127	126	124	125	106	104	105
15	129	127	128	131	128	130	126	123	124	106	104	105
16	127	124	125	132	124	131	125	123	124	107	104	106
17	129	125	127	132	130	131	125	122	124	108	105	107
18	128	123	126	132	129	131	125	123	124	108	106	107
19	128	126	127	132	129	131	126	124	125	109	107	108
20	129	122	127	133	131	132	126	122	124	110	107	109
21	129	126	128	134	131	133	125	108	119	111	108	109
22	130	128	129	135	128	132	108	98	102	113	108	110
23	129	127	128	137	134	135	108	98	102	111	109	110
24	129	127	128	138	136	137	113	107	110	113	109	111
25	127	125	126	139	136	138	117	112	115	114	111	112
26	128	125	126	139	137	138	119	117	118	115	113	113
27	130	123	128	139	137	138	122	118	120	116	113	114
28	131	122	129	139	131	136	123	119	121	117	115	116
29	134	120	130	136	130	133	120	118	119	118	111	116
30	---	---	---	140	135	139	120	115	117	119	113	118
31	---	---	---	141	139	140	---	---	---	120	115	119
Month	134	119	127	141	100	130	141	98	123	127	103	114

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	121	119	120	136	131	134	127	117	122	144	130	136
2	124	121	123	133	131	132	123	116	119	146	134	142
3	124	119	122	136	132	134	124	116	119	146	140	143
4	122	120	121	139	135	137	126	113	122	144	135	141
5	122	121	121	137	117	128	132	126	130	147	116	130
6	122	120	121	134	117	123	133	130	131	139	115	124
7	123	120	122	130	117	123	134	123	130	140	115	128
8	123	121	122	119	113	117	127	119	123	132	119	122
9	124	122	123	129	119	125	130	118	123	143	132	140
10	124	122	123	130	116	124	128	118	122	144	141	142
11	126	124	125	131	114	121	129	123	126	145	142	144
12	127	124	126	129	115	122	133	129	131	145	137	141
13	129	125	128	133	115	125	134	132	133	139	137	138
14	129	126	128	131	118	121	134	131	133	139	136	138
15	129	126	127	138	131	136	134	122	131	140	135	137
16	129	126	128	140	137	138	129	116	122	136	117	130
17	130	128	129	139	137	138	127	116	121	117	111	112
18	132	128	130	138	126	133	133	124	127	117	113	114
19	135	125	129	139	119	128	138	133	136	136	117	127
20	136	132	134	131	119	125	137	128	135	---	---	---
21	136	128	135	129	121	123	137	119	128	---	---	---
22	136	133	135	137	129	134	137	118	125	---	---	---
23	136	134	135	134	117	123	137	124	128	140	133	137
24	137	135	136	126	116	119	146	129	141	133	113	117
25	137	135	136	126	115	118	146	144	145	116	114	114
26	138	131	135	128	115	121	147	145	146	135	116	128
27	139	135	137	127	117	120	147	145	146	136	130	133
28	139	135	138	136	127	131	147	133	144	139	136	138
29	138	132	136	---	---	---	147	140	144	137	133	135
30	136	133	135	135	129	132	144	140	143	136	131	133
31	---	---	---	129	123	125	144	141	143	---	---	---
Month	139	119	129	---	---	---	147	113	131	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	7.4	7.3	7.4	7.2	7.1	7.2	6.8	6.8	6.8	6.7	6.6	6.7
2	7.4	7.3	7.3	7.3	7.2	7.2	7.2	6.8	6.8	6.8	6.7	6.7
3	7.4	7.3	7.3	7.3	7.2	7.2	7.1	7.1	7.1	6.8	6.7	6.7
4	7.3	7.2	7.2	7.3	7.2	7.3	7.2	7.1	7.1	6.9	6.7	6.8
5	7.2	7.2	7.2	7.3	7.0	7.2	7.1	7.1	7.1	6.9	6.8	6.8
6	7.3	7.2	7.2	7.1	7.1	7.1	7.1	7.0	7.0	6.9	6.8	6.9
7	7.3	7.3	7.3	7.1	6.8	6.9	7.0	6.9	6.9	6.9	6.8	6.9
8	7.3	7.2	7.3	7.0	6.9	6.9	6.9	6.8	6.8	7.0	6.9	6.9
9	7.3	7.3	7.3	7.0	6.6	6.8	6.9	6.8	6.9	7.0	6.9	6.9
10	7.4	7.3	7.3	6.6	6.4	6.5	6.9	6.9	6.9	7.0	6.9	6.9
11	7.4	7.3	7.4	6.6	6.5	6.5	7.0	6.9	6.9	7.1	7.0	7.0
12	7.4	7.3	7.4	6.7	6.6	6.7	7.0	6.9	7.0	7.1	7.0	7.0
13	7.4	7.3	7.4	6.7	6.6	6.7	7.0	7.0	7.0	7.0	7.0	7.0
14	7.4	7.3	7.3	6.8	6.7	6.8	7.0	7.0	7.0	7.1	7.0	7.1
15	7.3	7.2	7.3	6.9	6.8	6.8	7.0	7.0	7.0	7.2	7.1	7.1
16	7.2	7.1	7.1	6.9	6.8	6.9	7.0	7.0	7.0	7.2	7.1	7.1
17	7.2	7.1	7.1	6.9	6.8	6.9	7.1	7.0	7.0	7.2	7.1	7.2
18	7.2	7.1	7.1	6.9	6.8	6.9	7.1	6.9	7.0	7.3	7.2	7.2
19	7.1	7.1	7.1	6.9	6.8	6.8	7.0	6.9	6.9	7.3	7.2	7.2
20	7.1	7.1	7.1	7.0	6.8	6.9	6.9	6.8	6.9	7.2	7.2	7.2
21	7.2	7.1	7.2	7.1	6.9	6.9	6.9	6.6	6.8	7.3	7.1	7.2
22	7.2	7.2	7.2	7.1	6.8	6.9	6.6	6.4	6.5	7.2	7.1	7.1
23	7.2	7.1	7.1	6.9	6.8	6.9	6.5	6.4	6.5	7.2	7.1	7.2
24	7.2	7.1	7.1	6.9	6.9	6.9	6.5	6.5	6.5	7.3	7.2	7.3
25	7.1	7.0	7.0	7.0	6.9	6.9	6.6	6.5	6.6	7.3	7.3	7.3
26	7.0	7.0	7.0	7.0	6.9	6.9	6.7	6.6	6.6	7.3	7.3	7.3
27	7.1	7.0	7.1	7.0	6.8	6.9	6.8	6.6	6.7	7.3	7.2	7.3
28	7.1	7.1	7.1	7.1	6.8	6.9	6.9	6.8	6.8	7.3	7.2	7.2
29	7.2	7.1	7.1	7.0	6.8	6.8	6.8	6.6	6.8	7.3	7.2	7.2
30	---	---	---	6.8	6.8	6.8	6.6	6.6	6.6	7.2	7.2	7.2
31	---	---	---	6.8	6.8	6.8	---	---	---	7.4	7.2	7.3
Max	7.4	7.3	7.4	7.3	7.2	7.3	7.2	7.1	7.1	7.4	7.3	7.3
Min	7.0	7.0	7.0	6.6	6.4	6.5	6.5	6.4	6.5	6.7	6.6	6.7

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	7.3	7.2	7.3	7.3	7.2	7.3	6.9	6.7	6.8	7.0	6.9	7.0
2	7.4	7.2	7.3	7.3	7.2	7.2	6.8	6.7	6.8	7.1	6.9	7.0
3	7.4	7.3	7.3	7.3	7.2	7.3	6.9	6.8	6.8	7.0	6.9	6.9
4	7.5	7.3	7.3	7.2	7.2	7.2	7.0	6.8	6.9	7.0	6.8	6.9
5	7.4	7.3	7.3	7.2	7.1	7.1	7.1	6.9	7.0	6.9	6.8	6.8
6	7.4	7.3	7.3	7.2	7.1	7.1	7.1	6.9	7.0	6.9	6.8	6.8
7	7.4	7.3	7.3	7.1	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8
8	7.4	7.2	7.3	7.0	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.8
9	7.4	7.2	7.3	7.0	6.9	6.9	7.0	6.8	6.9	6.9	6.8	6.9
10	7.4	7.2	7.2	7.0	6.9	6.9	7.0	6.9	6.9	7.0	6.9	6.9
11	7.4	7.2	7.3	7.0	6.8	6.9	7.0	6.9	7.0	7.0	6.9	6.9
12	7.3	7.2	7.3	7.0	6.9	6.9	7.1	6.9	7.0	7.0	6.9	7.0
13	7.4	7.2	7.3	7.0	6.9	7.0	7.0	6.9	6.9	7.0	6.9	6.9
14	7.4	7.2	7.3	7.0	6.9	7.0	7.0	6.9	6.9	7.0	6.9	7.0
15	7.4	7.3	7.3	7.1	7.0	7.0	7.0	6.8	6.9	7.0	6.9	7.0
16	7.4	7.2	7.3	7.1	7.0	7.1	6.9	6.8	6.9	7.0	6.8	6.9
17	7.4	7.3	7.3	7.2	7.0	7.1	7.0	6.9	6.9	6.9	6.8	6.8
18	7.4	7.2	7.3	7.2	7.0	7.1	7.0	6.9	7.0	7.0	6.9	6.9
19	7.3	7.2	7.3	7.0	7.0	7.0	7.0	6.9	7.0	7.0	6.9	7.0
20	7.3	7.3	7.3	7.1	7.0	7.0	7.0	6.9	6.9	---	---	---
21	7.3	7.3	7.3	7.1	7.0	7.0	6.9	6.8	6.9	---	---	---
22	7.3	7.3	7.3	7.1	7.0	7.1	7.0	6.9	6.9	---	---	---
23	7.3	7.3	7.3	7.0	7.0	7.0	7.0	6.9	7.0	7.0	6.9	7.0
24	7.3	7.3	7.3	7.0	6.8	6.9	7.0	6.9	6.9	7.0	6.9	7.0
25	7.4	7.3	7.3	6.9	6.8	6.8	7.0	6.9	6.9	7.1	7.0	7.0
26	7.3	7.3	7.3	6.9	6.8	6.8	7.0	6.9	6.9	7.1	7.0	7.0
27	7.4	7.3	7.3	6.9	6.8	6.8	7.0	6.9	6.9	7.1	7.0	7.0
28	7.4	7.3	7.3	7.0	6.8	6.9	7.0	6.9	6.9	7.1	7.0	7.0
29	7.6	7.3	7.4	7.0	6.9	6.9	7.0	6.9	6.9	7.0	6.9	7.0
30	7.6	7.3	7.3	7.0	6.9	6.9	7.0	6.8	6.9	7.0	6.9	6.9
31	---	---	---	6.9	6.8	6.9	7.0	6.9	6.9	---	---	---
Max	7.6	7.3	7.4	7.3	7.2	7.3	7.1	6.9	7.0	---	---	---
Min	7.3	7.2	7.2	6.9	6.8	6.8	6.8	6.7	6.8	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	23.2	22.7	22.9	18.6	17.7	18.2	11.0	10.2	10.7	10.0	8.9	9.5
2	23.3	22.7	23.0	18.7	17.8	18.2	10.5	10.1	10.3	8.9	7.0	7.9
3	24.3	23.1	23.6	17.8	16.7	17.4	11.2	10.4	10.8	7.0	5.6	6.3
4	25.1	24.0	24.5	16.7	15.9	16.4	10.6	9.9	10.4	5.6	4.8	5.2
5	25.2	24.6	24.9	15.9	15.2	15.5	9.9	9.6	9.7	5.9	4.8	5.3
6	25.1	24.7	24.9	15.3	14.8	15.2	9.6	8.2	8.9	6.7	5.7	6.2
7	25.4	24.4	24.9	14.8	14.0	14.5	8.4	7.9	8.2	7.9	6.5	7.3
8	25.4	24.6	25.1	14.0	13.4	13.7	8.8	8.1	8.5	8.6	7.8	8.2
9	26.0	25.0	25.5	13.4	13.0	13.2	9.8	8.8	9.3	9.5	8.6	9.1
10	25.8	25.5	25.7	13.5	12.9	13.3	11.3	9.8	10.6	9.7	9.4	9.5
11	25.5	23.8	24.9	13.1	12.4	12.9	12.1	11.3	11.8	10.6	9.4	10.1
12	23.8	22.0	22.8	12.9	12.2	12.5	12.3	11.6	11.9	10.8	10.1	10.5
13	22.0	20.8	21.4	13.4	12.6	13.0	12.7	12.0	12.3	10.1	9.6	9.9
14	20.8	20.0	20.4	14.4	13.3	13.8	13.0	12.4	12.7	9.6	8.3	9.2
15	20.4	19.8	20.1	14.7	14.2	14.5	12.4	11.2	11.8	8.3	7.1	7.8
16	20.8	20.0	20.4	14.3	12.9	13.5	11.2	10.1	10.8	7.1	6.6	6.8
17	21.1	20.5	20.8	13.0	12.2	12.5	10.1	8.6	9.4	6.8	6.5	6.6
18	21.9	20.8	21.5	12.2	11.5	11.8	8.6	8.0	8.2	7.2	6.7	6.9
19	22.8	21.8	22.4	12.5	11.8	12.2	8.7	7.9	8.3	7.3	7.0	7.1
20	22.9	22.2	22.7	13.0	12.2	12.6	8.5	8.0	8.3	7.0	6.2	6.6
21	22.2	21.5	21.9	13.6	12.8	13.2	8.4	8.0	8.2	6.3	5.4	5.9
22	21.5	21.1	21.3	14.6	13.6	14.1	8.9	8.0	8.4	5.5	5.0	5.3
23	21.8	21.0	21.4	14.4	13.3	14.0	10.2	8.9	9.6	6.2	5.3	5.7
24	22.6	21.6	22.1	13.3	12.2	12.7	10.2	9.8	10	6.1	5.9	6.0
25	22.5	21.9	22.3	12.2	11.5	11.9	9.8	9.3	9.6	6.0	5.4	5.7
26	22.1	21.8	22.0	12.1	11.5	11.8	9.3	8.2	8.9	5.5	5.1	5.3
27	22.0	21.3	21.7	13.0	12.1	12.7	8.2	7.8	8.0	5.1	4.8	5.0
28	21.3	20.0	20.7	12.9	12.4	12.6	8.2	7.8	8.0	5.4	4.9	5.1
29	20.0	18.5	19.2	12.5	12.0	12.3	9.7	8.2	8.9	6.0	5.3	5.7
30	18.5	17.3	17.9	12.0	10.9	11.6	10.3	9.7	10.1	6.8	6.0	6.6
31	17.9	16.9	17.3	---	---	---	10.4	10.0	10.2	7.0	6.7	6.8
Month	26.0	16.9	22.3	18.7	10.9	13.7	13.0	7.8	9.8	10.8	4.8	7.1

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	7.5	6.8	7.2	8.7	8.0	8.3	14.0	12.7	13.3	18.2	17.8	18.0
2	7.3	6.8	7.0	9.4	8.4	9.0	15.0	14.0	14.5	18.2	17.6	17.9
3	7.2	6.5	6.9	10.2	9.1	9.7	14.9	14.1	14.4	19.1	18.0	18.6
4	8.0	7.2	7.6	11.6	9.9	10.7	14.3	13.5	13.9	20.2	18.9	19.7
5	9.3	8.0	8.6	12.3	11.5	11.9	14.2	13.6	14.0	20.5	19.8	20.1
6	10.7	9.3	10	12.7	12.2	12.4	14.6	14.1	14.3	20.8	19.8	20.3
7	11.2	10.7	10.9	12.6	12.2	12.4	14.3	13.6	14.0	20.2	19.7	19.9
8	11.3	10.8	11.0	12.5	12.2	12.4	13.6	13.0	13.3	20.2	19.7	20.0
9	10.9	10.2	10.6	12.4	11.2	11.7	13.9	13.2	13.5	20.3	19.7	20.1
10	10.2	9.6	9.9	11.8	11.4	11.6	15.2	13.8	14.4	20.2	19.9	20.1
11	9.6	9.0	9.2	11.8	11.0	11.4	15.2	14.8	15.0	19.9	19.2	19.7
12	9.1	8.6	8.9	12.0	11.4	11.8	15.5	14.7	15.1	19.3	18.6	19.0
13	9.7	9.1	9.4	12.7	11.9	12.3	16.3	15.5	15.9	18.8	18.3	18.6
14	9.8	9.3	9.6	13.0	12.5	12.8	15.9	15.2	15.6	18.9	18.4	18.7
15	9.5	9.1	9.3	13.8	12.8	13.3	15.2	14.7	14.9	19.0	18.6	18.8
16	9.4	9.0	9.2	13.7	13.0	13.5	15.0	14.4	14.7	19.8	18.8	19.4
17	9.4	8.9	9.2	13.2	12.7	12.9	15.2	14.5	14.9	20.4	19.6	20.0
18	10.4	9.4	10.1	12.8	12.2	12.6	15.7	14.8	15.2	20.4	20.0	20.2
19	10.6	9.9	10.2	13.0	12.1	12.5	16.3	15.7	16.1	20.3	20.0	20.2
20	10.5	9.8	10.2	13.9	13.0	13.6	16.9	16.3	16.7	20.2	19.9	20.1
21	10.2	8.9	9.4	14.0	13.2	13.6	16.9	16.0	16.4	20.2	20.0	20.1
22	9.0	8.3	8.6	14.7	13.7	14.1	16.6	16.2	16.3	20.3	19.9	20.1
23	8.7	8.2	8.4	14.3	13.5	13.9	16.8	16.5	16.7	20.3	20.0	20.2
24	8.5	8.0	8.3	14.0	13.2	13.6	17.6	16.7	17.1	20.4	20.1	20.3
25	9.2	8.4	8.8	13.7	12.7	13.1	18.1	17.5	17.8	20.9	20.2	20.5
26	9.4	9.0	9.2	13.6	12.7	13.0	18.7	17.7	18.2	21.0	20.6	20.8
27	9.5	8.7	9.2	14.3	12.9	13.5	19.1	18.2	18.5	22.0	20.9	21.5
28	8.7	8.0	8.3	15.4	13.7	14.5	19.6	18.2	18.8	22.1	21.4	21.8
29	8.3	7.6	8.0	15.5	14.3	15.0	18.4	17.5	18.1	21.9	21.2	21.6
30	---	---	---	14.4	13.1	14.0	18.2	17.4	17.8	22.0	21.4	21.8
31	---	---	---	13.4	12.8	13.1	---	---	---	22.8	21.8	22.3
Month	11.3	6.5	9.1	15.5	8.0	12.5	19.6	12.7	15.6	22.8	17.6	20.0

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	23.4	22.1	22.8	29.0	28.3	28.6	29.8	28.9	29.4	28.0	27.2	27.7
2	24.5	23.1	23.7	28.8	27.8	28.4	29.6	29.1	29.3	27.9	26.8	27.3
3	24.6	23.5	24.1	29.2	28.1	28.6	30.2	29.4	29.8	27.8	26.3	27.1
4	24.7	23.6	24.1	29.4	28.0	28.6	30.0	29.1	29.7	27.7	26.5	27.1
5	25.3	23.9	24.6	29.0	28.0	28.5	30.7	29.3	30.0	27.7	27.0	27.2
6	26.8	24.8	25.9	28.3	27.6	28.0	31.0	29.9	30.4	27.0	26.1	26.7
7	27.4	26.1	26.7	27.8	26.7	27.1	30.2	29.3	29.8	27.0	25.8	26.4
8	27.0	25.7	26.3	28.0	27.0	27.4	29.6	28.8	29.1	27.4	26.4	26.9
9	27.9	25.8	26.7	27.6	27.0	27.3	29.6	28.5	29.0	28.2	27.1	27.6
10	27.8	26.4	27.1	27.4	26.6	27.1	28.8	27.8	28.3	27.7	26.9	27.5
11	28.3	26.6	27.3	27.9	26.8	27.2	28.3	27.3	27.8	27.1	26.3	26.7
12	28.3	26.9	27.6	28.1	27.1	27.7	28.1	26.6	27.4	26.9	25.7	26.3
13	28.2	27.0	27.5	28.6	27.3	27.9	27.3	26.3	26.9	27.6	26.1	26.8
14	27.7	26.7	27.3	28.1	27.4	27.7	27.2	25.9	26.5	28.6	27.1	27.8
15	27.7	26.6	27.2	28.6	27.4	27.9	27.1	26.2	26.6	28.8	27.8	28.3
16	28.0	26.7	27.4	28.1	27.1	27.6	27.5	26.6	27.1	28.1	26.8	27.6
17	28.4	27.5	27.9	28.2	26.9	27.6	27.7	26.8	27.3	26.8	25.6	26.1
18	28.4	27.3	27.7	28.8	27.4	28.1	28.0	27.1	27.5	25.6	24.8	25.1
19	27.6	26.2	27.0	28.6	27.6	28.0	28.2	26.9	27.5	24.8	23.7	24.2
20	27.3	26.3	26.8	29.1	27.5	28.2	28.0	27.2	27.5	---	---	---
21	27.2	26.3	26.9	29.4	27.9	28.7	27.8	26.7	27.2	---	---	---
22	27.4	26.6	26.9	29.8	28.6	29.4	27.4	26.7	27.1	---	---	---
23	27.8	27.0	27.2	28.8	27.9	28.4	27.3	26.7	27.0	23.8	22.7	23.2
24	28.0	26.9	27.5	28.3	27.5	27.9	27.7	26.4	27.0	23.4	22.2	22.9
25	28.7	27.4	28.0	27.7	27.1	27.4	28.1	26.3	27.2	22.2	21.2	21.6
26	29.0	27.8	28.4	28.4	27.3	27.8	27.9	27.0	27.4	22.1	21.1	21.5
27	29.4	28.3	28.8	28.4	27.3	27.9	27.2	26.4	26.8	23.0	21.7	22.2
28	29.6	28.8	29.1	29.3	27.6	28.4	26.8	25.9	26.4	23.4	22.6	23.0
29	29.7	28.7	29.2	29.8	28.4	29.0	27.2	26.1	26.6	24.4	23.2	23.7
30	29.3	28.7	29.0	30.2	28.9	29.4	27.5	26.4	27.0	24.1	23.5	23.8
31	---	---	---	29.8	29.1	29.4	28.4	27.4	27.9	---	---	---
Month	29.7	22.1	26.9	30.2	26.6	28.1	31.0	25.9	27.9	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	7.6	7.0	7.3	8.2	7.7	8.0	9.9	9.5	9.8	---	---	---
2	7.8	7.0	7.4	8.2	7.7	8.0	10.0	9.7	9.9	---	---	---
3	7.6	7.0	7.3	8.4	8.0	8.2	10.0	9.6	9.8	---	---	---
4	7.5	7.0	7.2	8.5	8.0	8.3	10.0	9.6	9.8	12.4	11.6	11.8
5	7.4	6.9	7.1	8.7	8.1	8.5	10.1	9.6	9.9	12.3	11.7	12.0
6	7.1	6.8	7.0	8.8	8.5	8.7	10.5	9.8	10.2	12.2	11.7	12.0
7	7.2	6.7	7.0	9.0	8.6	8.8	10.9	10.3	10.7	12.0	11.6	11.8
8	7.1	6.7	6.9	9.1	8.8	9.0	10.9	10.6	10.8	11.8	11.5	11.6
9	7.2	6.7	6.9	9.4	9.0	9.1	10.9	10.6	10.7	11.6	11.2	11.4
10	7.0	6.5	6.8	9.2	9.0	9.1	10.6	10.0	10.4	11.4	11.1	11.2
11	7.1	6.6	6.9	9.5	9.0	9.2	10.2	9.8	10.0	11.2	10.6	10.9
12	7.5	6.9	7.2	9.6	9.3	9.4	10.1	9.9	10.0	10.8	10.5	10.7
13	7.8	7.2	7.5	9.7	9.2	9.4	10.3	9.6	10.1	10.8	10.2	10.6
14	8.1	7.5	7.8	9.5	8.9	9.2	10.0	9.4	9.8	10.9	10.3	10.7
15	8.2	7.8	8.0	9.1	8.8	8.9	10.0	9.4	9.7	11.4	10.7	11.2
16	8.2	7.8	8.0	9.2	8.6	8.9	10.3	9.8	10	11.8	11.3	11.6
17	8.1	7.7	7.9	9.5	8.9	9.2	10.8	10.0	10.4	12.1	11.7	11.9
18	8.0	7.4	7.8	9.6	9.2	9.4	11.1	10.4	10.8	12.2	11.8	12.0
19	7.7	7.3	7.5	9.6	9.4	9.5	11.3	10.3	10.8	12.1	11.8	11.9
20	7.4	7.2	7.3	9.6	9.3	9.4	10.9	10.5	10.8	12.3	11.8	12.0
21	7.6	7.2	7.4	9.5	9.1	9.3	11.1	10.7	10.9	12.5	12.2	12.3
22	7.7	7.3	7.5	9.2	8.9	9.1	11.2	10.6	10.9	13.1	12.4	12.7
23	8.0	7.4	7.7	9.2	8.9	9.0	11.0	10.3	10.6	13.1	12.6	12.9
24	7.8	7.1	7.5	9.4	9.0	9.2	10.6	10.2	10.4	12.8	12.5	12.7
25	7.5	7.2	7.3	9.6	9.1	9.4	10.6	10.2	10.4	12.8	12.6	12.7
26	7.3	7.0	7.1	9.8	9.5	9.6	10.9	10.3	10.6	13.1	12.6	12.8
27	7.2	7.0	7.1	9.6	9.1	9.4	11.1	10.6	10.9	13.3	12.9	13.1
28	7.3	6.9	7.2	9.3	9.1	9.2	11.1	10.5	10.8	13.4	13.0	13.2
29	7.8	7.3	7.6	9.3	9.0	9.1	10.7	10.1	10.4	13.2	12.8	13.0
30	8.2	7.6	7.9	9.6	9.1	9.4	10.4	9.9	10.2	13.0	12.6	12.8
31	8.4	8.1	8.3	---	---	---	10.2	9.8	10	12.8	12.5	12.7
Month	8.4	6.5	7.4	9.8	7.7	9.0	11.3	9.4	10.3	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	12.8	12.3	12.5	11.9	11.6	11.7	9.2	8.9	9.1	8.1	7.6	7.8
2	12.9	12.4	12.6	11.8	11.2	11.6	9.6	8.7	9.1	8.3	7.7	8.0
3	12.8	12.5	12.7	11.7	11.2	11.5	9.1	8.9	9.0	8.6	7.8	8.2
4	12.6	12.1	12.3	11.6	10.9	11.3	9.3	8.9	9.1	8.6	8.0	8.3
5	12.3	11.9	12.1	11.2	10.6	10.9	9.2	8.9	9.1	8.5	7.8	8.2
6	12.1	10.9	11.5	10.8	10.3	10.5	8.9	8.6	8.8	8.4	7.8	8.1
7	11.0	10.4	10.6	10.5	9.5	9.8	8.7	8.4	8.6	8.4	8.0	8.2
8	10.6	10.0	10.3	10.2	9.6	9.8	8.9	8.5	8.7	8.6	8.0	8.3
9	10.5	10.0	10.2	9.9	9.1	9.5	9.0	8.7	8.8	8.6	7.8	8.2
10	10.6	10.0	10.4	9.2	8.7	8.9	9.2	8.7	8.9	8.2	7.8	8.1
11	10.7	10.2	10.5	9.6	8.9	9.2	9.1	8.5	8.8	8.4	7.9	8.1
12	10.9	10.4	10.7	9.7	9.3	9.5	9.1	8.7	8.9	8.4	7.9	8.2
13	10.9	10.5	10.7	9.8	9.4	9.5	9.0	8.4	8.6	8.3	8.1	8.2
14	10.8	10.4	10.6	9.8	9.4	9.6	8.8	8.5	8.7	8.7	8.0	8.5
15	10.9	10.6	10.7	9.8	9.3	9.5	9.0	8.8	8.9	8.8	8.1	8.4
16	11.2	10.6	10.8	9.6	9.1	9.4	9.2	8.8	9.0	8.8	7.8	8.4
17	11.2	10.8	11.0	9.6	9.3	9.5	9.2	8.8	9.0	8.6	7.6	8.3
18	11.1	10.4	10.7	9.7	9.3	9.5	9.2	8.7	8.9	8.4	7.7	8.2
19	10.7	10.4	10.5	9.9	9.4	9.6	9.2	8.4	8.7	8.5	7.4	8.0
20	10.7	10.0	10.4	9.8	9.3	9.5	8.9	8.2	8.6	8.2	7.8	8.0
21	11.2	10.5	10.8	9.9	9.2	9.5	8.6	7.6	8.2	8.2	7.4	7.7
22	11.4	11.0	11.2	10.0	8.9	9.4	7.7	7.1	7.4	7.8	7.5	7.6
23	11.4	10.9	11.2	9.3	9.0	9.2	7.6	7.2	7.4	7.8	7.3	7.6
24	11.3	11.0	11.1	9.3	9.0	9.1	7.4	6.7	7.1	7.9	7.5	7.7
25	11.1	10.6	10.9	9.4	9.0	9.2	7.6	6.8	7.2	8.0	7.5	7.8
26	10.9	10.6	10.7	9.6	9.2	9.4	8.0	7.3	7.7	8.0	7.6	7.8
27	11.1	10.7	10.8	9.5	9.2	9.3	8.0	7.4	7.7	---	---	---
28	11.4	10.9	11.2	10.0	8.9	9.4	8.2	7.5	7.9	8.3	7.6	7.9
29	11.7	11.0	11.4	9.5	8.7	8.9	8.2	7.8	7.9	8.2	7.6	7.8
30	---	---	---	8.8	8.5	8.6	8.0	7.8	7.8	7.9	7.4	7.7
31	---	---	---	9.2	8.6	8.9	---	---	---	8.2	7.5	7.8
Month	12.9	10.0	11.1	11.9	8.5	9.7	9.6	6.7	8.5	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	8.2	7.5	7.8	6.8	6.3	6.5	6.1	5.3	5.7	7.4	6.7	7.0
2	8.1	7.3	7.7	6.5	6.0	6.3	5.7	5.3	5.5	7.3	6.7	7.0
3	---	---	---	6.8	6.2	6.5	6.3	5.7	5.9	7.4	6.3	6.8
4	7.5	6.7	7.1	6.5	5.8	6.3	6.7	6.0	6.3	6.6	5.9	6.3
5	7.3	6.7	7.0	6.3	5.8	6.0	6.7	6.1	6.4	6.1	5.7	5.8
6	7.4	6.7	7.0	6.4	5.8	6.2	6.5	6.0	6.2	6.0	5.6	5.8
7	7.1	6.5	6.8	6.0	5.6	5.8	6.2	5.8	6.0	6.0	5.6	5.8
8	7.1	6.4	6.7	6.1	5.6	5.9	6.1	5.6	5.9	5.8	5.4	5.6
9	7.0	6.3	6.7	6.0	5.4	5.6	6.3	5.6	6.0	5.9	5.6	5.7
10	6.8	6.1	6.4	6.0	5.4	5.7	6.5	5.9	6.2	5.9	5.5	5.7
11	6.5	6.0	6.2	6.2	5.3	5.7	6.8	6.1	6.5	6.2	5.5	5.9
12	6.5	5.6	6.0	6.1	5.5	5.9	6.9	6.4	6.7	6.5	6.0	6.2
13	6.4	5.8	6.1	6.2	5.5	6.0	6.7	6.3	6.5	6.4	6.0	6.2
14	6.4	5.8	6.1	6.3	5.7	6.1	6.9	6.3	6.6	6.4	6.0	6.2
15	6.2	5.6	5.8	6.2	5.9	6.1	6.6	6.1	6.5	6.5	5.9	6.1
16	5.9	5.3	5.6	6.5	6.0	6.3	6.7	6.0	6.3	6.1	5.4	5.8
17	6.0	5.4	5.7	6.7	6.1	6.4	7.0	6.4	6.7	6.1	5.5	5.8
18	6.8	5.4	5.9	6.7	6.0	6.4	7.2	6.6	6.8	6.6	6.0	6.3
19	7.1	6.6	6.9	6.1	5.7	5.9	7.2	6.6	6.9	6.9	6.4	6.7
20	7.1	6.7	6.9	6.3	5.6	6.0	6.9	6.4	6.7	---	---	---
21	6.9	6.2	6.5	6.5	5.4	5.9	6.7	6.0	6.4	---	---	---
22	6.3	6.0	6.2	6.2	5.5	5.9	7.2	6.4	6.7	---	---	---
23	6.2	5.8	6.0	5.9	5.2	5.6	7.3	6.7	7.0	7.1	6.7	6.9
24	6.3	5.8	6.1	5.8	5.4	5.6	7.4	6.8	7.1	7.3	6.5	7.0
25	6.4	6.0	6.2	5.7	5.2	5.4	7.6	6.9	7.2	7.7	7.2	7.5
26	6.5	6.2	6.4	5.9	5.4	5.6	7.3	6.8	7.1	7.6	7.3	7.4
27	6.7	6.3	6.6	6.0	5.5	5.8	7.2	6.8	7.0	7.6	7.1	7.3
28	6.6	6.3	6.5	6.2	5.6	5.9	7.5	6.8	7.1	7.4	6.8	7.1
29	6.6	6.2	6.4	---	---	---	7.4	6.7	7.0	7.0	6.6	6.8
30	6.6	6.2	6.4	---	---	---	7.2	6.5	6.8	7.0	6.5	6.7
31	---	---	---	---	---	---	7.1	6.4	6.7	---	---	---
Month	---	---	---	---	---	---	7.6	5.3	6.5	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	89	82	85	87	83	85	90	86	88	---	---	---
2	91	81	86	87	82	85	90	87	88	---	---	---
3	90	83	86	88	84	85	91	86	88	---	---	---
4	91	83	87	87	82	85	90	85	88	98	92	93
5	90	84	86	88	81	85	89	85	87	98	93	95
6	86	82	85	88	85	87	90	86	88	99	94	97
7	88	80	85	89	85	86	93	88	91	100	96	98
8	87	81	84	89	85	87	93	91	92	100	97	99
9	89	81	85	90	86	87	94	93	93	100	98	99
10	86	80	84	89	85	87	95	91	94	101	97	98
11	86	80	83	91	85	87	94	91	92	98	95	97
12	87	81	84	91	87	89	95	89	93	98	94	96
13	88	82	85	93	87	90	97	91	94	96	90	94
14	90	83	87	92	87	89	94	89	92	95	91	93
15	91	86	88	90	86	88	93	88	90	96	91	94
16	92	86	89	89	83	86	93	88	90	97	93	95
17	91	86	88	90	84	87	94	88	91	99	96	97
18	92	83	88	89	85	87	94	89	92	101	97	99
19	89	85	87	90	87	89	96	88	92	100	97	99
20	86	84	85	91	87	89	93	90	92	100	96	98
21	87	82	84	90	87	89	95	91	93	100	98	99
22	87	83	85	90	87	89	95	91	93	104	98	101
23	91	83	88	90	85	88	95	91	93	105	101	103
24	89	82	86	89	86	87	94	90	92	103	100	102
25	87	82	84	88	85	87	93	90	92	103	100	101
26	84	80	82	91	87	89	94	90	92	103	100	102
27	82	80	81	90	86	88	94	90	92	104	101	103
28	82	78	80	88	85	86	93	89	91	105	102	104
29	85	80	82	87	84	86	92	88	90	106	102	104
30	86	81	84	88	85	87	93	88	91	105	103	104
31	87	84	86	---	---	---	91	87	89	106	102	104
Month	92	78	85	93	81	87	97	85	91	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	106	102	104	102	98	100	90	84	87	86	80	83
2	107	102	105	102	97	100	95	85	90	88	81	85
3	106	102	104	104	98	101	90	87	88	93	83	88
4	105	101	103	105	100	102	91	86	88	95	88	91
5	106	101	104	104	99	101	90	87	88	95	86	90
6	106	98	102	101	96	98	88	84	86	94	86	90
7	100	94	96	99	89	92	85	82	83	93	88	91
8	96	91	93	96	90	92	85	82	83	95	88	92
9	94	90	92	93	84	88	87	83	85	95	86	91
10	95	88	92	85	80	82	92	84	88	91	86	89
11	93	90	91	88	82	84	91	85	87	92	86	89
12	95	90	92	90	86	88	91	86	89	91	86	89
13	95	92	94	91	88	89	91	86	87	89	87	88
14	95	91	94	93	89	90	89	86	87	94	86	91
15	95	92	94	93	89	91	89	87	88	95	87	91
16	97	92	94	93	87	90	91	87	89	96	86	92
17	98	94	96	92	88	90	92	87	89	94	84	91
18	97	93	95	92	87	90	92	86	88	93	85	91
19	95	93	94	94	88	91	93	86	88	94	82	89
20	95	89	92	94	89	92	92	84	88	91	86	88
21	97	93	95	96	88	91	89	78	84	91	82	86
22	98	94	96	97	87	92	79	73	76	86	83	84
23	98	93	95	91	87	89	78	74	76	87	81	84
24	97	93	95	90	86	88	76	70	74	88	83	85
25	96	92	94	91	86	88	80	71	76	89	84	86
26	95	93	94	92	88	89	86	77	82	90	85	88
27	96	93	94	93	88	90	87	79	83	---	---	---
28	97	93	95	100	86	92	90	80	85	95	86	91
29	99	92	96	95	85	88	87	82	84	93	86	89
30	---	---	---	86	81	84	84	82	83	91	84	88
31	---	---	---	88	82	85	---	---	---	96	86	90
Month	107	88	96	105	80	91	95	70	85	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

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