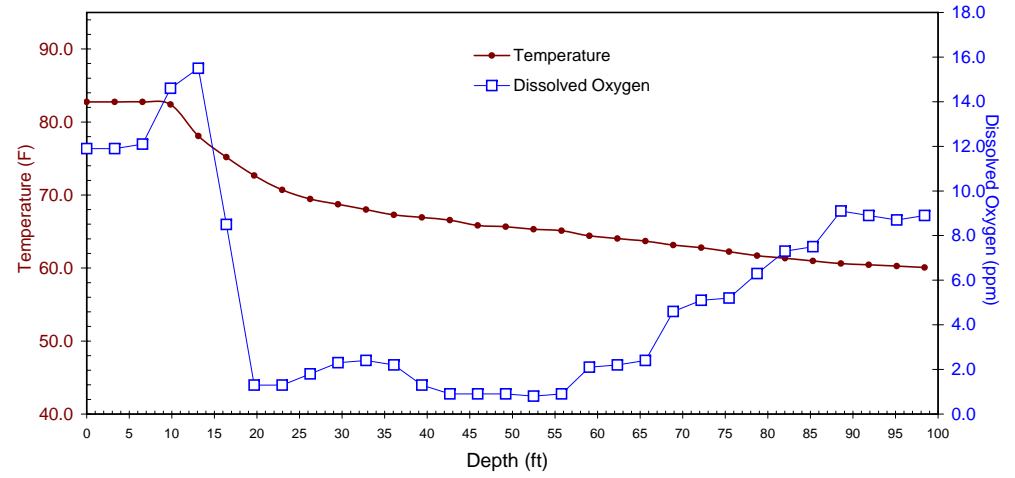


| Depth (m) | Temp (C) | Cond | PH | DO | Site | Secchi (m) | Time | Date | Reservoir | Depth (ft) | Temp (F) | DO |
|-----------|----------|------|-----|------|------|------------|-------|----------|-----------|------------|----------|------|
| 0 | 28.2 | 172 | 7.5 | 11.9 | H19 | 2.1 | 11:30 | 08/09/11 | Boone | 0 | 82.8 | 11.9 |
| 1 | 28.2 | 172 | 7.6 | 11.9 | | | | | | 3 | 82.8 | 11.9 |
| 2 | 28.2 | 172 | 7.8 | 12.1 | | | | | | 7 | 82.8 | 12.1 |
| 3 | 28.0 | 171 | 7.9 | 14.6 | | | | | | 10 | 82.4 | 14.6 |
| 4 | 25.6 | 174 | 8.3 | 15.5 | | | | | | 13 | 78.1 | 15.5 |
| 5 | 24.0 | 180 | 8.1 | 8.5 | | | | | | 16 | 75.2 | 8.5 |
| 6 | 22.6 | 194 | 7.8 | 1.3 | | | | | | 20 | 72.7 | 1.3 |
| 7 | 21.5 | 181 | 7.7 | 1.3 | | | | | | 23 | 70.7 | 1.3 |
| 8 | 20.8 | 172 | 7.8 | 1.8 | | | | | | 26 | 69.4 | 1.8 |
| 9 | 20.4 | 167 | 7.7 | 2.3 | | | | | | 30 | 68.7 | 2.3 |
| 10 | 20.0 | 164 | 7.7 | 2.4 | | | | | | 33 | 68.0 | 2.4 |
| 11 | 19.6 | 161 | 7.7 | 2.2 | | | | | | 36 | 67.3 | 2.2 |
| 12 | 19.4 | 163 | 7.6 | 1.3 | | | | | | 39 | 66.9 | 1.3 |
| 13 | 19.2 | 168 | 7.6 | 0.9 | | | | | | 43 | 66.6 | 0.9 |
| 14 | 18.8 | 173 | 7.5 | 0.9 | | | | | | 46 | 65.8 | 0.9 |
| 15 | 18.7 | 202 | 7.5 | 0.9 | | | | | | 49 | 65.7 | 0.9 |
| 16 | 18.5 | 203 | 7.5 | 0.8 | | | | | | 52 | 65.3 | 0.8 |
| 17 | 18.4 | 213 | 7.5 | 0.9 | | | | | | 56 | 65.1 | 0.9 |
| 18 | 18.0 | 205 | 7.5 | 2.1 | | | | | | 59 | 64.4 | 2.1 |
| 19 | 17.8 | 194 | 7.5 | 2.2 | | | | | | 62 | 64.0 | 2.2 |
| 20 | 17.6 | 189 | 7.5 | 2.4 | | | | | | 66 | 63.7 | 2.4 |
| 21 | 17.3 | 209 | 7.5 | 4.6 | | | | | | 69 | 63.1 | 4.6 |
| 22 | 17.1 | 208 | 7.6 | 5.1 | | | | | | 72 | 62.8 | 5.1 |
| 23 | 16.8 | 204 | 7.5 | 5.2 | | | | | | 75 | 62.2 | 5.2 |
| 24 | 16.5 | 206 | 7.5 | 6.3 | | | | | | 79 | 61.7 | 6.3 |
| 25 | 16.3 | 206 | 7.6 | 7.3 | | | | | | 82 | 61.3 | 7.3 |
| 26 | 16.1 | 206 | 7.6 | 7.5 | | | | | | 85 | 61.0 | 7.5 |
| 27 | 15.9 | 205 | 7.6 | 9.1 | | | | | | 89 | 60.6 | 9.1 |
| 28 | 15.8 | 205 | 7.6 | 8.9 | | | | | | 92 | 60.4 | 8.9 |
| 29 | 15.7 | 205 | 7.6 | 8.7 | | | | | | 95 | 60.3 | 8.7 |
| 30 | 15.6 | 205 | 7.6 | 8.9 | 98 | 60.1 | 8.9 | | | | | |

Measurements taken in the main channel just upstream of the dam

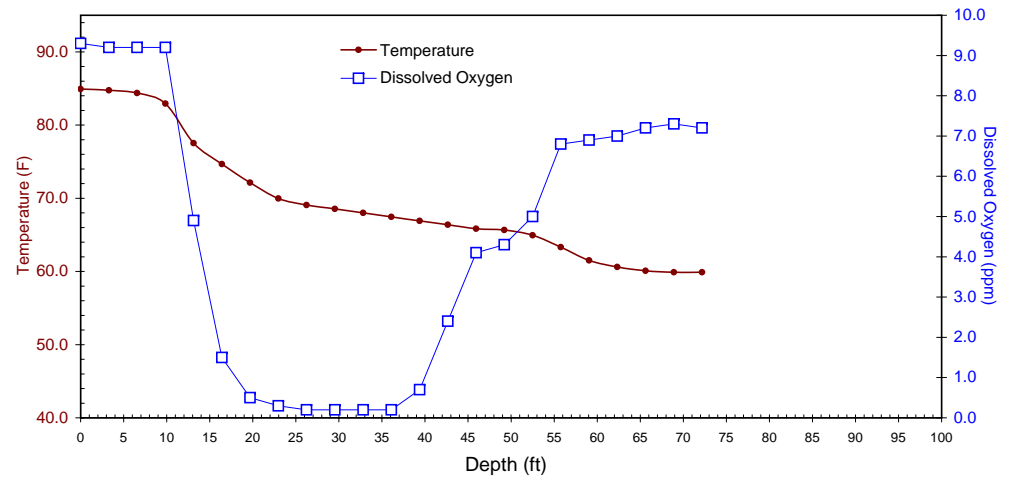
Boone Reservoir Water Quality at Holston River Mile 19 - August 9, 2011



| Depth (m) | Temp (C) | Cond | PH | DO | Site | Secchi (m) | Time | Date | Reservoir | Depth (ft) | Temp (F) | DO |
|-----------|----------|------|-----|-----|--------|------------|-------|----------|-----------|------------|----------|-----|
| 0 | 29.4 | 214 | 8.5 | 9.3 | H26 | 1.6 | 13:25 | 08/09/11 | Boone | 0 | 84.9 | 9.3 |
| 1 | 29.3 | 214 | 8.6 | 9.2 | | | | | | 3 | 84.7 | 9.2 |
| 2 | 29.1 | 216 | 8.6 | 9.2 | | | | | | 7 | 84.4 | 9.2 |
| 3 | 28.3 | 241 | 8.5 | 9.2 | | | | | | 10 | 82.9 | 9.2 |
| 4 | 25.3 | 267 | 8.1 | 4.9 | | | | | | 13 | 77.5 | 4.9 |
| 5 | 23.7 | 259 | 7.9 | 1.5 | | | | | | 16 | 74.7 | 1.5 |
| 6 | 22.3 | 234 | 7.9 | 0.5 | | | | | | 20 | 72.1 | 0.5 |
| 7 | 21.1 | 197 | 7.9 | 0.3 | | | | | | 23 | 70.0 | 0.3 |
| 8 | 20.6 | 193 | 7.8 | 0.2 | | | | | | 26 | 69.1 | 0.2 |
| 9 | 20.3 | 198 | 7.9 | 0.2 | | | | | | 30 | 68.5 | 0.2 |
| 10 | 20.0 | 205 | 7.9 | 0.2 | | | | | | 33 | 68.0 | 0.2 |
| 11 | 19.7 | 224 | 7.8 | 0.2 | | | | | | 36 | 67.5 | 0.2 |
| 12 | 19.4 | 232 | 7.7 | 0.7 | | | | | | 39 | 66.9 | 0.7 |
| 13 | 19.1 | 230 | 7.8 | 2.4 | | | | | | 43 | 66.4 | 2.4 |
| 14 | 18.8 | 225 | 7.8 | 4.1 | | | | | | 46 | 65.8 | 4.1 |
| 15 | 18.7 | 222 | 7.8 | 4.3 | | | | | | 49 | 65.7 | 4.3 |
| 16 | 18.3 | 217 | 7.8 | 5.0 | | | | | | 52 | 64.9 | 5.0 |
| 17 | 17.4 | 208 | 7.9 | 6.8 | | | | | | 56 | 63.3 | 6.8 |
| 18 | 16.4 | 203 | 7.9 | 6.9 | | | | | | 59 | 61.5 | 6.9 |
| 19 | 15.9 | 201 | 7.9 | 7.0 | | | | | | 62 | 60.6 | 7.0 |
| 20 | 15.6 | 200 | 8.0 | 7.2 | | | | | | 66 | 60.1 | 7.2 |
| 21 | 15.5 | 199 | 8.0 | 7.3 | | | | | | 69 | 59.9 | 7.3 |
| 22 | 15.5 | 199 | 8.0 | 7.2 | | | | | | 72 | 59.9 | 7.2 |
| 23 | Bottom | | | | Bottom | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |

Measurements taken in the main channel near Devault Bridge

Boone Reservoir Water Quality at Holston River Mile 26 - August 9, 2011



| Depth (m) | Temp (C) | Cond | PH | DO | Site | Secchi (m) | Time | Date | Reservoir | Depth (ft) | Temp (F) | DO |
|-----------|----------|------|-----|------|------|------------|-------|----------|-----------|------------|----------|------|
| 0 | 29.3 | 154 | 8.9 | 17.0 | W6 | 1.1 | 12:30 | 08/09/11 | Boone | 0 | 84.7 | 17.0 |
| 1 | 29.3 | 154 | 9.1 | 15.9 | | | | | | 3 | 84.7 | 15.9 |
| 2 | 29.2 | 154 | 9.2 | 15.2 | | | | | | 7 | 84.6 | 15.2 |
| 3 | 28.2 | 161 | 9.1 | 15.1 | | | | | | 10 | 82.8 | 15.1 |
| 4 | 27.0 | 173 | 8.8 | 13.4 | | | | | | 13 | 80.6 | 13.4 |
| 5 | 24.3 | 160 | 8.4 | 8.2 | | | | | | 16 | 75.7 | 8.2 |
| 6 | 22.8 | 155 | 8.3 | 8.1 | | | | | | 20 | 73.0 | 8.1 |
| 7 | 21.8 | 151 | 8.2 | 8.1 | | | | | | 23 | 71.2 | 8.1 |
| 8 | 20.8 | 146 | 8.0 | 8.4 | | | | | | 26 | 69.4 | 8.4 |
| 9 | 20.5 | 144 | 7.9 | 8.4 | | | | | | 30 | 68.9 | 8.4 |
| 10 | 19.5 | 141 | 8.0 | 8.9 | | | | | | 33 | 67.1 | 8.9 |
| 11 | 19.5 | 138 | 8.0 | 9.1 | | | | | | 36 | 67.1 | 9.1 |
| 12 | 19.2 | 136 | 8.0 | 9.1 | | | | | | 39 | 66.6 | 9.1 |
| 13 | 18.9 | 135 | 7.9 | 8.5 | | | | | | 43 | 66.0 | 8.5 |
| 14 | 18.5 | 133 | 7.9 | 7.6 | | | | | | 46 | 65.3 | 7.6 |
| 15 | 18.2 | 129 | 7.9 | 7.7 | | | | | | 49 | 64.8 | 7.7 |
| 16 | 17.8 | 129 | 7.8 | 6.5 | | | | | | 52 | 64.0 | 6.5 |
| 17 | 17.7 | 130 | 7.7 | 5.2 | | | | | | 56 | 63.9 | 5.2 |
| 18 | 17.5 | 130 | 7.7 | 5.0 | | | | | | 59 | 63.5 | 5.0 |
| 19 | 17.4 | 128 | 7.7 | 6.0 | | | | | | 62 | 63.3 | 6.0 |
| 20 | 17.3 | 127 | 7.7 | 7.1 | | | | | | 66 | 63.1 | 7.1 |
| 21 | 17.3 | 132 | 7.6 | 3.3 | | | | | | 69 | 63.1 | 3.3 |
| 22 | Bottom | | | | | | | | | Bottom | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |

Measurements taken in the main channel near Pickens Bridge

Boone Reservoir Water Quality at Watauga River Mile 6 - August 4, 2009

