

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 in cooperation with U.S. Fish and Wildlife Service 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

| CONSTITUENT | MAXIMUM RECORDED | MINIMUM RECORDED |
|--|--------------------------|----------------------------|
| SPECIFIC CONDUCTANCE, microsiemens | 194, March 1, 2001 | 52, September 17, 1999 |
| pH, standard units | 8.1, July 1, 2, 2002 | 6.1, September 17, 1999 |
| WATER TEMPERATURE, °C | 31.0, August 1, 2002 | 2.1, January 3, 2001 |
| DISSOLVED OXYGEN, mg/L | 15.5, January 6, 7, 1999 | 3.5, September 23, 24 1999 |
| DISSOLVED OXYGEN, PERCENT SATURATION,% | 123, January 6, 7, 1999 | 38, September 23, 1999 |

EXTREMES FOR CURRENT YEAR.--

| CONSTITUENT | MAXIMUM RECORDED | MINIMUM RECORDED |
|--|--------------------|------------------|
| SPECIFIC CONDUCTANCE, microsiemens | 179, September 26 | 91, April 3 |
| pH, standard units | 8.1, July 1, 2 | 6.3, April 3 |
| WATER TEMPERATURE, °C | 31.0, August 1 | 3.0, January 5 |
| DISSOLVED OXYGEN, mg/L | 12.0, January 5, 6 | 4.1, June 9 |
| DISSOLVED OXYGEN, PERCENT SATURATION,% | 104, June 25 | 49, June 9 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | | | | | | | | | | | | |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|----------|--|--|----------|--|--|----------|--|--|---------|--|--|
| | | | | | | | | | | | | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | --- | --- | --- | 148 | 132 | 139 | 148 | 146 | 146 | 145 | 144 | 145 | | | | | | | | | | | | |
| 2 | --- | --- | --- | 149 | 144 | 147 | 147 | 144 | 146 | 146 | 135 | 145 | | | | | | | | | | | | |
| 3 | 144 | 141 | 142 | 149 | 148 | 149 | 147 | 143 | 144 | 156 | 141 | 144 | | | | | | | | | | | | |
| 4 | 144 | 121 | 136 | 151 | 149 | 150 | 144 | 141 | 142 | 159 | 141 | 143 | | | | | | | | | | | | |
| 5 | 140 | 119 | 128 | 151 | 149 | 150 | 145 | 140 | 141 | 143 | 141 | 142 | | | | | | | | | | | | |
| 6 | 139 | 120 | 128 | 149 | 145 | 147 | 144 | 137 | 140 | 149 | 143 | 145 | | | | | | | | | | | | |
| 7 | 141 | 124 | 131 | 147 | 145 | 146 | 147 | 143 | 145 | 146 | 144 | 145 | | | | | | | | | | | | |
| 8 | 145 | 136 | 144 | 146 | 144 | 145 | 152 | 146 | 148 | 144 | 142 | 143 | | | | | | | | | | | | |
| 9 | 145 | 140 | 144 | 147 | 145 | 146 | 153 | 145 | 146 | 145 | 142 | 143 | | | | | | | | | | | | |
| 10 | 144 | 136 | 141 | 148 | 146 | 147 | 150 | 143 | 145 | 143 | 140 | 142 | | | | | | | | | | | | |
| 11 | 141 | 122 | 135 | 150 | 147 | 148 | 162 | 140 | 148 | 143 | 140 | 141 | | | | | | | | | | | | |
| 12 | 139 | 122 | 131 | 150 | 148 | 150 | 140 | 136 | 138 | 147 | 142 | 144 | | | | | | | | | | | | |
| 13 | 147 | 133 | 139 | 150 | 143 | 148 | 144 | 136 | 139 | 147 | 143 | 144 | | | | | | | | | | | | |
| 14 | 151 | 147 | 150 | 147 | 142 | 144 | 146 | 140 | 142 | 145 | 141 | 142 | | | | | | | | | | | | |
| 15 | 151 | 149 | 150 | 143 | 141 | 142 | 150 | 141 | 143 | 141 | 130 | 137 | | | | | | | | | | | | |
| 16 | 150 | 144 | 147 | 145 | 142 | 143 | 157 | 142 | 143 | 131 | 129 | 130 | | | | | | | | | | | | |
| 17 | 144 | 139 | 142 | 147 | 143 | 145 | 147 | 140 | 142 | 137 | 131 | 133 | | | | | | | | | | | | |
| 18 | 139 | 121 | 126 | 147 | 144 | 145 | 155 | 140 | 145 | 137 | 136 | 136 | | | | | | | | | | | | |
| 19 | 147 | 122 | 139 | 145 | 143 | 144 | 144 | 142 | 143 | 137 | 132 | 136 | | | | | | | | | | | | |
| 20 | 147 | 134 | 141 | 146 | 144 | 145 | 146 | 142 | 144 | 133 | 127 | 131 | | | | | | | | | | | | |
| 21 | 149 | 128 | 141 | 144 | 141 | 142 | 150 | 142 | 148 | 127 | 116 | 122 | | | | | | | | | | | | |
| 22 | 143 | 123 | 128 | 143 | 141 | 142 | 149 | 139 | 147 | 116 | 108 | 111 | | | | | | | | | | | | |
| 23 | 147 | 143 | 146 | 144 | 143 | 143 | 149 | 146 | 147 | 112 | 109 | 110 | | | | | | | | | | | | |
| 24 | 147 | 145 | 146 | 144 | 141 | 143 | 148 | 146 | 147 | 121 | 112 | 117 | | | | | | | | | | | | |
| 25 | 148 | 146 | 147 | 144 | 141 | 142 | 148 | 145 | 146 | 124 | 120 | 122 | | | | | | | | | | | | |
| 26 | --- | --- | --- | 142 | 141 | 142 | 145 | 144 | 144 | 127 | 123 | 125 | | | | | | | | | | | | |
| 27 | --- | --- | --- | 146 | 142 | 143 | 144 | 144 | 144 | 136 | 126 | 129 | | | | | | | | | | | | |
| 28 | --- | --- | --- | 143 | 141 | 142 | 144 | 143 | 144 | 129 | 127 | 128 | | | | | | | | | | | | |
| 29 | --- | --- | --- | 144 | 141 | 142 | 145 | 144 | 144 | 132 | 128 | 129 | | | | | | | | | | | | |
| 30 | 155 | 151 | 153 | 148 | 144 | 147 | 147 | 144 | 145 | 134 | 131 | 132 | | | | | | | | | | | | |
| 31 | 151 | 148 | 149 | --- | --- | --- | 145 | 144 | 145 | 138 | 134 | 136 | | | | | | | | | | | | |
| MONTH | --- | --- | --- | 151 | 132 | 145 | 162 | 136 | 144 | 159 | 108 | 135 | | | | | | | | | | | | |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | | | | | | | | | | | | |
| | | | | | | | | | | | | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 154 | 137 | 146 | 154 | 150 | 152 | 176 | 140 | 152 | 167 | 165 | 166 | | | | | | | | | | | | |
| 2 | 158 | 145 | 150 | 155 | 154 | 155 | 142 | 102 | 130 | 167 | 165 | 166 | | | | | | | | | | | | |
| 3 | 167 | 145 | 149 | 157 | 154 | 155 | 102 | 91 | 93 | 168 | 166 | 167 | | | | | | | | | | | | |
| 4 | 165 | 143 | 155 | 157 | 151 | 153 | 116 | 93 | 104 | 169 | 165 | 167 | | | | | | | | | | | | |
| 5 | 156 | 143 | 146 | 152 | 147 | 149 | 131 | 116 | 124 | 168 | 157 | 165 | | | | | | | | | | | | |
| 6 | 160 | 142 | 148 | 148 | 146 | 146 | 135 | 131 | 132 | 163 | 160 | 161 | | | | | | | | | | | | |
| 7 | 145 | 140 | 142 | 151 | 133 | 147 | 140 | 135 | 137 | 161 | 160 | 161 | | | | | | | | | | | | |
| 8 | 145 | 143 | 144 | 155 | 151 | 153 | 144 | 140 | 141 | 162 | 160 | 161 | | | | | | | | | | | | |
| 9 | 152 | 141 | 147 | 156 | 153 | 155 | 148 | 144 | 145 | 164 | 161 | 162 | | | | | | | | | | | | |
| 10 | 152 | 139 | 147 | 157 | 147 | 156 | 149 | 147 | 148 | 166 | 163 | 164 | | | | | | | | | | | | |
| 11 | 152 | 137 | 139 | 157 | 155 | 156 | 151 | 149 | 150 | 169 | 164 | 166 | | | | | | | | | | | | |
| 12 | 164 | 137 | 140 | 156 | 152 | 154 | 152 | 151 | 151 | 169 | 166 | 168 | | | | | | | | | | | | |
| 13 | 142 | 140 | 141 | 153 | 146 | 151 | 152 | 151 | 151 | 168 | 163 | 166 | | | | | | | | | | | | |
| 14 | 146 | 142 | 143 | 152 | 145 | 150 | 155 | 148 | 153 | 163 | 157 | 159 | | | | | | | | | | | | |
| 15 | 150 | 143 | 148 | 155 | 152 | 153 | 155 | 143 | 148 | 159 | 156 | 158 | | | | | | | | | | | | |
| 16 | 150 | 149 | 150 | 162 | 154 | 156 | 155 | 142 | 152 | 161 | 156 | 159 | | | | | | | | | | | | |
| 17 | 150 | 146 | 148 | 157 | 154 | 155 | 155 | 154 | 155 | 164 | 160 | 162 | | | | | | | | | | | | |
| 18 | 149 | 147 | 148 | 168 | 152 | 153 | 156 | 152 | 154 | 164 | 160 | 162 | | | | | | | | | | | | |
| 19 | 149 | 147 | 148 | 159 | 147 | 149 | 160 | 155 | 158 | 161 | 159 | 160 | | | | | | | | | | | | |
| 20 | 149 | 147 | 148 | 159 | 141 | 145 | 161 | 157 | 159 | 160 | 157 | 158 | | | | | | | | | | | | |
| 21 | 154 | 144 | 150 | 156 | 137 | 139 | 161 | 146 | 153 | 161 | 158 | 159 | | | | | | | | | | | | |
| 22 | 157 | 143 | 155 | 142 | 139 | 141 | 163 | 148 | 160 | 162 | 159 | 161 | | | | | | | | | | | | |
| 23 | 157 | 156 | 157 | 144 | 142 | 143 | 162 | 146 | 160 | 161 | 157 | 160 | | | | | | | | | | | | |
| 24 | 156 | 154 | 155 | 143 | 130 | 134 | 161 | 142 | 150 | 161 | 158 | 160 | | | | | | | | | | | | |
| 25 | 154 | 148 | 153 | 134 | 129 | 131 | 162 | 143 | 152 | 163 | 159 | 161 | | | | | | | | | | | | |
| 26 | 153 | 152 | 152 | 133 | 131 | 132 | 162 | 141 | 151 | 163 | 160 | 162 | | | | | | | | | | | | |
| 27 | 152 | 150 | 151 | 133 | 131 | 132 | 165 | 146 | 152 | 163 | 160 | 162 | | | | | | | | | | | | |
| 28 | 152 | 149 | 150 | 131 | 129 | 130 | 166 | 149 | 156 | 163 | 160 | 161 | | | | | | | | | | | | |
| 29 | --- | --- | --- | 129 | 127 | 128 | 161 | 148 | 153 | 163 | 160 | 162 | | | | | | | | | | | | |
| 30 | --- | --- | --- | 128 | 125 | 126 | 167 | 151 | 162 | 164 | 160 | 162 | | | | | | | | | | | | |
| 31 | --- | --- | --- | 169 | 126 | 133 | --- | --- | --- | 165 | 161 | 163 | | | | | | | | | | | | |
| MONTH | 167 | 137 | 148 | 169 | 125 | 146 | 176 | 91 | 146 | 169 | 156 | 162 | | | | | | | | | | | | |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 166 | 162 | 164 | 168 | 163 | 165 | 162 | 150 | 154 | 168 | 163 | 167 |
| 2 | 166 | 164 | 165 | 167 | 161 | 165 | 164 | 161 | 162 | 166 | 162 | 164 |
| 3 | 166 | 164 | 165 | 168 | 163 | 166 | 170 | 163 | 166 | 168 | 166 | 167 |
| 4 | 165 | 163 | 164 | 167 | 154 | 160 | 168 | 164 | 165 | 173 | 168 | 169 |
| 5 | 164 | 157 | 162 | 167 | 152 | 159 | 168 | 166 | 167 | 170 | 169 | 169 |
| 6 | 166 | 162 | 165 | 162 | 150 | 157 | 168 | 165 | 167 | 171 | 168 | 170 |
| 7 | 165 | 162 | 164 | 162 | 152 | 157 | 169 | 163 | 167 | 173 | 170 | 171 |
| 8 | 164 | 161 | 162 | 163 | 152 | 157 | 170 | 166 | 168 | 173 | 171 | 172 |
| 9 | 163 | 156 | 160 | 164 | 160 | 162 | 170 | 167 | 168 | 172 | 171 | 171 |
| 10 | 165 | 159 | 163 | 163 | 150 | 160 | 170 | 162 | 166 | 172 | 167 | 170 |
| 11 | 167 | 161 | 164 | 159 | 145 | 153 | 170 | 167 | 169 | 172 | 170 | 171 |
| 12 | 166 | 161 | 164 | 162 | 149 | 156 | 167 | 164 | 165 | 172 | 170 | 171 |
| 13 | 166 | 162 | 164 | 161 | 147 | 156 | 168 | 164 | 166 | 173 | 170 | 171 |
| 14 | 165 | 162 | 163 | 161 | 145 | 156 | 167 | 164 | 165 | 174 | 169 | 172 |
| 15 | 166 | 162 | 164 | 163 | 147 | 155 | 168 | 163 | 166 | 174 | 171 | 172 |
| 16 | 167 | 164 | 166 | 167 | 150 | 163 | 170 | 166 | 168 | 174 | 168 | 171 |
| 17 | 167 | 164 | 166 | 166 | 153 | 162 | 171 | 168 | 170 | 168 | 165 | 167 |
| 18 | 168 | 163 | 165 | 163 | 153 | 158 | 171 | 166 | 169 | 165 | 157 | 161 |
| 19 | 167 | 157 | 164 | 163 | 153 | 158 | 171 | 166 | 169 | 167 | 158 | 162 |
| 20 | 167 | 162 | 164 | 164 | 153 | 159 | 169 | 165 | 167 | 167 | 165 | 166 |
| 21 | 167 | 165 | 166 | 165 | 148 | 160 | 168 | 164 | 166 | 167 | 163 | 165 |
| 22 | 167 | 163 | 165 | 165 | 151 | 158 | 172 | 166 | 168 | 168 | 166 | 166 |
| 23 | 169 | 164 | 166 | 165 | 150 | 159 | 174 | 168 | 172 | 169 | 164 | 167 |
| 24 | 168 | 156 | 165 | 159 | 151 | 157 | 176 | 172 | 174 | 172 | 166 | 169 |
| 25 | 168 | 159 | 165 | 156 | 142 | 151 | 177 | 174 | 175 | 173 | 170 | 171 |
| 26 | 168 | 165 | 167 | 157 | 146 | 152 | 175 | 170 | 173 | 179 | 172 | 175 |
| 27 | 169 | 163 | 167 | 158 | 145 | 153 | 176 | 171 | 174 | 176 | 173 | 174 |
| 28 | 168 | 167 | 168 | 157 | 148 | 153 | 175 | 165 | 168 | 177 | 174 | 176 |
| 29 | 168 | 164 | 166 | 158 | 148 | 151 | 165 | 156 | 159 | 177 | 175 | 176 |
| 30 | 168 | 164 | 166 | 161 | 157 | 159 | 166 | 161 | 164 | 175 | 174 | 175 |
| 31 | --- | --- | --- | 159 | 156 | 158 | 168 | 161 | 164 | --- | --- | --- |
| MONTH | 169 | 156 | 165 | 168 | 142 | 158 | 177 | 150 | 167 | 179 | 157 | 170 |

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

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

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 7.3 | 7.2 | 7.2 | 8.1 | 7.5 | 7.7 | 7.5 | 7.4 | 7.4 | 7.0 | 6.8 | 6.9 |
| 2 | 7.4 | 7.2 | 7.3 | 8.1 | 7.5 | 7.7 | 7.7 | 7.4 | 7.6 | 6.8 | 6.7 | 6.8 |
| 3 | 7.5 | 7.3 | 7.4 | 7.5 | 7.3 | 7.4 | 7.6 | 7.4 | 7.5 | 6.9 | 6.8 | 6.8 |
| 4 | 7.5 | 7.3 | 7.4 | 7.4 | 7.3 | 7.3 | 7.5 | 7.3 | 7.4 | 7.0 | 6.8 | 6.9 |
| 5 | 7.5 | 7.4 | 7.4 | 7.4 | 7.3 | 7.3 | 7.5 | 7.3 | 7.4 | 7.1 | 7.0 | 7.0 |
| 6 | 7.5 | 7.4 | 7.4 | 7.4 | 7.2 | 7.3 | 7.5 | 7.3 | 7.4 | 7.2 | 7.0 | 7.1 |
| 7 | 7.5 | 7.4 | 7.4 | 7.4 | 7.3 | 7.3 | 7.4 | 7.2 | 7.3 | 7.2 | 7.1 | 7.1 |
| 8 | 7.5 | 7.4 | 7.4 | 7.5 | 7.3 | 7.4 | 7.3 | 7.2 | 7.3 | 7.2 | 7.1 | 7.2 |
| 9 | 7.4 | 7.2 | 7.3 | 7.5 | 7.3 | 7.4 | 7.3 | 7.1 | 7.2 | 7.3 | 7.2 | 7.2 |
| 10 | 7.4 | 7.3 | 7.4 | 7.5 | 7.3 | 7.4 | 7.2 | 7.1 | 7.2 | 7.3 | 7.2 | 7.2 |
| 11 | 7.4 | 7.4 | 7.4 | 7.4 | 7.2 | 7.3 | 7.2 | 7.0 | 7.1 | 7.3 | 7.2 | 7.2 |
| 12 | 7.5 | 7.4 | 7.5 | 7.4 | 7.3 | 7.4 | 7.1 | 7.0 | 7.1 | 7.4 | 7.3 | 7.3 |
| 13 | 7.5 | 7.4 | 7.5 | 7.4 | 7.3 | 7.4 | 7.2 | 7.0 | 7.1 | 7.4 | 7.3 | 7.3 |
| 14 | 7.5 | 7.4 | 7.4 | 7.4 | 7.3 | 7.4 | 7.1 | 7.0 | 7.1 | 7.3 | 7.2 | 7.3 |
| 15 | 7.6 | 7.4 | 7.4 | 7.4 | 7.3 | 7.4 | 7.1 | 6.9 | 7.0 | 7.3 | 7.2 | 7.2 |
| 16 | 7.6 | 7.4 | 7.5 | 7.5 | 7.4 | 7.4 | 7.0 | 7.0 | 7.0 | 7.3 | 7.3 | 7.3 |
| 17 | 7.6 | 7.4 | 7.5 | 7.4 | 7.3 | 7.4 | 7.0 | 6.9 | 7.0 | 7.4 | 7.3 | 7.3 |
| 18 | 7.6 | 7.4 | 7.5 | 7.4 | 7.3 | 7.4 | 7.0 | 7.0 | 7.0 | 7.4 | 7.2 | 7.3 |
| 19 | 7.7 | 7.5 | 7.5 | 7.4 | 7.3 | 7.3 | 7.0 | 6.9 | 7.0 | 7.3 | 7.2 | 7.3 |
| 20 | 7.7 | 7.5 | 7.6 | 7.4 | 7.3 | 7.3 | 7.1 | 6.8 | 6.9 | 7.3 | 7.3 | 7.3 |
| 21 | 7.8 | 7.5 | 7.6 | 7.4 | 7.3 | 7.4 | 7.1 | 6.8 | 6.9 | 7.4 | 7.3 | 7.4 |
| 22 | 7.8 | 7.6 | 7.7 | 7.5 | 7.3 | 7.4 | 7.1 | 6.9 | 6.9 | 7.5 | 7.4 | 7.4 |
| 23 | 7.7 | 7.5 | 7.6 | 7.6 | 7.3 | 7.4 | 7.2 | 6.9 | 7.0 | 7.5 | 7.4 | 7.5 |
| 24 | 7.9 | 7.5 | 7.7 | 7.6 | 7.6 | 7.6 | 7.1 | 6.9 | 7.0 | 7.6 | 7.5 | 7.5 |
| 25 | 8.0 | 7.6 | 7.7 | 7.6 | 7.5 | 7.6 | 7.1 | 6.9 | 7.0 | 7.6 | 7.5 | 7.6 |
| 26 | 7.9 | 7.5 | 7.6 | 7.5 | 7.4 | 7.5 | 7.0 | 6.9 | 6.9 | 7.5 | 7.5 | 7.5 |
| 27 | 7.8 | 7.4 | 7.6 | 7.5 | 7.4 | 7.4 | 7.0 | 6.9 | 6.9 | 7.5 | 7.4 | 7.5 |
| 28 | 7.6 | 7.4 | 7.5 | 7.5 | 7.4 | 7.5 | 7.0 | 6.9 | 7.0 | 7.4 | 7.3 | 7.4 |
| 29 | 7.8 | 7.4 | 7.5 | 7.7 | 7.4 | 7.5 | 7.0 | 6.8 | 6.9 | 7.4 | 7.3 | 7.3 |
| 30 | 7.9 | 7.4 | 7.6 | 7.5 | 7.4 | 7.4 | 6.9 | 6.8 | 6.8 | 7.4 | 7.2 | 7.3 |
| 31 | --- | --- | --- | 7.5 | 7.3 | 7.4 | 6.9 | 6.8 | 6.9 | --- | --- | --- |
| MONTH | 8.0 | 7.2 | 7.5 | 8.1 | 7.2 | 7.4 | 7.7 | 6.8 | 7.1 | 7.6 | 6.7 | 7.2 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|----------|------|------|----------|------|------|----------|------|------|---------|------|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | --- | --- | --- | 16.2 | 14.8 | 15.5 | 16.8 | 16.1 | 16.5 | 7.2 | 6.6 | 7.0 |
| 2 | --- | --- | --- | 17.2 | 15.8 | 16.4 | 16.1 | 15.2 | 15.8 | 6.6 | 5.7 | 6.3 |
| 3 | 20.9 | 19.6 | 20.2 | 17.9 | 16.7 | 17.3 | 15.2 | 14.1 | 14.7 | 5.7 | 3.8 | 4.8 |
| 4 | 21.5 | 20.5 | 21.0 | 18.0 | 17.3 | 17.6 | 14.2 | 13.7 | 13.9 | 4.1 | 3.3 | 3.7 |
| 5 | 21.7 | 20.8 | 21.3 | 17.3 | 15.8 | 16.6 | 13.7 | 13.1 | 13.4 | 3.8 | 3.0 | 3.4 |
| 6 | 21.7 | 20.7 | 21.4 | 15.8 | 14.3 | 15.0 | 13.7 | 12.9 | 13.3 | 4.5 | 3.6 | 4.0 |
| 7 | 20.9 | 19.9 | 20.5 | 14.3 | 13.5 | 13.8 | 14.4 | 13.4 | 13.9 | 5.1 | 4.4 | 4.7 |
| 8 | 19.9 | 18.5 | 19.2 | 14.4 | 13.2 | 13.7 | 15.2 | 14.2 | 14.7 | 4.8 | 4.2 | 4.5 |
| 9 | 18.5 | 17.7 | 18.1 | 14.5 | 13.9 | 14.1 | 15.1 | 14.3 | 14.9 | 4.5 | 4.0 | 4.3 |
| 10 | 18.6 | 17.6 | 18.2 | 14.6 | 13.7 | 14.2 | 14.3 | 13.6 | 14.0 | 5.2 | 4.3 | 4.7 |
| 11 | 19.4 | 18.3 | 18.8 | 14.5 | 13.9 | 14.2 | 13.6 | 13.1 | 13.4 | 6.2 | 5.0 | 5.6 |
| 12 | 20.2 | 19.2 | 19.6 | 13.9 | 13.2 | 13.7 | 13.2 | 12.9 | 13.0 | 6.5 | 5.6 | 6.1 |
| 13 | 20.7 | 19.4 | 19.9 | 13.6 | 12.8 | 13.1 | 13.6 | 13.0 | 13.3 | 6.8 | 6.2 | 6.4 |
| 14 | 21.1 | 19.9 | 20.4 | 13.6 | 12.7 | 13.1 | 14.3 | 13.5 | 13.9 | 6.4 | 5.8 | 6.1 |
| 15 | 21.0 | 20.3 | 20.6 | 13.7 | 12.9 | 13.2 | 14.6 | 14.2 | 14.4 | 6.8 | 5.8 | 6.2 |
| 16 | 20.6 | 19.7 | 20.2 | 14.1 | 13.1 | 13.5 | 14.2 | 13.3 | 13.8 | 6.6 | 6.0 | 6.3 |
| 17 | 19.7 | 18.6 | 19.0 | 14.3 | 13.6 | 13.9 | 13.3 | 12.7 | 12.9 | 6.9 | 6.0 | 6.4 |
| 18 | 18.6 | 17.3 | 18.0 | 14.3 | 13.5 | 13.9 | 12.9 | 12.4 | 12.8 | 7.1 | 6.6 | 6.8 |
| 19 | 17.8 | 16.7 | 17.3 | 14.5 | 13.6 | 14.0 | 12.6 | 12.0 | 12.3 | 6.7 | 6.5 | 6.6 |
| 20 | 18.1 | 17.2 | 17.7 | 14.3 | 13.6 | 14.1 | 12.2 | 11.2 | 11.8 | 6.7 | 6.2 | 6.4 |
| 21 | 18.9 | 18.0 | 18.4 | 13.6 | 12.4 | 13.0 | 11.2 | 9.6 | 10.4 | 6.2 | 5.8 | 6.0 |
| 22 | 20.0 | 18.8 | 19.4 | 12.5 | 11.8 | 12.2 | 9.6 | 8.9 | 9.3 | 6.0 | 5.5 | 5.8 |
| 23 | 20.4 | 19.3 | 19.8 | 12.1 | 11.6 | 11.9 | 9.1 | 8.5 | 8.9 | 6.6 | 5.9 | 6.3 |
| 24 | 21.2 | 20.0 | 20.5 | 13.0 | 11.9 | 12.5 | 9.9 | 9.1 | 9.6 | 8.1 | 6.5 | 7.3 |
| 25 | 21.2 | 20.4 | 20.8 | 14.2 | 12.9 | 13.6 | 9.9 | 9.3 | 9.6 | 8.9 | 8.1 | 8.6 |
| 26 | --- | --- | --- | 15.4 | 14.1 | 14.8 | 9.7 | 9.2 | 9.5 | 9.0 | 8.3 | 8.6 |
| 27 | --- | --- | --- | 16.0 | 15.2 | 15.7 | 9.2 | 7.9 | 8.6 | 8.9 | 8.3 | 8.5 |
| 28 | --- | --- | --- | 16.5 | 15.8 | 16.2 | 7.9 | 7.3 | 7.7 | 8.8 | 8.2 | 8.5 |
| 29 | --- | --- | --- | 16.7 | 16.0 | 16.3 | 7.7 | 7.2 | 7.5 | 9.8 | 8.5 | 9.1 |
| 30 | 14.6 | 13.6 | 14.1 | 16.8 | 16.2 | 16.5 | 7.4 | 6.9 | 7.2 | 11.4 | 9.6 | 10.6 |
| 31 | 15.2 | 14.1 | 14.6 | --- | --- | --- | 7.4 | 6.8 | 7.1 | 12.3 | 11.2 | 11.8 |
| MONTH | --- | --- | --- | 18.0 | 11.6 | 14.5 | 16.8 | 6.8 | 12.0 | 12.3 | 3.0 | 6.5 |
| DAY | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 13.4 | 11.7 | 12.6 | 9.7 | 8.4 | 9.0 | 16.4 | 15.1 | 15.7 | 22.3 | 20.8 | 21.5 |
| 2 | 13.1 | 12.3 | 12.8 | 8.8 | 8.2 | 8.6 | 15.6 | 15.1 | 15.4 | 23.5 | 21.6 | 22.5 |
| 3 | 12.3 | 11.1 | 11.7 | 9.9 | 8.7 | 9.3 | 16.7 | 15.2 | 15.8 | 23.2 | 22.4 | 22.8 |
| 4 | 11.1 | 8.6 | 10.2 | 10.3 | 9.1 | 9.8 | 17.2 | 16.7 | 16.9 | 22.4 | 20.5 | 21.5 |
| 5 | 8.6 | 7.4 | 8.0 | 9.6 | 8.6 | 9.0 | 17.5 | 16.3 | 17.0 | 20.5 | 18.9 | 19.6 |
| 6 | 7.6 | 7.1 | 7.4 | 9.4 | 8.3 | 8.8 | 16.3 | 14.9 | 15.9 | 20.0 | 18.3 | 19.2 |
| 7 | 7.5 | 7.2 | 7.3 | 9.9 | 8.4 | 9.1 | 15.4 | 14.2 | 14.8 | 21.9 | 19.7 | 20.7 |
| 8 | 8.4 | 7.1 | 7.7 | 11.6 | 9.4 | 10.4 | 15.7 | 14.0 | 14.8 | 24.0 | 21.6 | 22.8 |
| 9 | 8.8 | 8.0 | 8.4 | 12.9 | 11.0 | 11.9 | 17.1 | 15.0 | 16.0 | 25.2 | 23.4 | 24.3 |
| 10 | 9.5 | 8.5 | 9.0 | 13.6 | 12.5 | 13.0 | 17.6 | 16.7 | 17.1 | 26.2 | 24.3 | 25.2 |
| 11 | 10.1 | 9.2 | 9.5 | 13.2 | 12.0 | 12.6 | 18.0 | 16.3 | 17.2 | 25.4 | 24.2 | 25.1 |
| 12 | 9.9 | 9.0 | 9.4 | 12.1 | 11.6 | 11.8 | 18.7 | 17.1 | 17.8 | 24.4 | 23.0 | 23.8 |
| 13 | 9.5 | 8.8 | 9.1 | 11.6 | 11.1 | 11.4 | 19.2 | 17.8 | 18.5 | 24.8 | 23.6 | 24.2 |
| 14 | 9.1 | 8.3 | 8.7 | 12.7 | 10.9 | 11.8 | 20.1 | 18.3 | 19.2 | 24.3 | 22.7 | 23.4 |
| 15 | 9.3 | 8.0 | 8.6 | 14.2 | 12.2 | 13.1 | 20.9 | 19.2 | 19.9 | 23.4 | 22.4 | 22.9 |
| 16 | 9.8 | 8.8 | 9.2 | 15.8 | 13.9 | 14.9 | 22.1 | 20.1 | 21.0 | 23.2 | 22.4 | 22.8 |
| 17 | 9.9 | 8.9 | 9.4 | 15.5 | 14.7 | 15.3 | 23.2 | 21.3 | 22.2 | 23.5 | 22.5 | 23.0 |
| 18 | 9.5 | 8.4 | 8.9 | 14.7 | 13.5 | 14.2 | 23.9 | 21.9 | 22.8 | 23.5 | 22.6 | 23.1 |
| 19 | 9.2 | 8.2 | 8.7 | 13.5 | 12.9 | 13.2 | 24.2 | 22.7 | 23.2 | 22.6 | 21.2 | 21.9 |
| 20 | 9.7 | 8.5 | 9.1 | 13.0 | 12.4 | 12.7 | 23.6 | 22.1 | 22.7 | 21.2 | 20.4 | 20.8 |
| 21 | 11.2 | 9.5 | 10.3 | 13.3 | 12.8 | 13.0 | 22.9 | 21.6 | 22.2 | 20.7 | 19.8 | 20.2 |
| 22 | 11.7 | 10.5 | 11.0 | 13.0 | 11.9 | 12.5 | 21.7 | 20.7 | 21.5 | 20.8 | 19.9 | 20.4 |
| 23 | 11.1 | 10.2 | 10.7 | 12.5 | 11.3 | 11.9 | 20.7 | 19.7 | 20.2 | 20.7 | 19.8 | 20.3 |
| 24 | 10.4 | 9.4 | 9.9 | 13.0 | 11.3 | 12.1 | 20.1 | 18.8 | 19.5 | 21.8 | 20.2 | 21.0 |
| 25 | 10.2 | 9.0 | 9.6 | 14.1 | 12.1 | 13.1 | 20.0 | 18.8 | 19.3 | 23.0 | 21.6 | 22.3 |
| 26 | 10.8 | 9.3 | 10.0 | 15.6 | 13.6 | 14.5 | 20.7 | 19.2 | 19.9 | 23.9 | 22.8 | 23.4 |
| 27 | 11.0 | 9.7 | 10.5 | 16.2 | 15.1 | 15.6 | 20.7 | 19.3 | 20.0 | 25.0 | 23.6 | 24.3 |
| 28 | 10.2 | 9.0 | 9.6 | 15.7 | 14.4 | 15.1 | 21.1 | 19.6 | 20.2 | 24.9 | 24.4 | 24.6 |
| 29 | --- | --- | --- | 15.2 | 13.9 | 14.5 | 22.5 | 20.6 | 21.5 | 25.0 | 24.3 | 24.6 |
| 30 | --- | --- | --- | 15.5 | 14.5 | 15.0 | 22.3 | 20.9 | 21.6 | 25.0 | 24.5 | 24.7 |
| 31 | --- | --- | --- | 16.0 | 15.3 | 15.6 | --- | --- | --- | 25.3 | 24.5 | 24.8 |
| MONTH | 13.4 | 7.1 | 9.5 | 16.2 | 8.2 | 12.3 | 24.2 | 14.0 | 19.0 | 26.2 | 18.3 | 22.6 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 26.1 | 24.9 | 25.5 | 29.4 | 28.2 | 28.8 | 31.0 | 29.8 | 30.4 | 24.7 | 24.3 | 24.5 |
| 2 | 26.6 | 25.6 | 26.1 | 29.0 | 28.4 | 28.7 | 30.8 | 29.5 | 30.2 | 24.3 | 24.0 | 24.1 |
| 3 | 26.7 | 26.0 | 26.3 | 29.4 | 28.1 | 28.7 | 30.4 | 29.3 | 29.7 | 25.0 | 23.7 | 24.4 |
| 4 | 26.9 | 26.0 | 26.5 | 29.9 | 28.3 | 29.1 | 29.9 | 29.1 | 29.4 | 26.4 | 24.8 | 25.6 |
| 5 | 28.1 | 26.8 | 27.5 | 30.0 | 28.7 | 29.3 | 30.0 | 29.1 | 29.5 | 27.3 | 26.2 | 26.7 |
| 6 | 27.7 | 27.0 | 27.3 | 29.2 | 28.2 | 28.6 | 29.8 | 28.7 | 29.4 | 27.3 | 26.4 | 26.9 |
| 7 | 27.1 | 26.0 | 26.8 | 28.6 | 27.8 | 28.2 | 28.7 | 27.8 | 28.4 | 26.6 | 25.9 | 26.3 |
| 8 | 26.0 | 25.0 | 25.7 | 28.0 | 27.2 | 27.7 | 27.8 | 27.1 | 27.6 | 26.3 | 25.6 | 25.9 |
| 9 | 25.3 | 24.3 | 24.9 | 28.4 | 27.5 | 27.9 | 27.4 | 26.6 | 27.0 | 26.3 | 25.5 | 25.9 |
| 10 | 25.7 | 24.3 | 25.1 | 28.8 | 27.6 | 28.2 | 27.3 | 26.4 | 26.9 | 26.2 | 25.7 | 25.9 |
| 11 | 26.7 | 25.5 | 26.1 | 28.4 | 27.7 | 28.0 | 27.8 | 26.8 | 27.4 | 26.4 | 25.5 | 25.9 |
| 12 | 27.6 | 26.4 | 27.0 | 28.2 | 27.1 | 27.6 | 28.1 | 27.4 | 27.8 | 26.3 | 25.4 | 25.8 |
| 13 | 28.0 | 27.2 | 27.5 | 27.5 | 26.5 | 27.1 | 28.5 | 27.9 | 28.2 | 26.0 | 25.0 | 25.5 |
| 14 | 27.8 | 26.9 | 27.4 | 27.6 | 26.7 | 27.1 | 28.7 | 28.1 | 28.4 | 25.6 | 24.9 | 25.3 |
| 15 | 28.1 | 26.8 | 27.5 | 27.7 | 26.8 | 27.3 | 29.0 | 28.1 | 28.5 | 25.5 | 24.7 | 25.1 |
| 16 | 28.0 | 27.3 | 27.6 | 28.5 | 27.4 | 28.0 | 28.6 | 27.9 | 28.3 | 25.5 | 25.0 | 25.2 |
| 17 | 27.6 | 26.7 | 27.1 | 29.2 | 27.9 | 28.5 | 29.0 | 27.9 | 28.4 | 25.9 | 25.0 | 25.4 |
| 18 | 27.3 | 27.0 | 27.2 | 29.7 | 28.3 | 29.0 | 29.6 | 28.5 | 29.1 | 25.6 | 25.1 | 25.4 |
| 19 | 27.2 | 26.8 | 27.1 | 29.7 | 28.6 | 29.1 | 30.5 | 29.3 | 29.8 | 25.7 | 24.8 | 25.3 |
| 20 | 26.9 | 26.3 | 26.7 | 29.6 | 28.6 | 29.0 | 30.6 | 29.7 | 30.1 | 26.2 | 25.4 | 25.8 |
| 21 | 26.6 | 26.0 | 26.3 | 29.5 | 28.8 | 29.1 | 30.0 | 29.1 | 29.8 | 26.3 | 25.3 | 25.8 |
| 22 | 26.9 | 26.3 | 26.5 | 29.7 | 28.6 | 29.1 | 29.9 | 29.1 | 29.4 | 26.7 | 25.6 | 26.1 |
| 23 | 27.3 | 26.4 | 26.8 | 29.1 | 28.6 | 28.8 | 30.2 | 29.0 | 29.5 | 26.5 | 25.6 | 26.2 |
| 24 | 28.3 | 27.0 | 27.6 | 29.1 | 28.4 | 28.8 | 30.6 | 29.4 | 29.9 | 25.8 | 25.2 | 25.5 |
| 25 | 29.0 | 27.6 | 28.3 | 28.8 | 27.9 | 28.2 | 30.4 | 29.4 | 29.9 | 25.3 | 24.5 | 25.0 |
| 26 | 29.3 | 28.5 | 28.8 | 28.4 | 27.6 | 28.0 | 29.8 | 28.7 | 29.5 | 24.6 | 24.2 | 24.4 |
| 27 | 28.9 | 27.9 | 28.4 | 28.2 | 27.3 | 27.7 | 28.7 | 27.9 | 28.2 | 25.2 | 24.2 | 24.7 |
| 28 | 28.3 | 27.6 | 27.9 | 28.4 | 27.3 | 27.8 | 27.9 | 26.4 | 27.3 | 25.8 | 24.8 | 25.2 |
| 29 | 28.5 | 27.2 | 27.8 | 30.0 | 28.3 | 29.1 | 26.4 | 25.5 | 25.9 | 25.4 | 24.7 | 25.0 |
| 30 | 28.8 | 28.1 | 28.5 | 30.9 | 29.7 | 30.2 | 25.6 | 25.3 | 25.5 | 25.1 | 24.4 | 24.8 |
| 31 | --- | --- | --- | 30.9 | 30.1 | 30.5 | 25.3 | 24.6 | 25.0 | --- | --- | --- |
| MONTH | 29.3 | 24.3 | 27.0 | 30.9 | 26.5 | 28.5 | 31.0 | 24.6 | 28.5 | 27.3 | 23.7 | 25.5 |

OXYGEN DISSOLVED, (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|---------|-----|------|----------|-----|------|----------|------|------|---------|------|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | --- | --- | --- | 8.5 | 8.1 | 8.3 | 7.6 | 7.2 | 7.4 | 10.5 | 10.2 | 10.4 |
| 2 | --- | --- | --- | 8.5 | 7.9 | 8.3 | 7.8 | 7.4 | 7.6 | 10.9 | 10.5 | 10.7 |
| 3 | 7.9 | 7.6 | 7.8 | 8.2 | 7.8 | 8.1 | 8.0 | 7.6 | 7.8 | 11.2 | 10.8 | 11.0 |
| 4 | 8.0 | 7.5 | 7.8 | 8.0 | 7.8 | 7.9 | 8.1 | 7.7 | 7.9 | 11.8 | 11.2 | 11.5 |
| 5 | 7.6 | 7.1 | 7.4 | 8.1 | 7.8 | 8.0 | 8.2 | 7.8 | 8.0 | 12.0 | 11.7 | 11.9 |
| 6 | 7.5 | 7.1 | 7.2 | 8.4 | 8.0 | 8.2 | 8.5 | 7.9 | 8.2 | 12.0 | 11.6 | 11.8 |
| 7 | 7.4 | 7.1 | 7.3 | 8.6 | 8.2 | 8.5 | 8.3 | 7.8 | 8.0 | 11.7 | 11.5 | 11.6 |
| 8 | 7.7 | 7.1 | 7.4 | 8.7 | 8.2 | 8.5 | 8.1 | 7.6 | 7.9 | 11.8 | 11.6 | 11.7 |
| 9 | 7.9 | 7.5 | 7.8 | 8.5 | 8.1 | 8.3 | 8.0 | 7.6 | 7.8 | 11.8 | 11.6 | 11.7 |
| 10 | 8.1 | 7.8 | 8.0 | 8.4 | 8.1 | 8.3 | 8.2 | 7.6 | 7.9 | 11.9 | 11.6 | 11.7 |
| 11 | 8.1 | 7.7 | 7.8 | 8.6 | 8.2 | 8.4 | 8.3 | 7.9 | 8.1 | 11.9 | 11.6 | 11.7 |
| 12 | 7.8 | 7.3 | 7.5 | 8.6 | 8.3 | 8.4 | 8.5 | 8.0 | 8.3 | 11.8 | 11.3 | 11.6 |
| 13 | 7.6 | 7.1 | 7.4 | 8.7 | 8.4 | 8.5 | 8.4 | 7.8 | 8.1 | 11.6 | 11.3 | 11.4 |
| 14 | 7.3 | 7.0 | 7.2 | 8.8 | 8.3 | 8.6 | 8.0 | 7.6 | 7.8 | 11.6 | 11.3 | 11.5 |
| 15 | 7.2 | 6.8 | 7.0 | 8.7 | 8.3 | 8.5 | 8.0 | 7.5 | 7.7 | 11.8 | 11.2 | 11.5 |
| 16 | 7.2 | 6.8 | 7.0 | 8.6 | 8.1 | 8.3 | 8.1 | 7.6 | 7.9 | 11.8 | 11.2 | 11.5 |
| 17 | 7.5 | 7.2 | 7.3 | 8.4 | 7.9 | 8.2 | 8.5 | 7.8 | 8.2 | 11.6 | 11.0 | 11.4 |
| 18 | 8.0 | 7.4 | 7.7 | 8.3 | 8.0 | 8.1 | 8.8 | 8.1 | 8.4 | 11.4 | 11.0 | 11.2 |
| 19 | 7.9 | 7.5 | 7.7 | 8.3 | 7.9 | 8.1 | 8.4 | 8.1 | 8.2 | 11.4 | 11.0 | 11.2 |
| 20 | 7.8 | 7.5 | 7.7 | 8.4 | 7.9 | 8.1 | 8.4 | 8.1 | 8.2 | 11.4 | 10.9 | 11.1 |
| 21 | 7.8 | 7.5 | 7.6 | 8.4 | 8.0 | 8.2 | 8.8 | 8.2 | 8.6 | 11.2 | 10.8 | 11.0 |
| 22 | 7.7 | 7.2 | 7.5 | 8.6 | 8.2 | 8.4 | 9.1 | 8.8 | 9.0 | 11.0 | 10.7 | 10.8 |
| 23 | 7.5 | 7.1 | 7.3 | 8.6 | 8.2 | 8.4 | 9.4 | 9.0 | 9.2 | 11.2 | 10.8 | 11.0 |
| 24 | 7.4 | 7.0 | 7.1 | 8.8 | 8.2 | 8.5 | 9.5 | 9.1 | 9.3 | 11.0 | 10.5 | 10.8 |
| 25 | 7.5 | 6.9 | 7.3 | 8.5 | 7.9 | 8.2 | 9.4 | 9.1 | 9.3 | 10.8 | 10.2 | 10.6 |
| 26 | --- | --- | --- | 8.2 | 7.6 | 7.9 | 9.4 | 9.2 | 9.3 | 10.4 | 10.0 | 10.2 |
| 27 | --- | --- | --- | 7.8 | 7.4 | 7.6 | 9.7 | 9.2 | 9.5 | 10.3 | 10.0 | 10.2 |
| 28 | --- | --- | --- | 7.6 | 7.3 | 7.5 | 10.0 | 9.6 | 9.8 | 10.6 | 10.1 | 10.4 |
| 29 | --- | --- | --- | 7.6 | 7.3 | 7.5 | 10.2 | 9.7 | 10.0 | 10.7 | 10.3 | 10.5 |
| 30 | 8.8 | 8.4 | 8.6 | 7.6 | 7.2 | 7.4 | 10.3 | 10.0 | 10.1 | 10.5 | 9.7 | 10.1 |
| 31 | 8.8 | 8.4 | 8.5 | --- | --- | --- | 10.5 | 10.1 | 10.3 | 10.0 | 9.6 | 9.8 |
| MONTH | --- | --- | --- | 8.8 | 7.2 | 8.2 | 10.5 | 7.2 | 8.5 | 12.0 | 9.6 | 11.1 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

OXYGEN DISSOLVED, (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|------|------|-------|------|------|--------|-----|------|-----------|-----|------|
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 9.8 | 9.3 | 9.6 | 11.1 | 10.7 | 10.9 | 7.8 | 7.4 | 7.6 | 6.9 | 6.4 | 6.7 |
| 2 | 9.7 | 9.2 | 9.5 | 11.4 | 10.9 | 11.2 | 7.7 | 7.2 | 7.5 | 6.7 | 6.3 | 6.5 |
| 3 | 9.7 | 9.2 | 9.5 | 11.3 | 10.6 | 11.0 | 7.2 | 7.0 | 7.1 | 6.8 | 6.1 | 6.5 |
| 4 | 10.1 | 9.4 | 9.8 | 10.9 | 10.6 | 10.7 | 7.1 | 6.8 | 6.9 | 6.5 | 6.1 | 6.3 |
| 5 | 10.7 | 10.0 | 10.4 | 11.0 | 10.6 | 10.7 | 6.9 | 6.7 | 6.8 | 6.8 | 6.3 | 6.6 |
| 6 | 11.1 | 10.5 | 10.8 | 10.9 | 10.6 | 10.8 | 7.3 | 6.8 | 7.1 | 7.1 | 6.7 | 6.9 |
| 7 | 11.2 | 10.8 | 11.0 | 11.1 | 10.7 | 10.9 | 7.5 | 7.1 | 7.3 | 7.1 | 6.6 | 6.8 |
| 8 | 11.2 | 10.7 | 10.9 | 10.9 | 10.1 | 10.6 | 7.8 | 7.4 | 7.7 | 6.7 | 6.1 | 6.5 |
| 9 | 10.9 | 10.6 | 10.8 | 10.6 | 9.8 | 10.2 | --- | --- | --- | 6.3 | 5.7 | 6.0 |
| 10 | 10.8 | 10.3 | 10.6 | 10.2 | 9.6 | 9.9 | 7.8 | 7.4 | 7.6 | 5.9 | 5.4 | 5.6 |
| 11 | 10.8 | 10.3 | 10.5 | 10.1 | 9.7 | 9.8 | 7.7 | 7.3 | 7.5 | 5.9 | 5.4 | 5.6 |
| 12 | 11.1 | 10.4 | 10.6 | 10.0 | 9.7 | 9.9 | 7.6 | 7.3 | 7.4 | 6.1 | 5.5 | 5.8 |
| 13 | 10.9 | 10.1 | 10.5 | 10.3 | 9.8 | 10.1 | 7.5 | 7.1 | 7.3 | 6.1 | 5.7 | 6.0 |
| 14 | 10.5 | 10.1 | 10.3 | 10.3 | 9.2 | 9.8 | 7.5 | 7.0 | 7.3 | 6.6 | 6.1 | 6.3 |
| 15 | 10.6 | 10.1 | 10.3 | 9.3 | 8.7 | 9.1 | 7.4 | 6.8 | 7.1 | 6.6 | 6.3 | 6.5 |
| 16 | 10.3 | 10.0 | 10.2 | 8.8 | 8.3 | 8.6 | 7.4 | 6.7 | 6.9 | 6.7 | 6.2 | 6.5 |
| 17 | 10.3 | 10.0 | 10.1 | 8.4 | 8.0 | 8.3 | 7.0 | 6.5 | 6.7 | 6.6 | 6.2 | 6.4 |
| 18 | 10.5 | 10.1 | 10.3 | 8.3 | 7.9 | 8.1 | 6.8 | 6.3 | 6.6 | 6.5 | 6.0 | 6.2 |
| 19 | 10.7 | 10.1 | 10.5 | 8.4 | 7.9 | 8.2 | 6.7 | 6.2 | 6.5 | 6.5 | 6.1 | 6.3 |
| 20 | 10.9 | 10.5 | 10.7 | 8.5 | 8.1 | 8.3 | 6.9 | 6.3 | 6.6 | 6.6 | 6.3 | 6.5 |
| 21 | 10.9 | 10.4 | 10.7 | 8.6 | 8.3 | 8.4 | 6.8 | 6.3 | 6.6 | 6.7 | 6.4 | 6.6 |
| 22 | 10.5 | 10.2 | 10.4 | 8.8 | 8.3 | 8.6 | 6.6 | 6.2 | 6.4 | 6.7 | 6.5 | 6.6 |
| 23 | 10.4 | 10.2 | 10.3 | 8.9 | 8.5 | 8.7 | 6.8 | 6.3 | 6.6 | 6.7 | 6.5 | 6.6 |
| 24 | 10.8 | 10.3 | 10.6 | 9.0 | 8.6 | 8.8 | 7.1 | 6.5 | 6.9 | 6.7 | 6.3 | 6.5 |
| 25 | 11.0 | 10.6 | 10.8 | 9.0 | 8.5 | 8.7 | 7.4 | 7.0 | 7.2 | 6.6 | 6.0 | 6.3 |
| 26 | 11.1 | 10.7 | 10.9 | 8.7 | 8.0 | 8.4 | 7.4 | 6.8 | 7.1 | 6.6 | 6.3 | 6.4 |
| 27 | 11.0 | 10.6 | 10.8 | 8.4 | 7.7 | 8.0 | 7.3 | 6.7 | 7.0 | 6.4 | 6.1 | 6.3 |
| 28 | 11.0 | 10.6 | 10.8 | 8.3 | 7.7 | 7.9 | 7.2 | 6.8 | 6.9 | 6.3 | 6.1 | 6.2 |
| 29 | --- | --- | --- | 8.1 | 7.6 | 7.9 | 7.3 | 6.8 | 7.0 | 6.4 | 6.1 | 6.3 |
| 30 | --- | --- | --- | 8.0 | 7.5 | 7.8 | 7.4 | 6.8 | 7.0 | 6.6 | 6.0 | 6.2 |
| 31 | --- | --- | --- | 7.8 | 7.4 | 7.6 | --- | --- | --- | 6.2 | 5.9 | 6.0 |
| MONTH | 11.2 | 9.2 | 10.4 | 11.4 | 7.4 | 9.3 | --- | --- | --- | 7.1 | 5.4 | 6.3 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 6.0 | 5.7 | 5.9 | 7.4 | 6.0 | 6.6 | 6.5 | 5.7 | 6.0 | 6.1 | 5.7 | 5.8 |
| 2 | 5.8 | 5.3 | 5.6 | 7.6 | 6.2 | 6.9 | 6.7 | 5.7 | 6.2 | 5.7 | 5.5 | 5.6 |
| 3 | 5.5 | 5.1 | 5.3 | 6.4 | 5.7 | 6.0 | 6.4 | 5.7 | 6.1 | 5.8 | 5.6 | 5.7 |
| 4 | 5.4 | 5.0 | 5.3 | 6.2 | 5.6 | 5.9 | 6.6 | 5.9 | 6.2 | 5.9 | 5.6 | 5.8 |
| 5 | 5.2 | 4.7 | 5.0 | 6.3 | 5.7 | 5.9 | 6.7 | 6.1 | 6.4 | 6.0 | 5.6 | 5.8 |
| 6 | 5.1 | 4.6 | 4.8 | 6.1 | 5.6 | 5.9 | 6.7 | 6.1 | 6.4 | 6.3 | 5.8 | 6.1 |
| 7 | 4.9 | 4.5 | 4.7 | 6.3 | 5.7 | 6.0 | 6.5 | 6.0 | 6.2 | 6.4 | 6.0 | 6.2 |
| 8 | 5.0 | 4.5 | 4.7 | 6.7 | 6.0 | 6.3 | 6.4 | 6.1 | 6.2 | 6.4 | 6.1 | 6.2 |
| 9 | 4.8 | 4.1 | 4.4 | 6.6 | 6.0 | 6.3 | 6.4 | 6.0 | 6.2 | 6.4 | 6.1 | 6.2 |
| 10 | 4.9 | 4.5 | 4.7 | 6.6 | 5.8 | 6.1 | 6.4 | 6.0 | 6.2 | 6.3 | 6.1 | 6.2 |
| 11 | 5.1 | 4.7 | 4.9 | 6.1 | 5.4 | 5.7 | 6.4 | 5.9 | 6.2 | 6.4 | 6.0 | 6.2 |
| 12 | 5.5 | 4.6 | 5.0 | 6.3 | 5.7 | 6.1 | 6.4 | 5.8 | 6.1 | 6.4 | 6.0 | 6.2 |
| 13 | 5.9 | 4.9 | 5.2 | 7.0 | 6.0 | 6.4 | 6.5 | 5.9 | 6.2 | 6.6 | 6.1 | 6.3 |
| 14 | 5.7 | 5.1 | 5.4 | 6.9 | 6.3 | 6.6 | 6.9 | 6.0 | 6.4 | 6.6 | 6.1 | 6.3 |
| 15 | 5.7 | 5.0 | 5.4 | 7.4 | 6.5 | 7.0 | 7.1 | 6.4 | 6.7 | 6.5 | 6.1 | 6.3 |
| 16 | 5.8 | 5.1 | 5.5 | 7.4 | 6.8 | 7.1 | 7.1 | 6.6 | 6.8 | 6.7 | 6.1 | 6.4 |
| 17 | 6.0 | 5.2 | 5.6 | 7.6 | 6.7 | 7.0 | 7.1 | 6.7 | 6.9 | 6.7 | 6.2 | 6.4 |
| 18 | 6.2 | 5.3 | 5.7 | 7.2 | 6.5 | 6.8 | 7.0 | 6.5 | 6.7 | 6.5 | 5.9 | 6.2 |
| 19 | 6.8 | 5.2 | 6.0 | 6.6 | 5.9 | 6.2 | 6.8 | 6.3 | 6.6 | 6.4 | 6.0 | 6.2 |
| 20 | 7.0 | 6.0 | 6.4 | 6.1 | 5.3 | 5.6 | 7.2 | 6.3 | 6.7 | 6.5 | 6.1 | 6.3 |
| 21 | 7.2 | 6.3 | 6.7 | 5.5 | 5.0 | 5.3 | 7.1 | 6.4 | 6.7 | 6.5 | 6.0 | 6.3 |
| 22 | 7.0 | 6.3 | 6.7 | 5.7 | 5.1 | 5.4 | 6.9 | 6.1 | 6.5 | 6.5 | 6.1 | 6.3 |
| 23 | 6.9 | 6.0 | 6.4 | 6.0 | 5.4 | 5.7 | 7.0 | 6.3 | 6.6 | 6.5 | 6.0 | 6.3 |
| 24 | 7.4 | 6.2 | 6.8 | 6.0 | 5.5 | 5.7 | 6.7 | 6.0 | 6.4 | 6.6 | 6.1 | 6.3 |
| 25 | 8.0 | 6.5 | 7.2 | 5.9 | 5.4 | 5.7 | 6.4 | 5.8 | 6.1 | 6.6 | 6.3 | 6.4 |
| 26 | 7.8 | 6.5 | 7.1 | 6.0 | 5.5 | 5.7 | 6.0 | 5.5 | 5.7 | 6.6 | 6.2 | 6.4 |
| 27 | 7.4 | 6.3 | 6.8 | 6.0 | 5.5 | 5.7 | 5.7 | 5.4 | 5.6 | 6.8 | 6.2 | 6.5 |
| 28 | 6.9 | 6.1 | 6.5 | 6.2 | 5.6 | 5.8 | 5.9 | 5.5 | 5.6 | 6.6 | 6.0 | 6.3 |
| 29 | 7.3 | 6.0 | 6.5 | 6.5 | 5.7 | 6.1 | 5.8 | 5.4 | 5.6 | 6.5 | 6.0 | 6.2 |
| 30 | 7.2 | 5.8 | 6.5 | 6.5 | 5.8 | 6.2 | 5.7 | 5.4 | 5.5 | 6.6 | 6.2 | 6.4 |
| 31 | --- | --- | --- | 6.0 | 5.4 | 5.8 | 5.7 | 5.5 | 5.6 | --- | --- | --- |
| MONTH | 8.0 | 4.1 | 5.8 | 7.6 | 5.0 | 6.1 | 7.2 | 5.4 | 6.2 | 6.8 | 5.5 | 6.2 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | --- | --- | --- | 85 | 82 | 84 | 79 | 74 | 76 | 87 | 84 | 85 |
| 2 | --- | --- | --- | 87 | 80 | 85 | 79 | 75 | 77 | 88 | 86 | 87 |
| 3 | 89 | 84 | 86 | 86 | 82 | 84 | 79 | 75 | 77 | 87 | 85 | 86 |
| 4 | 89 | 86 | 88 | 85 | 81 | 83 | 79 | 75 | 77 | 89 | 85 | 87 |
| 5 | 87 | 80 | 84 | 84 | 81 | 82 | 79 | 75 | 77 | 91 | 88 | 89 |
| 6 | 85 | 79 | 82 | 83 | 80 | 82 | 81 | 75 | 78 | 91 | 89 | 90 |
| 7 | 83 | 78 | 81 | 83 | 81 | 82 | 81 | 76 | 78 | 92 | 89 | 90 |
| 8 | 84 | 78 | 81 | 83 | 80 | 82 | 80 | 76 | 78 | 91 | 89 | 90 |
| 9 | 84 | 80 | 82 | 83 | 80 | 81 | 79 | 75 | 77 | 91 | 89 | 90 |
| 10 | 86 | 82 | 85 | 82 | 79 | 81 | 79 | 75 | 77 | 93 | 90 | 91 |
| 11 | 86 | 82 | 84 | 84 | 80 | 82 | 80 | 76 | 78 | 96 | 91 | 93 |
| 12 | 84 | 80 | 82 | 83 | 80 | 81 | 81 | 77 | 79 | 95 | 92 | 93 |
| 13 | 84 | 79 | 81 | 83 | 80 | 81 | 80 | 75 | 78 | 94 | 92 | 93 |
| 14 | 82 | 78 | 80 | 84 | 79 | 82 | 78 | 74 | 76 | 94 | 91 | 93 |
| 15 | 81 | 76 | 78 | 83 | 79 | 81 | 78 | 74 | 76 | 96 | 91 | 93 |
| 16 | 79 | 76 | 78 | 82 | 78 | 80 | 78 | 74 | 76 | 96 | 91 | 93 |
| 17 | 81 | 77 | 79 | 82 | 77 | 79 | 80 | 75 | 78 | 95 | 90 | 93 |
| 18 | 85 | 78 | 81 | 81 | 77 | 79 | 83 | 76 | 79 | 94 | 90 | 92 |
| 19 | 82 | 79 | 80 | 81 | 77 | 79 | 79 | 76 | 77 | 93 | 90 | 92 |
| 20 | 83 | 79 | 81 | 82 | 77 | 79 | 78 | 75 | 76 | 92 | 89 | 90 |
| 21 | 83 | 79 | 81 | 80 | 77 | 78 | 79 | 75 | 77 | 91 | 87 | 89 |
| 22 | 84 | 78 | 82 | 80 | 77 | 78 | 80 | 77 | 78 | 88 | 85 | 87 |
| 23 | 83 | 78 | 80 | 80 | 76 | 78 | 82 | 78 | 80 | 90 | 88 | 89 |
| 24 | 82 | 78 | 79 | 82 | 78 | 80 | 83 | 80 | 82 | 91 | 88 | 90 |
| 25 | 84 | 77 | 82 | 81 | 78 | 79 | 83 | 80 | 81 | 93 | 88 | 91 |
| 26 | --- | --- | --- | 81 | 76 | 79 | 83 | 80 | 81 | 89 | 86 | 87 |
| 27 | --- | --- | --- | 78 | 75 | 76 | 83 | 80 | 81 | 89 | 86 | 87 |
| 28 | --- | --- | --- | 78 | 75 | 76 | 84 | 81 | 82 | 91 | 86 | 89 |
| 29 | --- | --- | --- | 78 | 75 | 76 | 85 | 81 | 84 | 93 | 89 | 91 |
| 30 | 85 | 83 | 84 | 79 | 74 | 76 | 86 | 83 | 84 | 93 | 89 | 91 |
| 31 | 86 | 83 | 84 | --- | --- | --- | 87 | 83 | 85 | 93 | 89 | 91 |
| MONTH | --- | --- | --- | 87 | 74 | 80 | 87 | 74 | 79 | 96 | 84 | 90 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 93 | 89 | 91 | 97 | 93 | 95 | 79 | 75 | 77 | 79 | 73 | 76 |
| 2 | 92 | 86 | 90 | 98 | 94 | 96 | 77 | 72 | 75 | 78 | 73 | 75 |
| 3 | 90 | 86 | 87 | 98 | 94 | 96 | 74 | 71 | 72 | 79 | 71 | 75 |
| 4 | 89 | 85 | 87 | 97 | 93 | 95 | 73 | 71 | 72 | 73 | 70 | 71 |
| 5 | 90 | 86 | 88 | 95 | 91 | 93 | 71 | 70 | 71 | 74 | 70 | 72 |
| 6 | 92 | 88 | 90 | 95 | 91 | 93 | 73 | 70 | 72 | 78 | 72 | 75 |
| 7 | 93 | 90 | 91 | 98 | 93 | 95 | 74 | 70 | 73 | 80 | 74 | 77 |
| 8 | 94 | 90 | 92 | 97 | 92 | 95 | 78 | 73 | 76 | 78 | 72 | 76 |
| 9 | 94 | 90 | 92 | 97 | 92 | 95 | --- | --- | --- | 75 | 69 | 72 |
| 10 | 94 | 90 | 92 | 97 | 92 | 94 | 80 | 77 | 79 | 72 | 66 | 68 |
| 11 | 94 | 90 | 92 | 95 | 91 | 93 | 81 | 76 | 78 | 71 | 66 | 68 |
| 12 | 97 | 90 | 92 | 93 | 90 | 91 | 81 | 76 | 78 | 73 | 65 | 69 |
| 13 | 95 | 87 | 91 | 94 | 90 | 92 | 80 | 76 | 78 | 74 | 68 | 71 |
| 14 | 91 | 87 | 89 | 95 | 83 | 90 | 82 | 76 | 79 | 78 | 72 | 75 |
| 15 | 91 | 87 | 89 | 90 | 84 | 87 | 81 | 76 | 78 | 78 | 73 | 76 |
| 16 | 90 | 87 | 89 | 88 | 83 | 85 | 82 | 75 | 78 | 79 | 72 | 75 |
| 17 | 90 | 87 | 89 | 84 | 79 | 83 | 80 | 75 | 78 | 76 | 72 | 74 |
| 18 | 91 | 87 | 89 | 82 | 76 | 79 | 80 | 74 | 77 | 76 | 70 | 73 |
| 19 | 92 | 87 | 90 | 80 | 76 | 78 | 80 | 73 | 76 | 74 | 70 | 72 |
| 20 | 95 | 90 | 93 | 81 | 77 | 79 | 81 | 74 | 76 | 74 | 70 | 72 |
| 21 | 98 | 94 | 95 | 82 | 79 | 80 | 78 | 72 | 76 | 75 | 71 | 73 |
| 22 | 97 | 93 | 94 | 83 | 78 | 80 | 75 | 70 | 73 | 75 | 72 | 73 |
| 23 | 94 | 92 | 93 | 83 | 79 | 81 | 76 | 70 | 73 | 74 | 71 | 73 |
| 24 | 96 | 91 | 94 | 84 | 80 | 82 | 78 | 71 | 75 | 74 | 71 | 73 |
| 25 | 96 | 93 | 95 | 86 | 81 | 83 | 80 | 76 | 78 | 77 | 70 | 73 |
| 26 | 99 | 94 | 96 | 85 | 80 | 83 | 82 | 75 | 78 | 78 | 74 | 76 |
| 27 | 99 | 94 | 97 | 85 | 77 | 81 | 82 | 74 | 77 | 77 | 73 | 75 |
| 28 | 97 | 93 | 95 | 83 | 76 | 79 | 80 | 74 | 77 | 76 | 73 | 75 |
| 29 | --- | --- | --- | 80 | 75 | 77 | 84 | 77 | 80 | 78 | 73 | 76 |
| 30 | --- | --- | --- | 79 | 75 | 77 | 85 | 76 | 79 | 79 | 72 | 75 |
| 31 | --- | --- | --- | 78 | 75 | 77 | --- | --- | --- | 74 | 71 | 73 |
| MONTH | 99 | 85 | 92 | 98 | 75 | 87 | --- | --- | --- | 80 | 65 | 73 |

ROANOKE RIVER BASIN

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
| | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| 1 | 74 | 70 | 72 | 97 | 77 | 86 | 87 | 75 | 81 | 73 | 68 | 70 |
| 2 | 72 | 66 | 69 | 100 | 80 | 89 | 90 | 75 | 83 | 68 | 65 | 67 |
| 3 | 69 | 64 | 66 | 83 | 74 | 78 | 85 | 75 | 81 | 70 | 66 | 68 |
| 4 | 68 | 63 | 66 | 82 | 73 | 77 | 87 | 77 | 82 | 73 | 68 | 71 |
| 5 | 67 | 59 | 63 | 82 | 75 | 78 | 89 | 79 | 84 | 76 | 70 | 73 |
| 6 | 65 | 58 | 61 | 80 | 72 | 76 | 89 | 80 | 84 | 80 | 72 | 77 |
| 7 | 62 | 57 | 59 | 82 | 72 | 77 | 84 | 77 | 81 | 81 | 75 | 78 |
| 8 | 61 | 55 | 58 | 86 | 76 | 81 | 81 | 77 | 79 | 79 | 75 | 77 |
| 9 | 59 | 49 | 53 | 85 | 77 | 81 | 81 | 75 | 78 | 79 | 74 | 77 |
| 10 | 60 | 54 | 57 | 85 | 74 | 78 | 81 | 75 | 78 | 78 | 75 | 77 |
| 11 | 63 | 57 | 61 | 78 | 69 | 73 | 82 | 74 | 78 | 79 | 74 | 76 |
| 12 | 70 | 58 | 63 | 81 | 72 | 77 | 82 | 73 | 78 | 79 | 74 | 76 |
| 13 | 74 | 62 | 66 | 89 | 75 | 81 | 84 | 75 | 79 | 81 | 74 | 77 |
| 14 | 72 | 65 | 68 | 87 | 79 | 83 | 89 | 77 | 82 | 80 | 74 | 77 |
| 15 | 74 | 63 | 68 | 94 | 83 | 89 | 92 | 82 | 87 | 80 | 75 | 77 |
| 16 | 74 | 65 | 70 | 96 | 87 | 91 | 92 | 85 | 88 | 82 | 74 | 78 |
| 17 | 76 | 66 | 71 | 100 | 86 | 91 | 93 | 86 | 89 | 81 | 76 | 78 |
| 18 | 78 | 66 | 72 | 94 | 84 | 89 | 93 | 84 | 87 | 80 | 72 | 76 |
| 19 | 86 | 65 | 75 | 85 | 78 | 82 | 91 | 83 | 87 | 79 | 73 | 76 |
| 20 | 87 | 75 | 81 | 80 | 69 | 73 | 96 | 83 | 89 | 80 | 75 | 78 |
| 21 | 90 | 78 | 84 | 73 | 65 | 69 | 94 | 85 | 89 | 81 | 74 | 77 |
| 22 | 88 | 78 | 83 | 76 | 66 | 71 | 92 | 80 | 85 | 81 | 75 | 78 |
| 23 | 87 | 75 | 81 | 78 | 70 | 74 | 94 | 82 | 86 | 81 | 74 | 78 |
| 24 | 95 | 78 | 86 | 79 | 70 | 74 | 90 | 80 | 84 | 81 | 74 | 77 |
| 25 | 104 | 83 | 93 | 76 | 69 | 73 | 86 | 76 | 81 | 81 | 76 | 78 |
| 26 | 102 | 84 | 92 | 78 | 70 | 73 | 80 | 72 | 75 | 79 | 74 | 77 |
| 27 | 96 | 82 | 88 | 78 | 69 | 73 | 74 | 70 | 72 | 81 | 75 | 78 |
| 28 | 89 | 78 | 83 | 79 | 71 | 74 | 75 | 69 | 72 | 80 | 73 | 77 |
| 29 | 95 | 76 | 84 | 86 | 73 | 80 | 72 | 66 | 69 | 80 | 72 | 75 |
| 30 | 94 | 75 | 84 | 86 | 78 | 82 | 69 | 66 | 67 | 80 | 74 | 77 |
| 31 | --- | --- | --- | 81 | 72 | 77 | 70 | 66 | 68 | --- | --- | --- |
| MONTH | 104 | 49 | 73 | 100 | 65 | 79 | 96 | 66 | 81 | 82 | 65 | 76 |