

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

## WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (TOP): May 2000 to current year.

SPECIFIC CONDUCTANCE (BOTTOM): November 1997 to current year

pH (TOP): May 2000 to current year.

pH (BOTTOM): November 1997 to current year.

WATER TEMPERATURE (TOP): May 2000 to current year.

WATER TEMPERATURE (BOTTOM): November 1997 to current year.

DISSOLVED OXYGEN (TOP): May 2000 to current year.

DISSOLVED OXYGEN (BOTTOM): November 1997 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP): May 2000 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM): November 1997 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. Top constituents were monitored at approximately 18 ft above the streambed and bottom constituents, 2 ft above the streambed. 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 as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	9,880, February 2, 2002	73, June 20, 21, 2001
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	11,700 February 2, 2002	48, September 21, 1999
pH (TOP), standard units	8.0, August 19, 2002	6.0, June 19, 21, 22, 2001
pH (BOTTOM), standard units	7.7, June 17, 2000	5.8, March 4, 1998, September 18-22, 1999
WATER TEMPERATURE (TOP), °C	31.6, August 4, 2002	2.5, January 24, 2003
WATER TEMPERATURE (BOTTOM), °C	31.0, July 30, 1998, August 2, 1999	2.5, January 24, 2003
DISSOLVED OXYGEN (TOP), mg/L	12.6, February 22, 2003	<1.0, on several days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	14.0, January 6, 7, 2001, January 11, 2002	<1.0, on many days during period
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	115, May 11, 2003	<10, on several days during the period
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	115, November 30, 1999	< 10, on many days during period

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

## EXTREMES FOR CURRENT WATER YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	7, 940, October 6	80, May 4
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	9,260, October 4	84, April 25
pH (TOP), standard units	7.6, October 4, February 22	6.1, August 28
pH (BOTTOM), standard units	7.4, October 15, 16	6.2, November 29, April 30, May 1
WATER TEMPERATURE (TOP), C	28.0, August 31, September 3	2.5, January 24
WATER TEMPERATURE (BOTTOM), C	27.9, September 3	2.5, January 24
DISSOLVED OXYGEN (TOP), mg/L	12.6, February 22	<1.0, September 20-30
DISSOLVED OXYGEN (BOTTOM), mg/L	12.5, February 22, 23	<1.0, September 20-30
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	115, May 11	<10, September 20-30
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	101, February 22, 23	<10, September 20-30

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	943	383	502	293	230	247	146	140	144	143	138	140
2	750	332	465	630	258	309	152	145	148	142	137	139
3	1,120	368	567	464	267	301	165	147	152	137	134	136
4	1,760	289	631	328	258	280	155	148	152	137	134	135
5	1,670	529	887	553	243	298	159	142	151	137	134	135
6	7,940	760	3,030	527	185	281	151	140	145	135	126	131
7	1,580	654	1,060	298	181	236	155	150	153	126	125	126
8	1,970	685	1,120	360	203	255	158	155	156	128	125	126
9	1,240	676	882	316	216	243	180	155	160	135	125	129
10	3,480	608	1,120	685	208	312	173	158	162	135	131	133
11	3,640	547	1,220	2,150	299	596	205	149	169	138	133	135
12	1,430	355	745	850	259	467	171	146	157	140	134	137
13	1,100	274	439	850	335	456	177	144	161	142	137	140
14	2,020	521	950	343	178	201	173	155	165	145	139	142
15	4,030	398	918	202	173	187	198	164	172	146	130	139
16	4,120	238	1,340	183	169	176	174	162	168	137	131	134
17	269	217	237	180	164	172	174	160	163	139	125	134
18	288	252	269	168	156	161	162	137	153	146	136	140
19	412	265	323	180	157	169	163	145	153	144	132	138
20	570	303	383	163	144	154	167	159	162	148	137	142
21	4,720	303	754	147	140	143	163	157	159	155	116	142
22	613	295	449	144	135	138	165	156	160	143	132	138
23	399	270	339	141	135	138	164	149	155	150	131	139
24	3,180	248	679	145	141	142	154	149	151	139	112	126
25	794	224	434	145	137	141	155	141	144	142	112	126
26	289	215	251	144	139	141	143	140	141	145	114	129
27	388	217	276	145	139	141	142	138	140	148	133	140
28	448	253	325	144	139	141	141	137	138	145	114	137
29	519	283	382	144	141	142	141	137	139	160	120	148
30	668	236	405	148	140	145	141	137	139	163	140	151
31	269	219	239	---	---	---	141	139	140	149	142	146
MONTH	7,940	215	697	2,150	135	230	205	137	153	163	112	137



## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6,090	2,320	5,640	3,090	219	612	154	149	152	141	137	139
2	8,820	5,900	7,140	3,590	2,450	3,340	159	153	156	140	137	138
3	9,220	8,820	9,040	3,290	2,370	3,070	174	155	160	138	134	135
4	9,260	8,920	9,190	5,480	2,990	4,710	162	155	159	136	134	134
5	9,100	8,840	8,950	5,540	349	4,660	166	148	157	137	134	135
6	8,900	4,620	7,370	4,440	360	2,620	158	147	151	135	126	131
7	6,510	5,930	6,190	3,870	423	3,270	160	155	159	126	124	125
8	6,390	2,440	4,440	4,210	2,200	3,550	164	160	161	127	124	125
9	3,210	1,440	1,980	6,440	4,160	5,100	187	160	165	134	124	128
10	5,430	3,210	4,790	7,570	6,060	6,710	178	163	168	135	131	133
11	5,560	5,420	5,500	8,300	7,530	7,920	218	157	177	137	132	134
12	5,560	4,200	5,420	8,170	3,320	7,640	176	151	161	139	133	136
13	5,460	1,030	3,820	7,750	311	1,990	181	153	166	141	136	139
14	4,940	505	2,930	311	172	192	177	158	168	144	139	141
15	4,120	427	1,250	190	165	179	203	167	175	145	130	137
16	4,390	234	1,460	175	163	169	176	165	170	136	130	133
17	3,710	223	1,170	173	157	164	177	161	165	---	---	---
18	4,460	3,710	4,320	162	149	155	163	137	154	---	---	---
19	6,450	4,450	5,480	171	152	162	163	146	154	---	---	---
20	7,260	6,410	6,790	160	151	155	167	160	162	---	---	---
21	7,990	2,970	6,660	155	150	152	163	157	160	---	---	---
22	6,120	3,690	5,330	155	145	148	165	155	159	---	---	---
23	6,270	5,880	6,090	151	145	148	163	148	153	---	---	---
24	6,020	1,450	4,870	154	150	151	152	148	149	---	---	---
25	1,490	214	758	154	147	150	154	139	142	---	---	---
26	6,000	231	2,000	153	148	150	142	139	140	---	---	---
27	7,090	5,740	6,480	154	149	150	141	137	139	---	---	---
28	7,240	6,580	7,050	153	148	150	140	136	137	---	---	---
29	---	---	---	152	150	151	140	136	137	---	---	---
30	---	---	---	155	149	153	140	137	138	---	---	---
31	256	209	233	---	---	---	140	138	139	---	---	---
MONTH	---	---	---	8,300	145	1,930	218	136	156	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	115	113	114	112	111	111	89	86	87
2	---	---	---	115	111	113	---	---	---	90	89	89
3	---	---	---	113	109	110	111	109	110	91	89	90
4	---	---	---	112	107	109	110	108	109	91	89	90
5	---	---	---	111	108	110	111	108	109	91	90	90
6	---	---	---	110	105	108	---	---	---	91	90	91
7	---	---	---	121	104	106	---	---	---	92	91	91
8	---	---	---	108	103	106	---	---	---	94	92	93
9	---	---	---	111	107	109	106	102	104	99	93	94
10	---	---	---	113	108	110	---	---	---	96	94	95
11	---	---	---	111	108	109	---	---	---	97	95	96
12	---	---	---	111	108	110	97	95	95	100	97	98
13	---	---	---	112	102	108	96	95	96	101	99	100
14	183	137	150	117	101	108	95	94	95	103	97	100
15	154	141	147	114	110	112	94	93	94	99	98	98
16	194	135	150	117	113	115	94	93	94	99	93	96
17	176	129	137	117	113	115	96	93	94	97	91	92
18	141	125	133	117	115	116	95	93	94	93	91	92
19	136	119	125	117	105	111	94	92	93	93	91	92
20	139	121	128	121	112	116	93	91	92	94	91	92
21	124	114	120	125	115	117	92	89	91	96	93	94
22	125	117	121	116	114	115	92	90	91	98	95	96
23	130	116	119	118	114	116	90	85	87	107	93	100
24	143	116	120	118	105	115	86	85	85	106	92	95
25	130	118	121	118	114	116	89	84	86	101	92	96
26	118	114	116	118	116	117	89	87	88	96	93	94
27	118	115	116	122	111	116	89	87	88	99	92	94
28	116	112	113	117	111	114	89	85	87	94	91	93
29	---	---	---	112	110	111	86	86	86	97	94	95
30	---	---	---	112	108	110	87	86	86	96	94	95
31	---	---	---	112	107	110	---	---	---	96	94	95
MONTH	---	---	---	125	101	112	---	---	---	107	86	94

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	98	94	96	113	97	109	106	100	103	117	104	108
2	98	95	98	109	108	109	102	100	101	107	105	106
3	100	98	99	111	103	107	102	99	101	108	106	107
4	102	99	100	110	104	107	107	99	103	117	107	112
5	103	101	102	112	110	111	107	100	105	118	110	114
6	104	101	103	113	105	109	110	101	105	116	111	113
7	105	103	103	114	113	114	109	106	107	119	115	117
8	107	104	105	113	102	107	108	103	105	119	117	118
9	107	103	105	104	102	103	104	99	101	120	111	116
10	110	100	105	107	101	103	103	99	101	114	110	112
11	109	99	103	107	102	104	102	99	100	118	112	115
12	103	101	102	105	100	102	102	99	100	139	110	119
13	110	102	106	103	101	102	103	93	101	131	121	126
14	111	108	110	103	100	102	101	90	95	134	121	126
15	117	109	110	102	99	100	108	101	107	130	121	124
16	118	108	110	103	101	102	110	106	108	145	126	133
17	113	108	109	104	102	103	112	107	108	155	128	135
18	111	105	109	105	101	102	116	102	107	142	96	120
19	113	109	110	104	102	103	106	98	103	117	108	112
20	112	108	110	106	103	104	102	95	97	115	104	108
21	110	107	109	106	103	105	102	96	99	117	109	114
22	109	107	108	108	106	107	106	96	99	115	92	109
23	109	106	108	109	105	108	111	105	107	119	108	111
24	109	107	108	106	99	102	108	106	107	121	115	118
25	109	108	109	106	102	104	110	107	109	118	113	115
26	110	103	106	106	104	105	111	103	107	119	111	114
27	105	103	103	106	104	105	105	103	104	119	112	114
28	106	104	105	107	105	106	113	104	109	127	112	114
29	106	104	105	109	105	107	115	111	112	116	113	114
30	114	104	109	106	100	102	115	111	113	115	108	111
31	---	---	---	104	100	102	119	112	114	---	---	---
MONTH	118	94	106	114	97	105	119	90	104	155	92	116

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

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

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	JUNE			JULY			AUGUST			SEPTEMBER		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.5	6.6	6.7	6.6	6.7	6.5	6.5	6.5	6.6	6.6	6.6			
2	6.6	6.5	6.6	6.8	6.7	6.7	6.5	6.5	6.5	6.6	6.6	6.6			
3	6.6	6.6	6.6	6.8	6.7	6.7	6.5	6.5	6.5	6.7	6.6	6.6			
4	6.6	6.5	6.6	6.7	6.7	6.7	6.5	6.4	6.5	6.8	6.7	6.7			
5	6.6	6.5	6.5	6.7	6.7	6.7	6.5	6.4	6.5	6.8	6.6	6.7			
6	6.5	6.5	6.5	6.7	6.7	6.7	6.5	6.4	6.5	6.7	6.6	6.7			
7	6.6	6.5	6.6	6.7	6.7	6.7	6.5	6.4	6.5	6.7	6.6	6.7			
8	6.6	6.5	6.6	6.8	6.7	6.7	6.6	6.4	6.5	6.7	6.7	6.7			
9	6.6	6.5	6.5	6.8	6.8	6.8	6.6	6.5	6.6	6.8	6.7	6.7			
10	6.6	6.5	6.5	6.8	6.8	6.8	6.6	6.5	6.6	6.8	6.7	6.8			
11	6.6	6.5	6.5	6.8	6.7	6.7	6.6	6.5	6.6	6.8	6.7	6.8			
12	6.5	6.5	6.5	6.8	6.7	6.7	6.5	6.5	6.5	6.8	6.5	6.7			
13	6.6	6.4	6.4	6.7	6.7	6.7	6.6	6.5	6.5	6.6	6.6	6.6			
14	6.4	6.4	6.4	6.7	6.7	6.7	6.5	6.5	6.5	6.6	6.6	6.6			
15	6.4	6.4	6.4	6.7	6.7	6.7	6.6	6.3	6.4	6.6	6.6	6.6			
16	6.4	6.4	6.4	6.7	6.6	6.7	6.4	6.4	6.4	6.7	6.6	6.7			
17	6.5	6.4	6.5	6.7	6.7	6.7	6.4	6.4	6.4	6.8	6.7	6.7			
18	6.5	6.4	6.4	6.7	6.7	6.7	6.4	6.4	6.4	7.1	6.4	6.7			
19	6.5	6.4	6.5	6.7	6.7	6.7	6.4	6.4	6.4	6.6	6.4	6.5			
20	6.5	6.4	6.5	6.7	6.7	6.7	6.4	6.4	6.4	6.4	6.3	6.3			
21	6.5	6.4	6.5	6.7	6.7	6.7	6.4	6.4	6.4	6.4	6.3	6.4			
22	6.5	6.5	6.5	6.7	6.7	6.7	6.4	6.3	6.3	6.4	6.3	6.3			
23	6.5	6.5	6.5	6.7	6.5	6.6	6.4	6.3	6.4	6.3	6.3	6.3			
24	6.6	6.5	6.6	6.6	6.5	6.5	6.3	6.2	6.3	6.3	6.3	6.3			
25	6.6	6.6	6.6	6.5	6.5	6.5	6.3	6.2	6.3	6.4	6.3	6.3			
26	6.6	6.6	6.6	6.5	6.5	6.5	6.2	6.2	6.2	6.4	6.4	6.4			
27	6.6	6.6	6.6	6.5	6.5	6.5	6.2	6.2	6.2	6.5	6.4	6.4			
28	6.6	6.6	6.6	6.5	6.5	6.5	6.4	6.1	6.3	6.5	6.4	6.5			
29	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.4	6.4	6.5	6.5	6.5			
30	6.6	6.6	6.6	6.6	6.5	6.5	6.6	6.4	6.5	6.5	6.4	6.4			
31	---	---	---	6.5	6.5	6.5	6.6	6.6	6.6	---	---	---			
MONTH	6.6	6.4	6.5	6.8	6.5	6.7	6.6	6.1	6.4	7.1	6.3	6.6			

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

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



## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

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

## ROANOKE RIVER BASIN

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.6	25.2	25.4	16.3	15.6	15.8	9.3	8.9	9.2	8.2	7.2	7.8
2	26.6	25.4	25.7	16.0	15.1	15.6	8.9	8.6	8.8	8.5	8.2	8.4
3	26.1	25.5	25.8	15.8	15.0	15.3	8.8	8.4	8.6	8.6	8.3	8.5
4	27.4	25.6	26.2	15.7	15.1	15.4	8.4	7.8	8.1	8.6	8.1	8.5
5	26.9	25.5	25.9	15.4	14.9	15.1	7.8	7.2	7.4	8.1	7.2	7.7
6	26.7	24.9	25.6	15.2	14.6	15.1	7.3	6.8	7.1	7.2	6.9	7.1
7	25.7	25.4	25.5	14.6	13.9	14.3	7.1	6.8	7.0	6.9	6.0	6.6
8	25.5	24.4	24.9	14.2	13.4	13.8	6.9	6.6	6.8	6.0	5.7	5.9
9	24.5	24.2	24.3	14.4	13.3	13.8	6.7	6.2	6.5	6.6	5.9	6.3
10	24.2	23.3	23.9	15.2	13.9	14.5	6.4	6.2	6.3	7.3	6.6	7.0
11	24.1	23.2	23.8	15.8	14.9	15.4	6.5	6.2	6.3	7.1	6.6	7.0
12	24.2	23.8	24.0	16.2	15.4	15.7	7.1	6.3	6.5	6.6	5.9	6.2
13	24.2	23.6	23.8	15.6	14.5	15.1	6.8	6.4	6.6	5.9	5.4	5.6
14	23.7	22.6	23.1	14.9	14.1	14.4	7.2	6.5	6.8	5.6	5.1	5.4
15	22.6	19.7	21.9	15.0	14.4	14.6	7.3	6.9	7.1	5.6	5.2	5.4
16	21.5	19.4	20.8	15.1	14.8	15.0	7.8	7.2	7.5	5.4	4.9	5.2
17	21.7	20.7	21.1	15.0	13.9	14.4	7.5	7.2	7.3	5.2	4.8	5.0
18	21.0	20.0	20.5	14.1	13.4	13.7	7.4	7.0	7.2	5.0	4.5	4.7
19	20.6	19.7	20.2	13.9	13.3	13.5	7.9	7.2	7.5	4.5	4.0	4.2
20	20.5	19.6	20.0	13.5	13.1	13.3	8.6	7.9	8.3	4.3	3.8	4.1
21	20.1	19.2	19.7	13.2	12.7	13.0	8.6	8.2	8.3	4.4	4.0	4.1
22	19.4	18.5	18.8	13.3	12.7	13.1	8.3	7.8	8.0	4.0	3.7	3.9
23	18.8	18.3	18.5	13.2	12.5	12.7	8.0	7.8	7.9	4.0	2.9	3.5
24	18.6	18.0	18.3	12.9	12.5	12.7	7.9	7.7	7.8	3.1	2.5	2.9
25	18.5	18.0	18.2	12.8	12.6	12.7	7.8	7.2	7.6	3.1	2.7	2.9
26	18.6	18.1	18.4	12.7	12.1	12.3	7.2	6.7	6.9	3.0	2.9	2.9
27	18.4	17.9	18.2	12.1	11.3	11.7	6.7	6.3	6.5	3.0	2.8	2.9
28	18.4	18.2	18.3	11.3	10.4	10.8	6.3	5.9	6.1	3.2	2.6	2.9
29	18.2	17.7	18.0	10.4	9.4	9.8	6.1	5.7	5.9	3.2	2.8	2.9
30	18.1	17.0	17.6	9.5	9.1	9.3	6.4	5.8	6.1	3.1	2.9	3.0
31	17.0	15.8	16.4	---	---	---	7.2	6.4	6.8	3.2	3.0	3.1
MONTH	27.4	15.8	21.7	16.3	9.1	13.7	9.3	5.7	7.3	8.6	2.5	5.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.6	3.2	3.4	6.3	5.8	6.0	12.2	11.7	11.9	17.8	17.2	17.5
2	4.3	3.4	3.8	7.2	6.3	6.8	13.5	12.0	12.7	18.0	17.5	17.7
3	5.0	4.0	4.5	7.6	7.1	7.4	14.8	13.5	14.2	17.9	17.4	17.7
4	6.0	4.8	5.3	7.4	7.1	7.3	15.5	14.8	15.2	17.4	16.3	16.8
5	5.8	5.1	5.5	8.8	7.3	8.2	16.1	15.5	15.9	16.3	15.7	15.9
6	5.5	5.0	5.3	9.6	8.8	9.4	16.2	15.7	16.0	16.7	15.7	16.1
7	5.8	5.4	5.5	9.5	7.9	8.9	15.7	14.0	15.0	17.6	16.6	17.0
8	5.8	5.5	5.7	8.0	7.3	7.6	14.0	12.6	13.2	18.4	17.5	17.9
9	6.2	5.6	5.8	9.2	8.0	8.6	12.6	11.5	12.0	19.1	18.1	18.4
10	5.9	5.2	5.5	9.6	9.2	9.5	11.5	10.9	11.1	19.3	18.5	18.9
11	5.8	4.8	5.3	9.4	8.3	8.8	10.9	10.7	10.9	20.0	19.0	19.4
12	5.9	5.2	5.6	8.9	8.2	8.4	11.7	10.5	10.9	20.3	19.5	19.9
13	5.9	5.3	5.7	10.2	8.9	9.6	12.9	11.7	12.3	20.0	19.4	19.6
14	5.8	5.4	5.6	10.4	9.9	10.3	13.5	12.8	13.1	19.4	18.8	19.1
15	5.8	5.6	5.7	9.9	9.2	9.5	14.3	13.4	13.7	19.1	18.8	18.9
16	5.8	5.3	5.6	10.6	9.3	9.9	15.5	14.3	14.9	19.5	18.5	19.0
17	5.8	5.4	5.6	11.8	10.6	11.4	16.0	15.5	15.8	19.4	18.6	18.9
18	5.6	5.1	5.3	12.0	11.8	11.9	16.0	15.0	15.4	18.6	17.6	18.0
19	5.6	4.9	5.2	11.9	11.5	11.8	15.0	14.7	14.9	17.6	17.1	17.3
20	5.4	4.8	5.2	11.9	11.5	11.7	14.9	14.4	14.7	17.8	16.8	17.3
21	5.0	4.5	4.8	12.9	11.9	12.5	15.1	14.6	14.9	18.4	17.3	17.8
22	6.2	5.0	5.5	13.5	12.9	13.2	15.9	15.1	15.5	18.3	18.0	18.1
23	7.1	6.0	6.7	13.7	13.1	13.5	15.8	15.5	15.7	18.0	17.7	17.8
24	7.4	6.9	7.1	13.6	13.1	13.3	15.6	15.2	15.4	18.1	17.5	17.8
25	7.3	6.9	7.1	13.9	13.2	13.6	15.4	15.1	15.2	18.6	17.8	18.1
26	7.2	6.4	6.9	14.4	13.4	14.0	15.8	15.1	15.4	19.1	18.1	18.5
27	6.4	6.1	6.2	14.9	14.1	14.5	16.0	15.4	15.7	18.8	18.4	18.6
28	6.1	5.9	6.0	14.6	14.1	14.3	16.4	15.6	16.0	18.6	18.0	18.3
29	---	---	---	15.5	14.4	15.1	16.9	16.1	16.5	18.6	18.0	18.4
30	---	---	---	15.7	14.3	15.3	17.5	16.7	17.1	19.1	18.2	18.6
31	---	---	---	14.3	12.1	12.7	---	---	---	18.9	18.6	18.8
MONTH	7.4	3.2	5.5	15.7	5.8	10.8	17.5	10.5	14.4	20.3	15.7	18.1



## ROANOKE RIVER BASIN

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.4	24.3	24.6	16.6	15.5	15.9	9.3	8.9	9.1	8.2	7.3	7.8
2	24.4	24.2	24.3	16.3	15.4	15.7	8.9	8.6	8.7	8.6	8.2	8.5
3	24.3	24.2	24.3	15.7	15.4	15.6	8.8	8.3	8.6	8.7	8.4	8.6
4	24.4	24.2	24.3	15.5	14.1	14.4	8.4	7.8	8.1	8.7	8.2	8.6
5	24.5	24.3	24.4	15.2	14.2	14.5	7.8	7.1	7.4	8.2	7.3	7.8
6	25.4	24.4	24.9	15.2	14.5	14.9	7.2	6.8	7.1	7.3	7.0	7.2
7	25.1	25.0	25.0	14.9	14.6	14.8	7.1	6.8	6.9	7.0	6.1	6.7
8	25.2	24.9	25.1	14.9	13.7	14.5	6.8	6.6	6.7	6.1	5.8	6.0
9	25.1	23.6	24.7	13.8	13.5	13.7	6.6	6.2	6.4	6.7	6.0	6.4
10	23.6	22.7	22.9	13.9	13.6	13.7	6.4	6.1	6.3	7.4	6.7	7.1
11	22.8	22.6	22.7	14.9	13.9	14.3	6.4	6.2	6.2	7.2	6.7	7.1
12	23.2	22.6	22.7	15.4	14.7	14.9	6.6	6.2	6.4	6.7	6.0	6.4
13	23.7	22.8	23.2	15.5	14.6	15.2	6.7	6.4	6.5	6.0	5.6	5.8
14	23.2	22.5	22.9	14.8	14.2	14.5	7.1	6.5	6.8	5.7	5.3	5.5
15	22.6	19.8	21.7	15.2	14.5	14.7	7.2	6.8	7.0	5.8	5.3	5.6
16	21.4	19.4	20.8	15.3	15.0	15.2	7.8	7.1	7.4	5.5	5.1	5.3
17	21.3	20.0	20.7	15.2	14.1	14.6	7.5	7.1	7.3	5.3	4.9	5.1
18	20.0	19.8	19.8	14.1	13.6	13.8	7.3	7.0	7.1	5.0	4.5	4.7
19	19.8	19.6	19.7	14.0	13.3	13.6	7.8	7.1	7.4	4.5	4.0	4.2
20	19.7	19.4	19.6	13.7	13.2	13.3	8.5	7.8	8.2	4.3	3.8	4.1
21	19.8	19.3	19.5	13.2	12.6	12.9	8.5	8.1	8.3	4.4	4.0	4.1
22	19.8	19.7	19.8	13.3	12.6	13.1	8.2	7.8	8.0	4.0	3.6	3.9
23	19.8	18.4	19.0	13.1	12.3	12.7	8.1	7.7	7.9	4.0	3.0	3.5
24	18.8	18.2	18.5	12.8	12.4	12.6	8.0	7.8	7.9	3.1	2.5	2.8
25	18.8	18.1	18.3	12.8	12.6	12.7	7.9	7.4	7.7	3.0	2.7	2.9
26	18.5	17.6	18.1	12.6	12.0	12.2	7.4	6.8	7.1	3.0	2.9	2.9
27	17.7	17.6	17.6	12.0	11.2	11.6	6.8	6.4	6.6	3.0	2.8	2.9
28	17.7	17.6	17.6	11.2	10.3	10.7	6.4	6.0	6.2	3.2	2.6	2.9
29	---	---	---	10.3	9.3	9.8	6.2	5.8	6.0	3.2	2.8	2.9
30	---	---	---	9.5	9.1	9.3	6.5	6.0	6.2	3.1	2.8	3.0
31	17.2	15.8	16.4	---	---	---	7.3	6.5	6.9	3.2	3.0	3.1
MONTH	---	---	---	16.6	9.1	13.6	9.3	5.8	7.2	8.7	2.5	5.3
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.6	3.1	3.4	6.3	5.8	6.0	12.3	11.8	12.0	17.8	17.2	17.5
2	4.1	3.4	3.7	7.2	6.3	6.8	---	---	---	18.0	17.5	17.7
3	4.9	4.0	4.4	7.6	7.1	7.4	14.9	13.5	14.3	17.9	17.4	17.7
4	5.8	4.8	5.2	7.4	7.1	7.3	15.6	14.9	15.2	17.4	16.3	16.7
5	5.8	5.1	5.5	8.8	7.3	8.2	16.2	15.6	15.9	16.3	15.7	15.8
6	5.4	5.0	5.3	9.6	8.8	9.4	---	---	---	16.6	15.7	16.1
7	5.8	5.4	5.5	9.5	7.9	8.9	---	---	---	17.6	16.6	17.0
8	5.8	5.4	5.6	8.0	7.3	7.6	---	---	---	18.4	17.4	17.8
9	6.0	5.6	5.8	9.2	8.0	8.6	12.7	11.6	12.1	18.9	18.1	18.4
10	5.9	5.2	5.5	9.6	9.2	9.5	---	---	---	19.2	18.5	18.8
11	5.7	4.8	5.2	9.4	8.3	8.8	---	---	---	19.9	19.0	19.4
12	5.9	5.2	5.5	8.9	8.2	8.4	11.6	10.4	10.8	20.3	19.5	19.9
13	6.0	5.3	5.7	10.2	8.9	9.6	12.8	11.6	12.2	20.0	19.4	19.6
14	5.7	5.5	5.6	10.5	10.0	10.3	13.4	12.7	13.0	19.4	18.8	19.1
15	5.8	5.6	5.7	10.0	9.3	9.6	14.3	13.3	13.7	19.0	18.8	18.9
16	5.8	5.5	5.6	10.7	9.4	9.9	15.4	14.3	14.8	19.4	18.5	18.9
17	5.8	5.4	5.6	11.8	10.7	11.5	15.9	15.4	15.7	19.3	18.6	18.9
18	5.5	5.1	5.3	12.1	11.8	12.0	15.9	14.9	15.4	18.6	17.6	18.0
19	5.4	4.9	5.2	12.0	11.6	11.9	14.9	14.6	14.8	17.6	17.1	17.3
20	5.3	4.8	5.2	12.0	11.6	11.7	14.8	14.3	14.6	17.7	16.8	17.2
21	5.0	4.5	4.8	13.0	12.0	12.5	15.1	14.6	14.8	18.2	17.3	17.7
22	6.0	5.0	5.4	13.5	12.9	13.2	15.8	15.1	15.4	18.2	18.0	18.1
23	7.1	6.0	6.6	13.7	13.1	13.5	15.8	15.4	15.6	18.0	17.7	17.8
24	7.3	6.9	7.1	13.6	13.1	13.4	15.6	15.1	15.3	18.0	17.5	17.7
25	7.3	6.8	7.1	13.8	13.3	13.6	15.3	15.0	15.1	18.4	17.8	18.0
26	7.2	6.4	6.8	14.3	13.4	14.1	15.7	15.0	15.4	18.8	18.1	18.4
27	6.4	6.1	6.2	14.8	14.2	14.5	15.9	15.4	15.6	18.8	18.4	18.6
28	6.1	5.9	6.0	14.5	14.2	14.3	16.3	15.5	15.9	18.5	18.0	18.3
29	---	---	---	15.4	14.5	15.1	16.8	16.0	16.4	18.6	18.0	18.3
30	---	---	---	15.7	14.3	15.3	17.5	16.7	17.1	19.0	18.2	18.6
31	---	---	---	14.3	12.2	12.8	---	---	---	18.9	18.6	18.7
MONTH	7.3	3.1	5.5	15.7	5.8	10.8	---	---	---	20.3	15.7	18.1

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.4	18.7	24.5	24.0	24.2	26.1	25.5	25.8	27.7	27.3	27.5
2	19.1	18.5	18.8	24.0	23.5	23.8	26.4	25.6	26.0	27.8	27.3	27.6
3	19.1	18.5	18.8	23.9	23.3	23.6	26.2	25.8	26.0	27.9	27.4	27.6
4	19.6	19.0	19.2	24.2	23.4	23.8	26.0	25.7	25.9	27.7	27.4	27.5
5	20.5	19.6	20.0	24.8	23.7	24.2	26.1	25.5	25.8	27.5	26.6	27.1
6	20.6	20.1	20.3	25.2	24.2	24.7	26.0	25.5	25.7	26.6	25.5	26.0
7	20.6	20.1	20.4	25.4	24.6	25.0	25.6	25.3	25.4	25.5	25.1	25.3
8	21.1	20.5	20.7	25.5	24.8	25.1	25.4	25.2	25.3	25.2	24.8	25.0
9	22.0	21.0	21.5	26.1	25.0	25.5	25.3	25.0	25.1	25.2	24.8	25.0
10	22.4	21.6	22.0	26.1	25.4	25.8	25.2	25.0	25.1	25.1	24.3	24.6
11	22.9	22.0	22.4	25.9	25.3	25.6	25.4	24.9	25.2	24.4	23.7	24.0
12	23.4	22.5	22.9	25.8	25.2	25.5	25.6	25.1	25.4	24.1	23.7	23.8
13	23.8	23.0	23.4	25.6	25.0	25.2	25.8	25.3	25.6	23.8	23.6	23.8
14	24.0	23.3	23.7	25.0	24.4	24.6	26.0	25.4	25.7	24.1	23.6	23.9
15	24.2	23.6	23.9	25.0	24.1	24.6	26.4	25.6	26.0	24.2	23.9	24.1
16	24.2	23.7	23.9	25.4	24.5	25.0	26.3	26.0	26.1	24.5	24.1	24.3
17	23.7	23.0	23.2	25.4	24.9	25.1	26.1	25.6	25.9	24.2	23.6	23.8
18	23.5	22.7	23.1	25.2	24.8	25.0	26.1	25.6	25.9	23.8	22.6	23.1
19	23.8	23.1	23.5	25.1	24.8	24.9	25.9	25.6	25.8	23.2	22.4	22.8
20	23.7	23.2	23.4	25.1	24.6	24.9	26.0	25.4	25.7	23.6	22.9	23.3
21	23.2	22.6	22.9	25.4	24.6	25.0	26.4	25.6	26.0	23.8	23.2	23.5
22	22.6	21.7	22.0	25.8	25.0	25.4	26.7	26.0	26.4	23.6	23.2	23.4
23	22.2	21.3	21.7	25.7	25.2	25.4	26.7	26.2	26.5	23.7	23.3	23.4
24	22.6	21.7	22.1	25.2	24.6	24.8	26.6	26.1	26.4	23.6	23.2	23.4
25	23.1	22.1	22.6	25.1	24.6	24.8	26.3	25.6	25.8	23.4	22.9	23.1
26	23.6	22.6	23.1	25.3	24.7	25.0	26.2	25.4	25.8	23.5	22.9	23.2
27	24.1	23.1	23.6	25.8	24.8	25.3	26.7	25.9	26.3	23.7	23.1	23.4
28	24.1	23.6	23.9	26.1	25.2	25.7	27.1	26.4	26.8	23.6	23.3	23.5
29	24.2	23.5	23.8	26.3	25.6	25.9	27.4	26.8	27.1	23.5	22.5	23.1
30	24.7	23.7	24.2	26.1	25.6	25.8	27.6	27.0	27.3	22.5	21.2	21.8
31	---	---	---	26.0	25.5	25.7	27.8	27.3	27.6	---	---	---
MONTH	24.7	18.4	22.1	26.3	23.3	25.0	27.8	24.9	26.0	27.9	21.2	24.4

## ROANOKE RIVER BASIN

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.3	4.3	4.7	7.1	6.7	6.9	8.1	7.6	7.9	9.0	8.7	8.9
2	5.3	4.2	4.8	7.4	6.9	7.1	8.4	7.8	8.1	8.7	8.4	8.5
3	5.1	3.6	4.6	7.5	7.1	7.2	9.0	8.1	8.5	8.4	8.0	8.1
4	8.1	3.6	5.4	7.5	7.2	7.3	9.2	8.6	8.8	8.1	8.0	8.0
5	6.8	4.8	5.7	7.9	7.3	7.6	9.8	8.9	9.5	8.4	8.0	8.3
6	7.1	2.8	5.8	8.2	7.8	8.0	10.1	9.5	9.8	8.5	8.3	8.4
7	6.1	5.0	5.5	8.3	7.8	8.0	10.2	9.6	9.9	8.8	8.4	8.5
8	6.6	2.2	4.7	8.2	8.0	8.1	10.2	9.6	9.9	9.0	8.8	8.9
9	6.5	5.3	5.7	8.3	7.8	8.1	10.0	9.4	9.7	8.9	8.7	8.8
10	5.8	5.0	5.4	8.4	8.0	8.2	9.8	9.0	9.4	8.7	8.6	8.6
11	5.7	4.8	5.3	8.3	8.0	8.2	9.5	8.7	9.1	8.7	8.5	8.6
12	5.6	4.3	5.0	8.1	7.5	7.8	9.4	8.8	9.1	9.2	8.7	8.9
13	5.5	4.3	4.9	8.0	7.3	7.7	9.7	8.8	9.3	9.4	9.1	9.3
14	5.7	4.3	5.2	7.6	7.0	7.3	9.8	9.1	9.5	9.7	9.4	9.6
15	7.6	4.5	5.2	7.2	6.4	6.8	10.1	9.4	9.8	9.9	9.7	9.8
16	7.5	4.0	5.4	7.3	6.5	6.9	10.4	9.5	9.8	10.0	9.8	9.9
17	4.5	3.9	4.2	7.4	7.0	7.2	10.5	9.8	10.1	10.2	9.7	10
18	4.6	4.0	4.3	7.3	7.0	7.2	11.1	10.1	10.5	10.0	9.7	9.9
19	4.9	4.1	4.5	7.2	6.9	7.0	11.0	10.3	10.7	10.3	10.0	10.2
20	4.8	3.6	4.1	7.4	6.9	7.1	10.8	10.2	10.5	10.5	10.3	10.4
21	4.8	3.4	4.2	8.4	7.3	7.6	10.7	9.9	10.3	10.7	10.3	10.5
22	4.9	3.7	4.4	8.1	7.5	7.7	10.5	9.9	10.2	10.9	10.6	10.7
23	5.0	4.7	4.9	8.2	7.8	8.0	10.2	9.2	9.7	11.1	10.8	11.0
24	6.0	4.6	5.2	8.1	7.8	8.0	9.2	8.9	9.0	11.3	10.9	11.2
25	6.0	5.4	5.7	8.3	7.9	8.1	8.9	8.7	8.8	11.4	11.1	11.3
26	6.2	5.8	6.0	8.2	7.8	8.0	8.8	8.6	8.6	11.6	11.3	11.4
27	6.4	5.9	6.1	8.2	7.6	7.9	8.8	8.5	8.6	11.9	11.5	11.6
28	6.4	6.0	6.2	8.2	7.5	7.8	9.1	8.8	8.8	11.9	11.6	11.7
29	6.7	6.3	6.5	7.7	7.3	7.5	9.3	9.0	9.2	11.8	11.6	11.7
30	6.7	6.4	6.5	7.8	7.3	7.6	9.4	9.2	9.3	11.8	11.6	11.7
31	7.1	6.7	6.9	---	---	---	9.3	9.0	9.1	11.7	11.4	11.6
MONTH	8.1	2.2	5.3	8.4	6.4	7.6	11.1	7.6	9.4	11.9	8.0	9.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.9	11.5	11.7	11.0	10.9	10.9	7.8	7.1	7.3	5.7	5.2	5.4
2	12.0	11.7	11.8	11.0	10.5	10.8	7.9	7.1	7.5	5.6	4.8	5.1
3	11.9	11.7	11.8	10.5	10.2	10.3	7.6	6.6	7.0	6.5	4.9	5.2
4	11.8	11.4	11.6	10.5	10.2	10.3	7.2	6.2	6.6	5.8	4.9	5.4
5	11.6	10.9	11.4	10.4	9.8	10.1	7.0	5.9	6.3	6.0	5.4	5.6
6	11.4	10.8	11.1	10.0	9.2	9.6	6.5	5.6	5.9	6.2	5.4	5.8
7	11.3	11.1	11.2	9.6	8.8	9.2	6.2	5.2	5.7	6.0	5.2	5.6
8	11.6	11.2	11.3	9.8	8.9	9.3	5.7	5.3	5.4	6.0	5.2	5.6
9	11.7	11.3	11.5	9.8	9.4	9.6	6.6	5.6	6.1	6.0	5.4	5.6
10	12.0	11.4	11.7	9.7	9.2	9.5	7.2	6.5	6.9	6.9	5.0	5.4
11	12.3	11.8	11.9	9.7	9.3	9.5	6.6	6.3	6.5	10.6	4.5	6.4
12	12.0	11.7	11.9	9.8	9.3	9.5	7.0	6.4	6.6	4.6	4.3	4.4
13	11.9	11.4	11.7	9.9	9.3	9.6	7.0	6.4	6.7	5.1	4.1	4.5
14	11.6	11.1	11.4	9.8	9.0	9.4	6.8	6.3	6.5	4.9	4.2	4.5
15	11.6	11.3	11.4	9.6	9.0	9.3	6.6	6.1	6.3	4.9	4.4	4.6
16	11.8	11.3	11.6	9.8	9.1	9.4	6.5	5.8	6.1	4.8	4.4	4.6
17	11.7	11.5	11.6	9.6	8.6	9.1	6.2	5.6	5.9	5.0	4.4	4.7
18	11.7	11.4	11.5	9.2	8.2	8.7	6.2	5.5	5.8	5.1	4.8	4.9
19	11.9	11.5	11.7	9.0	8.5	8.7	5.8	5.5	5.7	5.2	4.6	4.9
20	12.1	11.7	11.9	9.1	8.1	8.6	6.1	5.6	5.8	5.2	4.5	4.9
21	12.5	12.1	12.4	8.2	7.2	7.8	6.2	5.7	5.9	5.0	4.5	4.8
22	12.6	12.4	12.5	7.4	7.0	7.3	6.1	5.5	5.7	5.1	4.6	4.9
23	12.5	11.7	12.0	7.9	7.4	7.7	6.0	5.5	5.7	6.2	4.8	5.8
24	11.8	11.2	11.5	8.1	7.6	7.9	6.0	5.5	5.8	6.2	5.3	5.8
25	11.7	11.3	11.5	8.3	7.7	8.0	6.1	5.6	5.8	5.5	5.1	5.3
26	11.4	11.0	11.2	8.5	7.6	8.0	5.8	5.2	5.5	5.3	4.9	5.1
27	11.2	11.0	11.1	8.5	7.5	8.0	5.6	5.2	5.4	5.2	4.6	4.9
28	11.1	10.8	11.0	8.0	7.3	7.6	5.7	5.3	5.5	4.8	4.4	4.6
29	---	---	---	7.9	7.0	7.4	5.8	5.3	5.5	5.0	4.6	4.8
30	---	---	---	7.4	6.0	6.9	5.8	5.3	5.6	5.0	4.6	4.8
31	---	---	---	7.2	5.7	6.2	---	---	---	5.0	4.6	4.8
MONTH	12.6	10.8	11.6	11.0	5.7	8.8	7.9	5.2	6.1	10.6	4.1	5.1

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.2	4.7	5.0	4.0	3.6	3.8	2.8	2.7	2.8	2.5	2.2	2.4
2	5.2	4.9	5.0	4.3	3.6	3.9	2.9	2.7	2.8	2.6	2.2	2.4
3	5.4	5.1	5.2	4.3	3.8	4.0	2.8	2.6	2.7	2.8	2.4	2.6
4	5.3	4.9	5.1	4.0	3.7	3.8	2.8	2.4	2.6	3.1	2.6	2.8
5	5.1	4.6	4.8	3.9	3.6	3.8	2.8	2.5	2.6	3.8	3.0	3.4
6	4.8	4.5	4.6	3.8	3.6	3.7	2.7	2.6	2.6	3.5	2.8	3.0
7	4.9	4.7	4.8	3.7	3.4	3.6	3.0	2.6	2.8	3.8	2.9	3.3
8	5.0	4.5	4.8	3.7	3.4	3.6	3.1	2.8	2.9	3.9	3.6	3.7
9	4.7	4.3	4.5	3.7	3.4	3.6	3.2	2.8	2.9	4.5	3.8	4.1
10	4.6	4.2	4.4	3.7	3.4	3.5	2.9	2.5	2.7	4.5	4.2	4.4
11	4.6	4.3	4.5	3.7	3.4	3.5	3.1	2.4	2.7	4.6	4.4	4.5
12	4.5	4.1	4.3	3.8	3.2	3.5	2.5	2.2	2.4	5.0	4.6	4.8
13	4.2	3.9	4.1	3.4	3.1	3.2	3.0	2.3	2.5	4.8	4.3	4.6
14	4.1	3.8	4.0	3.5	3.1	3.3	2.8	2.5	2.6	4.5	4.2	4.3
15	4.0	3.7	3.8	---	---	---	3.0	2.5	2.6	4.4	4.0	4.2
16	4.1	3.7	3.8	---	---	---	2.8	2.6	2.6	4.8	4.1	4.5
17	4.1	3.5	3.8	---	---	---	2.9	2.6	2.7	5.2	4.6	4.9
18	3.8	3.4	3.6	---	---	---	2.7	2.4	2.5	6.9	4.1	5.3
19	3.8	3.6	3.7	---	---	---	3.0	2.3	2.5	4.1	2.6	3.3
20	3.8	3.4	3.6	---	---	---	2.8	2.4	2.6	2.6	0.2	1.4
21	4.0	3.5	3.8	---	---	---	2.5	2.3	2.4	0.2	0.2	0.2
22	4.4	4.0	4.1	---	---	---	2.6	2.4	2.5	0.2	0.2	0.2
23	4.6	4.3	4.4	---	---	---	2.7	2.3	2.5	0.2	0.2	0.2
24	4.6	4.3	4.4	3.5	2.9	3.2	2.8	2.3	2.5	0.2	0.2	0.2
25	4.6	4.4	4.5	3.0	2.7	2.9	2.9	2.5	2.6	0.2	0.2	0.2
26	4.6	4.3	4.4	3.4	2.8	3.1	2.9	2.6	2.7	0.2	0.2	0.2
27	4.5	4.2	4.3	3.4	3.1	3.2	2.6	2.4	2.5	0.2	0.2	0.2
28	4.4	4.1	4.2	3.4	3.2	3.3	2.5	2.2	2.3	0.2	0.2	0.2
29	4.1	3.6	3.9	3.5	3.0	3.2	2.6	2.2	2.3	0.2	0.2	0.2
30	4.0	3.8	3.9	3.5	2.8	3.1	2.7	2.2	2.4	0.3	0.2	0.2
31	---	---	---	3.0	2.7	2.8	2.7	2.2	2.3	---	---	---
MONTH	5.4	3.4	4.3	---	---	---	3.2	2.2	2.6	6.9	0.2	2.5

## ROANOKE RIVER BASIN

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.4	3.5	4.6	6.9	5.1	6.4	7.2	6.7	7.0	8.9	8.6	8.8
2	5.6	4.5	5.1	7.5	5.8	6.9	7.4	7.0	7.2	8.6	8.3	8.4
3	5.5	4.4	4.8	7.1	6.6	6.8	8.1	7.3	7.6	8.4	8.0	8.1
4	4.5	3.9	4.3	7.9	6.6	7.6	8.4	7.7	8.0	8.1	7.9	7.9
5	3.9	3.0	3.5	7.8	6.9	7.4	9.0	8.2	8.7	8.1	7.9	8.1
6	3.5	2.4	2.9	7.6	6.7	7.2	9.3	8.9	9.1	8.3	8.1	8.2
7	2.7	1.6	2.2	7.5	6.6	7.0	9.4	9.0	9.3	8.6	8.2	8.3
8	4.5	1.5	2.9	8.6	6.3	7.2	9.6	9.0	9.3	8.9	8.6	8.8
9	5.4	3.2	3.9	8.8	8.3	8.6	9.3	8.8	9.1	8.9	8.7	8.8
10	6.3	5.3	5.9	8.7	8.0	8.4	9.2	8.5	8.9	8.8	8.5	8.6
11	6.2	5.8	6.0	8.2	7.6	7.9	8.9	8.2	8.5	8.8	8.4	8.6
12	6.0	5.0	5.6	7.8	7.1	7.4	8.9	8.3	8.6	9.1	8.7	8.9
13	5.2	3.4	4.6	7.5	6.8	7.1	9.2	8.4	8.8	9.4	9.0	9.2
14	5.8	4.5	5.1	7.4	6.6	7.0	9.4	8.8	9.1	9.6	9.3	9.5
15	7.7	5.0	5.7	6.9	6.1	6.4	9.8	9.1	9.5	9.8	9.5	9.6
16	7.8	4.1	5.5	7.0	6.1	6.5	10.0	9.4	9.6	10.1	9.8	9.9
17	5.2	4.2	4.5	7.2	6.6	6.9	10.2	9.7	9.9	10.4	10.1	10.2
18	5.5	5.0	5.2	7.0	6.6	6.8	10.6	9.9	10.2	10.5	10.2	10.4
19	5.1	4.5	4.8	6.8	6.3	6.6	10.6	10.1	10.3	10.8	10.5	10.6
20	6.3	4.2	4.9	6.6	5.9	6.2	10.3	9.8	10.1	10.9	10.7	10.8
21	6.4	4.3	5.7	6.7	6.0	6.4	10.1	9.5	9.8	11.0	10.8	10.9
22	5.0	3.8	4.4	7.0	6.5	6.7	9.8	9.3	9.5	11.2	10.9	11.1
23	6.8	4.3	5.8	7.2	6.9	7.0	9.5	9.0	9.3	11.4	11.2	11.3
24	6.8	5.0	6.1	7.1	6.9	7.0	9.1	8.8	8.9	11.7	11.3	11.5
25	6.1	5.1	5.6	7.3	7.0	7.2	8.8	8.6	8.7	11.6	11.5	11.6
26	7.6	5.1	6.4	7.4	6.9	7.2	8.7	8.4	8.6	11.9	11.6	11.8
27	7.4	6.4	7.0	7.3	6.8	7.1	8.8	8.6	8.6	12.0	11.8	11.9
28	6.6	5.9	6.3	7.3	6.6	7.0	9.0	8.7	8.8	12.1	11.9	12.0
29	---	---	---	6.8	6.5	6.6	9.3	9.0	9.1	12.1	11.9	11.9
30	---	---	---	6.8	6.4	6.7	9.3	9.2	9.2	12.0	11.8	11.9
31	7.0	6.4	6.7	---	---	---	9.2	8.9	9.1	11.8	11.7	11.7
MONTH	---	---	---	8.8	5.1	7.0	10.6	6.7	9.0	12.1	7.9	10.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.0	11.7	11.9	10.8	10.5	10.6	8.1	7.5	7.7	6.2	5.9	6.0
2	12.0	11.8	11.9	10.7	10.2	10.6	---	---	---	6.2	5.5	5.8
3	11.9	11.6	11.7	10.4	9.9	10.1	7.9	7.0	7.3	5.8	5.4	5.6
4	11.8	11.4	11.5	10.3	9.9	10.1	7.5	6.6	6.9	5.8	5.4	5.6
5	11.6	10.9	11.4	10.2	9.5	9.9	7.2	6.2	6.6	6.0	5.6	5.8
6	11.5	10.9	11.2	9.9	9.1	9.5	---	---	---	6.0	5.8	5.9
7	11.3	11.0	11.2	9.5	8.4	9.0	---	---	---	5.8	5.4	5.6
8	11.4	11.0	11.2	9.5	8.5	8.9	---	---	---	5.7	5.2	5.4
9	11.4	11.2	11.3	9.6	9.1	9.3	6.7	5.9	6.3	5.4	5.0	5.2
10	11.8	11.2	11.5	9.6	9.0	9.3	---	---	---	5.4	4.9	5.0
11	11.8	11.5	11.7	9.6	9.1	9.4	---	---	---	4.9	4.6	4.8
12	11.7	11.4	11.6	9.7	9.1	9.3	7.0	6.7	6.9	4.7	4.5	4.6
13	11.7	11.2	11.5	10.0	9.3	9.6	7.1	6.5	6.8	4.8	4.4	4.6
14	11.3	10.8	11.0	10.0	9.3	9.7	6.8	6.3	6.5	4.8	4.6	4.7
15	11.5	11.0	11.2	9.7	9.3	9.5	6.7	6.1	6.3	4.8	4.7	4.7
16	11.6	11.1	11.4	9.9	9.3	9.6	6.4	5.8	6.0	4.8	4.6	4.7
17	11.5	11.2	11.4	9.7	8.8	9.2	6.2	5.5	5.8	5.0	4.7	4.9
18	11.3	11.0	11.2	9.4	8.5	8.9	6.0	5.3	5.6	5.0	4.8	4.9
19	11.6	11.2	11.4	9.2	8.7	8.9	5.6	5.3	5.5	5.4	5.0	5.2
20	11.9	11.6	11.7	9.2	8.3	8.8	---	---	---	5.4	5.0	5.2
21	12.4	11.9	12.2	8.4	7.5	8.0	---	---	---	5.3	5.1	5.2
22	12.5	12.2	12.3	7.6	7.3	7.5	---	---	---	5.4	5.1	5.3
23	12.5	11.6	12.0	8.1	7.6	7.9	---	---	---	6.1	5.4	5.8
24	11.8	11.1	11.5	8.3	7.9	8.1	---	---	---	6.2	5.2	5.8
25	11.7	11.2	11.4	8.6	8.1	8.3	---	---	---	5.4	5.1	5.2
26	11.3	10.8	11.0	8.7	7.9	8.3	---	---	---	5.3	4.8	5.0
27	11.0	10.8	10.9	8.7	7.8	8.2	---	---	---	5.0	4.4	4.8
28	10.9	10.6	10.7	8.3	7.6	7.9	---	---	---	4.7	4.2	4.4
29	---	---	---	8.2	7.3	7.7	---	---	---	4.8	4.5	4.7
30	---	---	---	7.7	6.3	7.2	---	---	---	4.8	4.5	4.6
31	---	---	---	7.5	6.1	6.5	---	---	---	5.0	4.5	4.8
MONTH	12.5	10.6	11.5	10.8	6.1	8.9	---	---	---	6.2	4.2	5.2



## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.2	4.6	5.0	3.9	3.4	3.6	3.3	3.1	3.2	2.7	2.4	2.6
2	5.2	4.9	5.1	4.3	3.4	3.7	3.2	3.1	3.1	2.8	2.5	2.6
3	5.3	5.0	5.2	4.3	3.6	3.9	3.2	3.0	3.1	2.9	2.6	2.7
4	5.3	4.7	5.0	4.1	3.6	3.9	3.2	2.9	3.0	3.3	2.8	3.0
5	5.1	4.5	4.7	---	---	---	3.1	2.9	3.0	3.6	3.2	3.4
6	4.7	4.3	4.5	---	---	---	3.1	2.9	3.0	3.4	2.8	3.0
7	4.9	4.5	4.7	---	---	---	3.2	2.9	3.1	3.6	3.0	3.2
8	5.0	4.3	4.6	---	---	---	3.4	2.8	3.1	3.9	3.5	3.6
9	4.6	4.1	4.3	---	---	---	3.2	2.7	2.9	4.4	3.8	4.1
10	4.4	3.9	4.2	---	---	---	2.9	2.5	2.7	4.6	4.2	4.4
11	4.3	3.9	4.2	---	---	---	3.1	2.4	2.7	4.6	4.3	4.5
12	4.2	3.9	4.0	4.0	3.5	3.8	2.6	2.3	2.4	5.5	4.6	4.9
13	4.2	3.8	4.0	3.7	3.4	3.5	3.1	2.3	2.5	5.0	4.5	4.8
14	4.2	3.8	4.0	3.8	3.5	3.6	2.9	2.5	2.7	4.6	4.4	4.6
15	4.0	3.6	3.8	3.6	3.5	3.6	2.9	2.5	2.7	4.6	4.2	4.4
16	4.1	3.6	3.8	3.6	3.4	3.5	3.0	2.8	2.9	5.0	4.4	4.7
17	4.1	3.5	3.8	3.6	3.4	3.5	3.0	2.8	2.8	5.5	5.0	5.2
18	3.8	3.4	3.6	3.7	3.3	3.5	2.9	2.6	2.7	7.1	4.3	5.6
19	3.8	3.4	3.6	3.6	3.4	3.4	2.8	2.4	2.6	4.3	2.8	3.5
20	3.8	3.1	3.4	3.5	3.4	3.4	2.7	2.5	2.6	2.8	0.2	1.6
21	3.8	3.3	3.6	3.6	3.3	3.4	2.5	2.4	2.5	0.2	0.2	0.2
22	4.2	3.6	3.9	3.6	3.5	3.5	2.4	2.2	2.4	0.3	0.2	0.2
23	4.4	3.8	4.1	3.9	3.3	3.5	2.5	2.2	2.4	0.3	0.3	0.3
24	4.4	3.9	4.1	4.0	3.5	3.8	2.5	2.2	2.4	0.3	0.3	0.3
25	4.7	4.0	4.4	3.6	3.4	3.5	2.7	2.4	2.5	0.3	0.2	0.3
26	4.7	4.3	4.5	3.8	3.4	3.6	2.7	2.5	2.6	0.3	0.2	0.3
27	4.7	4.2	4.4	3.8	3.6	3.7	2.6	2.4	2.5	0.3	0.2	0.3
28	4.5	4.0	4.2	3.8	3.6	3.7	2.6	2.4	2.5	0.3	0.2	0.3
29	4.1	3.4	3.8	3.8	3.4	3.6	2.7	2.4	2.5	0.4	0.2	0.3
30	3.9	3.0	3.5	3.8	3.0	3.3	2.8	2.4	2.6	0.4	0.3	0.4
31	---	---	---	3.3	3.1	3.2	2.9	2.4	2.6	---	---	---
MONTH	5.3	3.0	4.2	---	---	---	3.4	2.2	2.7	7.1	0.2	2.6

## ROANOKE RIVER BASIN

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	65	53	57	73	67	70	71	66	69	75	74	75
2	66	52	59	75	69	71	72	67	70	74	72	73
3	63	44	56	76	71	73	77	69	73	72	69	70
4	103	44	67	76	72	74	78	73	75	70	68	69
5	85	59	71	79	73	76	82	75	79	70	68	70
6	87	34	71	82	78	80	84	79	81	70	69	70
7	75	61	68	81	76	79	84	79	82	71	69	70
8	80	27	57	80	77	78	84	78	81	72	71	71
9	78	63	68	81	76	79	82	77	79	72	71	72
10	69	60	64	84	78	81	79	73	76	72	71	71
11	68	57	63	83	81	82	77	71	74	72	70	71
12	67	51	60	83	75	79	77	72	74	74	71	72
13	65	51	58	80	72	76	79	72	76	75	73	74
14	67	51	60	75	69	72	81	74	78	77	75	76
15	83	52	59	71	63	67	84	78	81	79	77	78
16	82	45	60	73	65	69	87	80	82	79	77	78
17	51	44	47	73	69	70	87	82	84	80	76	78
18	51	44	48	71	67	70	92	83	87	78	76	77
19	54	45	50	69	66	67	91	86	89	79	77	78
20	53	40	45	71	66	68	92	87	90	81	78	80
21	53	38	46	80	69	73	92	84	88	82	79	80
22	53	40	47	77	71	74	89	83	86	83	80	82
23	54	50	52	78	74	76	86	78	82	84	81	83
24	64	49	55	77	74	75	78	75	76	84	81	83
25	64	57	61	79	75	77	75	73	73	85	82	84
26	66	62	64	77	73	75	73	70	71	86	84	85
27	68	62	65	76	70	73	72	69	70	88	85	86
28	68	64	66	75	67	71	73	71	71	89	85	87
29	71	67	69	69	64	66	75	72	74	88	86	87
30	70	67	68	68	64	66	76	74	75	88	86	87
31	72	69	71	---	---	---	76	74	75	88	85	86
MONTH	103	27	60	84	63	74	92	66	78	89	68	78
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	90	86	88	89	87	88	73	66	68	60	55	57
2	92	88	90	90	87	88	74	67	70	59	51	54
3	93	90	91	88	85	86	73	65	68	68	51	55
4	93	91	92	88	85	86	72	62	66	60	51	56
5	92	87	91	88	84	86	70	60	64	61	55	57
6	90	86	88	87	81	84	66	57	60	63	56	60
7	90	88	89	84	75	80	63	51	57	62	54	58
8	93	89	90	83	75	78	54	51	52	64	56	59
9	95	90	92	84	81	83	61	53	57	64	58	60
10	95	91	93	85	81	83	66	59	63	75	54	58
11	99	92	94	84	79	82	60	57	59	115	50	70
12	96	93	94	85	79	81	65	58	60	51	47	49
13	96	91	94	87	82	84	65	60	63	56	45	49
14	92	89	91	88	80	84	65	60	62	53	45	49
15	93	90	91	84	79	81	64	59	61	53	47	50
16	94	90	92	86	81	83	64	58	61	52	47	49
17	93	91	92	88	79	83	63	57	60	54	47	50
18	93	90	91	86	76	80	63	55	58	54	51	52
19	95	90	92	83	78	81	58	55	56	54	48	51
20	95	93	94	84	75	79	60	55	57	54	47	51
21	98	94	96	76	68	73	61	56	58	53	48	51
22	101	97	99	71	67	69	61	55	58	54	49	52
23	101	97	98	76	71	74	61	55	58	65	51	61
24	98	92	95	78	73	76	60	55	58	65	56	61
25	97	93	95	80	74	77	61	56	58	59	54	56
26	95	89	92	82	74	78	58	52	55	56	53	55
27	91	89	90	84	73	78	57	52	54	56	49	53
28	90	87	88	78	71	74	58	54	55	51	47	49
29	---	---	---	79	70	74	59	54	57	53	49	51
30	---	---	---	75	59	69	61	55	58	54	49	51
31	---	---	---	67	54	58	---	---	---	54	49	52
MONTH	101	86	92	90	54	79	74	51	60	115	45	54

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	56	50	53	48	43	45	35	33	34	32	28	30
2	56	52	54	51	43	46	36	33	35	33	28	31
3	58	55	56	51	45	47	35	32	33	36	30	33
4	57	54	55	47	44	45	35	30	32	40	33	36
5	56	51	53	47	43	45	35	31	33	48	38	43
6	53	50	51	46	43	44	33	32	32	44	35	37
7	55	52	53	45	41	43	37	32	34	47	36	41
8	56	51	54	45	41	43	38	34	36	47	44	45
9	53	49	51	45	42	44	39	34	36	55	46	50
10	53	48	51	46	42	43	35	30	33	55	51	53
11	54	50	52	46	42	43	38	29	33	55	52	54
12	52	48	50	47	39	43	31	27	29	59	55	57
13	50	46	48	42	38	39	37	28	31	57	51	55
14	49	45	47	42	37	40	34	31	32	54	50	52
15	48	44	46	---	---	---	37	31	32	53	48	50
16	49	44	46	---	---	---	35	32	32	58	49	53
17	49	41	45	---	---	---	36	32	33	62	55	58
18	45	40	42	---	---	---	33	30	31	80	48	63
19	45	42	44	---	---	---	37	28	31	48	31	38
20	45	40	42	---	---	---	35	29	32	31	2	16
21	47	41	44	---	---	---	31	28	30	2	2	2
22	50	46	47	---	---	---	33	30	31	2	2	2
23	53	49	50	---	---	---	34	29	31	2	2	2
24	53	49	51	42	35	39	35	28	31	2	2	2
25	54	51	52	37	33	35	36	31	32	2	2	2
26	53	51	52	42	34	38	36	32	33	2	2	2
27	53	49	51	42	38	40	33	30	31	2	2	2
28	52	49	50	42	39	40	32	27	29	2	2	2
29	49	43	46	43	37	39	33	28	30	2	2	2
30	48	45	46	43	35	38	34	28	30	3	2	2
31	---	---	---	37	33	35	34	28	30	---	---	---
MONTH	58	40	49	---	---	---	39	27	32	80	2	30

## ROANOKE RIVER BASIN

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	65	43	55	70	52	65	63	58	60	75	73	74
2	67	54	62	75	59	69	64	60	62	73	71	72
3	66	53	58	71	66	68	69	62	65	72	69	70
4	54	47	51	77	66	74	71	65	68	70	67	68
5	47	36	42	76	69	73	75	69	72	69	67	68
6	43	29	35	75	66	71	77	74	75	69	67	68
7	33	19	26	74	65	69	78	74	76	70	67	68
8	55	18	35	83	62	70	79	74	76	72	69	71
9	64	39	48	85	80	83	76	72	74	72	71	71
10	73	63	69	84	78	81	74	69	72	72	71	71
11	72	68	70	80	75	77	72	66	69	72	69	71
12	70	59	65	77	71	74	73	67	70	74	71	72
13	61	40	54	75	68	71	75	69	72	75	72	74
14	67	53	60	73	65	69	77	72	75	77	74	75
15	85	57	65	68	60	63	81	75	79	78	76	77
16	85	46	61	70	61	65	84	78	80	80	77	78
17	57	47	51	70	65	68	85	81	83	81	80	80
18	60	55	57	68	64	66	88	82	84	82	79	81
19	56	49	52	66	61	63	88	84	86	83	80	82
20	69	46	53	63	56	59	88	84	86	84	82	83
21	70	47	62	63	57	60	86	81	83	84	83	83
22	55	42	48	67	62	64	83	78	81	86	83	85
23	73	47	62	68	65	66	80	76	78	86	85	85
24	72	54	65	67	65	66	77	74	75	87	84	86
25	65	55	59	69	66	68	74	72	73	86	85	86
26	80	54	68	69	64	67	73	69	71	89	86	88
27	78	67	74	68	63	65	72	70	70	89	87	88
28	69	62	66	67	59	63	73	70	71	91	88	89
29	66	59	62	61	57	58	75	72	73	90	88	89
30	68	57	64	60	56	58	75	74	75	90	88	89
31	72	65	68	---	---	---	75	74	75	88	87	87
MONTH	85	18	57	85	52	68	88	58	74	91	67	78
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	91	87	89	87	84	86	75	69	71	65	62	63
2	91	89	90	88	85	87	---	---	---	65	58	61
3	92	89	91	86	82	84	76	69	72	61	56	59
4	92	89	91	86	82	84	75	66	69	59	56	57
5	92	87	91	86	82	84	73	63	67	61	57	59
6	91	86	88	86	80	83	---	---	---	61	59	60
7	90	87	89	83	72	78	---	---	---	60	56	58
8	91	87	89	80	72	75	---	---	---	60	55	57
9	91	89	90	83	79	80	62	56	59	58	54	55
10	94	89	91	84	79	82	---	---	---	58	53	54
11	94	90	92	83	78	81	---	---	---	53	50	52
12	94	90	92	84	78	80	64	60	62	52	49	51
13	93	89	91	87	82	85	66	61	63	53	48	50
14	90	86	88	90	83	86	65	60	62	52	50	51
15	92	88	89	86	81	83	64	59	61	52	51	51
16	92	89	91	87	83	85	63	57	60	52	50	51
17	92	89	91	89	81	85	62	56	59	54	51	53
18	90	87	89	87	79	83	61	53	56	54	51	52
19	92	88	90	86	80	83	56	52	54	56	52	54
20	93	91	92	85	77	82	---	---	---	56	52	54
21	97	92	95	78	71	75	---	---	---	56	53	54
22	101	96	98	73	70	72	---	---	---	57	54	56
23	101	96	98	78	73	76	---	---	---	64	57	61
24	98	92	95	80	75	78	---	---	---	65	55	61
25	97	92	94	83	78	80	---	---	---	58	54	55
26	94	88	90	85	77	81	---	---	---	56	51	53
27	89	87	88	86	76	81	---	---	---	54	47	51
28	88	85	86	81	75	77	---	---	---	50	45	47
29	---	---	---	82	73	77	---	---	---	51	48	50
30	---	---	---	78	62	72	---	---	---	51	48	50
31	---	---	---	70	58	62	---	---	---	54	48	51
MONTH	101	85	91	90	58	80	---	---	---	65	45	55

## 0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	56	49	53	47	41	44	41	38	39	34	30	33
2	56	53	55	51	40	44	40	38	39	36	32	33
3	57	54	56	51	42	46	40	37	38	37	33	35
4	57	51	54	---	---	---	40	36	37	42	36	38
5	56	50	52	---	---	---	38	36	37	45	40	43
6	52	48	50	---	---	---	38	36	37	43	35	37
7	55	50	52	---	---	---	39	36	38	44	36	40
8	56	48	52	---	---	---	42	34	38	47	42	44
9	52	46	49	---	---	---	39	33	36	54	46	49
10	50	45	48	---	---	---	35	30	33	55	51	53
11	50	45	48	---	---	---	38	29	33	55	51	54
12	49	45	47	49	43	47	32	28	29	65	55	58
13	50	44	47	45	41	43	38	28	31	59	53	57
14	50	45	47	46	42	44	36	31	33	55	52	54
15	48	43	45	44	42	43	36	31	34	55	50	53
16	49	43	45	44	41	42	37	35	36	60	53	56
17	49	41	45	44	41	43	37	34	35	65	59	61
18	45	40	42	45	40	42	36	32	33	83	50	65
19	45	40	43	44	41	42	35	29	32	50	33	41
20	45	37	40	43	41	41	33	31	32	33	2	18
21	44	39	42	44	40	42	31	29	31	2	2	2
22	48	41	45	44	42	43	30	27	29	4	2	2
23	51	43	47	48	40	43	31	27	30	4	4	4
24	50	45	48	48	42	46	31	27	29	4	4	4
25	55	46	51	44	41	42	33	29	31	4	2	4
26	55	50	52	46	41	43	34	31	32	4	2	4
27	55	49	52	47	44	46	32	30	31	4	2	4
28	54	47	50	47	44	46	33	30	31	4	2	4
29	49	41	45	47	42	44	34	30	32	5	2	4
30	47	36	42	47	37	41	36	30	33	5	3	5
31	---	---	---	41	38	39	37	30	33	---	---	---
MONTH	57	36	48	---	---	---	42	27	34	83	2	32