

**Appendix A: TMDL Aquatic Life Use Attainment and
Assessment Unit Scores**

Blanchard River Watershed TMDLs

Table 1. Aquatic life use attainment status for stations sampled in the Blanchard River watershed based on data collected July-September, 2005. The Index of Biotic Integrity (IBI), Modified Index of well being (MIwb), and Invertebrate Community Index (ICI)

| River Mile Invertebrate/ Fish | MI ² | IBI | MIwb ^a | ICI ^b | QHEI | Attainment ^c | Causes ^d | Sores ^e |
|----------------------------------|-----------------|------------------|-------------------|------------------|------|-------------------------|---|--|
| Blanchard River | | | | | | | | |
| <i>WWH - ECBP Ecoregion</i> | | | | | | | | |
| 101.0/101.3 | 4.9 | 36 ^{ns} | | G | 32.0 | Full | | |
| 100.1/____ | 16.2 | | | G | | | | |
| 97.5/97.5 | 43 | 34* | 9.0 | 20* | 46.0 | NON | Direct habitat alteration, nutrients, flow alteration, ammonia | Ag related channelization, crop production streambank modification/destabilization |
| 96.0/95.6 | 61 | 30* | 7.3* | 16* | 46.0 | NON | Direct habitat alteration, organic enrichment/DO | Ag related channelization, crop production, combined sewer overflow (via Shallow Run/ Dunkirk) |
| 88.2/88.3 | 80 | 46 | 9.3 | 48 | 55.5 | Full | | |
| 82.1/82.1 | 91 | 34* | 8.4 | VG | 62.5 | Partial | Organic enrichment/DO, ammonia, nutrients | Source unknown (ammonia) via Ripley Run, crop production, minor municipal WWTP (Forest) |
| 75.8/75.6 | 142 | 38 ^{ns} | 7.2* | VG | 57.5 | Partial | Organic enrichment, nutrients | Crop production |
| 71.9/71.9 | 145 | 40 | 8.7 | VG | 51.0 | Full | | |
| 61.7/61.9 | 238 | 36 ^{ns} | 7.2* | 48 | 62.5 | Partial | Organic enrichment, nutrients, thermal modification | Crop production |
| 57.8/57.9 | 335 | 36* | 9.7 | 12* | 46.0 | NON | Thermal modification, organic enrichment/DO, development related direct habitat alteration, siltation | Dam construction, urban runoff, combined sewer overflows |
| 57.3/57.3 | 336 | 42 | 10.1 | 24* | 63.0 | Partial | Thermal modification, nutrients, organic enrichment/DO | Upstream impoundment, urban runoff, combined sewer overflows |
| 56.9/56.8 | 336 | 38 ^{ns} | 9.3 | 16* | 56.5 | Partial | Thermal modification, nutrients, development related direct habitat alteration | Upstream impoundment, urban runoff, combined sewer overflows, channelization |
| 55.2/54.7 | 346 | 36* | 7.6* | 42 | 54.5 | Partial | Nutrients, organic enrichment/DO, thermal modification | Upstream impoundment, major municipal point source (Findlay) |
| <i>WWH -HELP Ecoregion</i> | | | | | | | | |
| 49.8/49.8 | 378 | 38 | 9.7 | 46 | 61.5 | Full | | |
| 46.5/46.5 | 387 | 39 | 9.7 | 44 | 65.5 | Full | | |
| 41.3/41.3 | 459 | 38 | 9.2 | 46 | 51.0 | Full | | |
| 35.4/35.2 | 503 | 34 | 9.8 | 48 | 53.5 | Full | | |
| 28.9/27.7 | 624 | 38 | 9.7 | VG | 60.0 | Full | | |

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| River Mile Invertebrate/ Fish | MI ² | IBI | MIwb ^a | ICI ^b | QHEI | Attainment ^c | Causes ^d | Soures ^e |
|------------------------------------|-----------------|------------------|---|------------------|------|-------------------------|---|--|
| 22.5/23.0 | 627 | 36 | 9.1 | MG ^{ns} | 62.0 | Full | | |
| 21.7/21.1 | 638 | 34 | 9.1 | 42 | 51.0 | Full | | |
| 14.5/ 14.6 | 703 | 32 ^{ns} | 8.7 | 52 | 55.5 | Full | | |
| 8.6/9.1 | 744 | 35 | 9.6 | 46 | 59.0 | Full | | |
| 2.4/2.6 | 767 | 35 | 8.7 | 54 | 48.5 | Full | | |
| ___/0.2 | 771 | 32 ^{ns} | 9.1 | | 54.0 | (Full) | | |
| Trib. to Blanchard R. (RM 100.38) | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 0.7/0.7 | 7.4 | <u>26</u> | | <u>P</u> * | 34.5 | NON | Direct habitat alteration, temperature, nutrients Organic enrichment/DO | Ag related channelization, Crop production |
| Cessna Creek | | | <i>WWH recommended - ECBP Ecoregion</i> | | | | | |
| 5.6/ ___ | 3.6 | | | G | | | | |
| 3.1/3.1 | 13.9 | 40 | | G | 51.0 | Full | | |
| 0.5/0.5 | 23.1 | 32* | 8.6 | F* | 42.0 | NON | Direct habitat alteration | Ag related channelization |
| Shallow Run (Dunkirk) | | | <i>WWH - ECBP Ecoregion</i> | | | | | |
| 3.0/ ___ | 6.4 | | | <u>VP</u> * | | | Direct habitat alteration, flow alteration, organic enrichment/DO, nutrients | Ag related channelization, crop production combined sewer overflows |
| 0.9/ ___ | 10.8 | | | <u>P</u> * | | | Direct habitat alteration, flow alteration, organic enrichment/DO, temperature, nutrients | Ag related channelization, crop production combined sewer overflows (Dunkirk) |
| The Outlet (Blanchard R. RM 90.94) | | | <i>WWH recommended - ECBP Ecoregion</i> | | | | | |
| ___/3.6 | 9.5 | 34* | | | 52.5 | (NON) | Direct habitat alteration, flow alteration, nutrients | Ag related channelization, crop production |
| 0.3/0.3 | 12.4 | 38 ^{ns} | | MG ^{ns} | 55.5 | Full | | |
| Forest-Simpson Ditch | | | <i>WWH - ECBP Ecoregion</i> | | | | | |
| 0.8/0.8 | 0.9 | 28* | | <u>VP</u> * | 62.5 | NON | Ammonia, nutrients, organic enrichment/DO | Minor municipal point source (Forest) |
| Ripley Run | | | <i>WWH recommended - ECBP Ecoregion</i> | | | | | |
| 0.1/0.1 | 5.5 | <u>24</u> * | | MG ^{ns} | 50.0 | NON | Direct habitat alteration, ammonia | Ag related channelization, cause unknown (ammonia) |
| Trib. to Blanchard R. (RM 80.53) | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 1.8/1.8 | 6.7 | <u>22</u> * | | <u>VP</u> * | 33.5 | NON | Direct habitat alteration, temperature, nutrients, organic enrichment/DO | Ag related channelization, Crop production |
| Trib. to Blanchard R. (RM 79.75) | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 2.2/2.2 | 5.9 | <u>20</u> * | | HF | 40.0 | NON | Direct habitat alteration, temperature, nutrients, organic enrichment/DO | Ag related channelization, Crop production |

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| River Mile Invertebrate/ Fish | MI ² | IBI | MIwb ^a | ICI ^b | QHEI | Attainment ^c | Causes ^d | Soures ^e |
|------------------------------------|-----------------|-----|---|------------------|------|-------------------------|--|--|
| Rickenbach Ditch | | | <i>WWH - ECBP Ecoregion</i> | | | | | |
| 1.2/____ | 3.2 | | | P* | | | Direct habitat alteration, flow alteration, nutrients | Ag related channelization, crop production |
| Potato Run | | | <i>WWH - ECBP Ecoregion</i> | | | | | |
| 9.6/9.6 | 12.8 | 28* | | F* | 39.0 | NON | Direct habitat alteration, nutrients | Ag related channelization, crop production |
| ____/1.8 | 25 | 32* | 4.3* | | 63.5 | (NON) | Direct habitat alteration, nutrients | Ag related channelization, crop production |
| 0.1/____ | 28 | | | G | | | | |
| Buckrun Creek | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 3.6/____ | 6.1 | | | HF* | | | Direct habitat alteration, flow alteration, siltation | Ag related channelization, crop production |
| Stahl Ditch | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 7.3/____ | 6.6 | | | P* | | | Direct habitat alteration, flow alteration, siltation, nutrients, DO/ organic enrichment | Ag related channelization, crop production |
| 4.4/4.4 | 12.4 | 34 | | MG ^{ns} | 39.5 | Full | | |
| Brights Ditch | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 3.8/____ | 5.7 | | | P* | | | Direct habitat alteration, nutrients, DO/ organic enrichment | Ag related channelization, crop production |
| 2.4/____ | 11.2 | | | P* | | | Direct habitat alteration, nutrients, DO/ organic enrichment | Ag related channelization, crop production |
| 0.3/____ | 28.4 | | | G | | | | |
| The Outlet (Blanchard R. RM 63.63) | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 7.7/7.7 | 7 | 44 | | G | 41.5 | Full | | |
| 6.1/6.1 | 16.4 | 36 | | HF | 17.5 | Full | | |
| 4.5/4.5 | 24 | 42 | 5.7* | 38 | 39.0 | NON | Direct habitat alteration, nutrients | Ag related channelization, crop production |
| 0.5/____ | 38 | | | 44 | | | | |
| Lye Creek | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |
| 9.4/____ | 7 | | | P* | | | Direct habitat alteration, flow alteration thermal modification, nutrients organic enrichment/DO | Ag related channelization, crop production |
| 6.7/____ | 12.2 | | | LF* | | | Direct habitat alteration, flow alteration thermal modification, nutrients organic enrichment/DO | Crop production, unsewered community (Houcktown) |
| 2.6/2.6 | 26 | 32 | 6.4 | 20* | 39.5 | Partial | Direct habitat alteration, Nutrients organic enrichment/DO | Ag related channelization, crop production |
| Hydraulic Ditch | | | <i>MWH recommended - ECBP Ecoregion</i> | | | | | |

Blanchard River Watershed TMDLs

| River Mile Invertebrate/ Fish | MI ² | IBI | MIwb ^a | ICI ^b | QHEI | Attainment ^c | Causes ^d | Soures ^e |
|-------------------------------|-----------------|------------------|----------------------------------|------------------|------|-------------------------|---|--|
| 1.5/____ | 6.6 | | | G | | | | |
| Flat Branch | | | WWH recommended - ECBP Ecoregion | | | | | |
| 1.1/____ | 6.6 | | | F* | | | Flow alteration, nutrients | Agricultural related channelization, crop production |
| 0.1/0.1 | 10.9 | <u>26</u> * | | MG ^{ns} | 54.0 | NON | Flow alteration, nutrients, organic enrichment/DO | Agricultural related channelization, crop production |
| Buck Run | | | WWH - ECBP Ecoregion | | | | | |
| 0.6/0.6 | 6.5 | 32* | | P* | 46.5 | NON | Direct habitat alteration, ammonia, nutrients, organic enrichment/DO | Ag related channelization, crop production, Minor municipal point source (Arlington) |
| Eagle Creek | | | WWH - ECBP Ecoregion | | | | | |
| 17.7/17.7 | 12.9 | 32* | | MG ^{ns} | 55.5 | Partial | Flow alteration, nutrients | Crop production |
| 14.0/13.9 | 28 | 30* | 7.0* | 32 ^{ns} | 66.0 | Partial | Flow alteration, nutrients | Crop production |
| 11.6/11.6 | 39 | 36 ^{ns} | 6.8* | F* | 60.5 | NON | Flow alteration, nutrients | Crop production |
| 9.1/9.1 | 48 | <u>26</u> * | 8.4 | MG ^{ns} | 64.5 | NON | Flow alteration, nutrients | Crop production |
| 3.7/3.8 | 57 | 40 | 7.8 ^{ns} | MG ^{ns} | 66.0 | Full | | |
| 0.5/0.5 | 61 | 32* | 7.4* | G | 62.5 | Partial | Flow alteration, nutrients, ammonia | Crop production, minor municipal point source (Eagle Creek Utilities) |
| Aurand Run | | | WWH recommended - ECBP Ecoregion | | | | | |
| ____/2.7 | 10.1 | 40 | | | 63.0 | (Full) | | |
| 0.5/____ | 15.1 | | | G | | | | |
| Higbie-Redick Ditch | | | MWH - ECBP Ecoregion | | | | | |
| 0.8/____ | 6.4 | | | HF | | | | |
| Tiderishi Creek | | | MWH recommended - ECBP Ecoregion | | | | | |
| 7.3/7.3 | 7.2 | <u>20</u> * | | P* | 40.0 | NON | Direct habitat alteration, low DO, nutrients intermittent flow | Ag related channelization, crop production |
| 4.6/____ | 12.2 | | | P* | | | Direct habitat alteration, thermal modification, nutrients, dry channel, pH | Ag related channelization, crop production |
| | | | WWH recommended - ECBP Ecoregion | | | | | |
| 0.1/0.1 | 19.4 | 34* | | MG ^{ns} | 58.0 | Partial | Direct habitat alteration, nutrients, siltation, organic enrichment/DO | Ag related channelization, crop production |
| Ottawa Creek | | | WWH - ECBP Ecoregion | | | | | |
| 18.5/18.5 | 6.8 | 38 ^{ns} | | MG ^{ns} | 58.0 | Full | | |
| 14.7/14.7 | 11.4 | 34* | | MG ^{ns} | 52.0 | Partial | Direct habitat alteration | Ag related channelization, crop production |
| 10.1/10.1 | 28 | 38 ^{ns} | 7.7* | MG ^{ns} | 62.5 | Partial | Direct habitat alteration, siltation, low DO, nutrients | Ag related channelization, crop production |

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| River Mile Invertebrate/ Fish | MI ² | IBI | MIwb ^a | ICI ^b | QHEI | Attainment ^c | Causes ^d | Soures ^e |
|---|-----------------|------------|-------------------|------------------|------|-------------------------|--|---|
| <i>WWH - HELP Ecoregion</i> | | | | | | | | |
| 4.8/4.9 | 59 | 36 | 8.1 | F* | 67.0 | Partial | Direct habitat alteration, siltation, low DO, nutrients | Ag related channelization, Cramer Duck Farm? |
| ____1.8 | 63 | 36 | 7.6 | | 62.5 | (Full) | | |
| 0.9/____ | 63 | | | 34 | | | | |
| <i>MWH - ECBP Ecoregion</i> | | | | | | | | |
| Buck Run | | | | HF | | | | |
| 0.2/____ | 5.6 | | | | | | | |
| <i>MWH recommended - HELP Ecoregion</i> | | | | | | | | |
| Moffitt Ditch | | | | P* | 21.0 | NON | Direct habitat alteration, nutrient s | Ag related channelization, crop production |
| 2.4/2.4 | 6.1 | 38 | | | | | | |
| 0.5/0.5 | 13.5 | 32 | | HF | 27.5 | Full | | |
| <i>MWH recommended - HELP Ecoregion</i> | | | | | | | | |
| Cartwright Run | | | | HF | | | | |
| 0.1/____ | 5.8 | | | | | | | |
| <i>WWH recommended - HELP Ecoregion</i> | | | | | | | | |
| Dukes Run | | | | F* | 48.0 | Partial | Direct habitat alteration, siltation | Ag related channelization, pasture land |
| 1.9/1.9 | 7.9 | 40 | | | | | | |
| 1.1/1.1 | 14 | 34 | | G | 50.0 | Full | | |
| <i>MWH recommended - HELP Ecoregion</i> | | | | | | | | |
| Dutch Run | | | | HF | 23.5 | Full | | |
| 5.8/5.8 | 6.7 | 24 | | | | | | |
| <i>WWH recommended - HELP Ecoregion</i> | | | | | | | | |
| 2.7/2.7 | 12.8 | 40 | | G | 26.5 | Full | | |
| <i>MWH recommended - ECBP Ecoregion</i> | | | | | | | | |
| Riley Creek | | | | P* | 32.5 | NON | Direct habitat alteration, nutrients, siltation, organic enrichment/DO, bacteria (PCR) | Ag related channelization, crop production |
| 24.9/24.9 | 5.8 | <u>20*</u> | | | | | | |
| 22.0/22.6 | 12.1 | <u>26*</u> | | P* | 37.0 | NON | Direct habitat alteration, nutrients, siltation, organic enrichment/DO | Ag related channelization, crop production |
| <i>WWH - ECBP Ecoregion</i> | | | | | | | | |
| 19.5/19.4 | 29.4 | <u>26*</u> | 7.1* | MG ^{ns} | 55.5 | NON | Direct habitat alteration, nutrients, siltation, organic enrichment/DO, bacteria (PCR) | Ag related channelization, crop production |
| 15.5/15.5 | 44.4 | 34* | 7.3* | MG ^{ns} | 61.0 | Partial | | |
| 14.4/____ | 62 | | | 32 ^{ns} | | | Organic enrichment/DO, thermal modification, nutrients, bacteria (PCR) | crop production, ground water loadings (low DO), CSO |
| ____/11.5 | 64 | <u>20*</u> | 4.3* | | 52.0 | (NON) | Nutrients, siltation, organic enrichment/DO, bacteria (PCR) | crop production, CSO, urban runoff, municipal point sources |
| 7.4/7.6 | 68 | 34* | 8.0 ^{ns} | MG ^{ns} | 77.5 | Partial | Nutrients, organic enrichment/DO, bacteria (PCR) | Crop production |

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| River Mile Invertebrate/ Fish | MI ² | IBI | MIwb ^a | ICI ^b | QHEI | Attainment ^c | Causes ^d | Soures ^e |
|----------------------------------|-----------------|-------------|---|------------------|------|-------------------------|---|---|
| 4.4/4.3 | 70 | 40 | 9.3 | F* | 67.0 | Partial | Nutrients, siltation, organic enrichment/DO, thermal modification | Crop production, municipal point sources, low head dam |
| 1.2/1.2 | 85 | 42 | 10.6 | 40 | 78.0 | Full | | |
| Little Riley Creek (upper) | | | <i>WWH recommended- ECBP Ecoregion</i> | | | | | |
| 2.6/2.7 | 8.5 | 30* | | F* | 50.0 | NON | Direct habitat alteration, siltation | Ag related channelization, crop production |
| 1.0/1.0 | 14.1 | 28* | | F* | 53.5 | NON | Direct habitat alteration, flow alteration | Ag related channelization, crop production |
| Marsh Run | | | <i>MWH recommended- ECBP Ecoregion</i> | | | | | |
| 1.7/1.8 | 6.2 | <u>24</u> | | LF* | 33.0 | Partial | Direct habitat alteration, nutrients, organic enrichment/DO | Ag related channelization, crop production |
| Little Riley Creek (lower) | | | <i>MWH recommended- ECBP Ecoregion</i> | | | | | |
| 5.4/5.5 | 5.5 | <u>26</u> | | P* | 25.5 | Partial | Direct habitat alteration, siltation | Ag related channelization, crop production |
| | | | <i>WWH - ECBP Ecoregion</i> | | | | | |
| 4.2/4.3 | 12.3 | <u>24</u> * | | F* | 64.5 | NON | Siltation, flow alteration, nutrients | Crop production |
| 0.1/0.1 | 16 | <u>24</u> * | | P* | 61.0 | NON | Nutrients, organic enrichment/DO, flow alteration, bacteria (PCR) | Urban runoff, CSOs? |
| Cranberry Run | | | <i>MWH recommended- HELP Ecoregion</i> | | | | | |
| 6.7/6.7 | 6.2 | 28 | | LF* | 31.5 | Partial | Direct habitat alteration, nutrients, organic enrichment/DO | Ag related channelization, crop production |
| | | | <i>WWH recommended- ECBP Ecoregion</i> | | | | | |
| 1.2/____ | 11.3 | | | G | | | | |
| Pike Run | | | <i>MWH recommended - HELP Ecoregion</i> | | | | | |
| 0.7/0.7 | 5.1 | 28* | | P* | 51.0 | NON | Organic enrichment/DO, ammonia, nutrients, siltation | Package plant WWTP, Ag related channelization, crop production |
| Cranberry Creek | | | <i>WWH -HELP Ecoregion</i> | | | | | |
| 19.9/19.9 | 6.4 | 46 | | HF | 41.0 | Full | | |
| 12.9/12.9 | 25 | 32 | 8.1 | MG | 48.0 | Full | | |
| 7.8/7.8 | 30 | 40 | 8.6 | MG | 44.5 | Full | | |
| 1.8/____ | 43 | | | 46 | | | | |
| Little Cranberry Creek | | | <i>MWH recommended – HELP Ecoregion</i> | | | | | |
| 0.8/0.9 | 7 | 30 | | HF | 25.0 | Full | | |
| Miller City Cut-off | | | <i>MWH recommended – HELP Ecoregion</i> | | | | | |
| 0.4/____ | 9 | | | LF* | | | Organic enrichment/DO, nutrients, siltation | Ag related channelization, crop production, failed home sewage systems in Miller City |

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| River Mile Invertebrate/ Fish | MI ² | IBI | MIwb ^a | ICI ^b | QHEI | Attainment ^c | Causes ^d | Soures ^e |
|----------------------------------|-----------------|-------------|---|------------------|------|-------------------------|--|--|
| Caton Ditch | | | <i>MWH recommended – HELP Ecoregion</i> | | | | | |
| 4.1/____ | 5.9 | | | <u>P</u> * | | | Direct habitat alteration, siltation, organic enrichment/DO, nutrients | Ag related channelization, crop production |
| 3.0/3.1 | 15.5 | <u>22</u> * | | LF* | 48.0 | NON | Direct habitat alteration, organic enrichment/DO, flow alteration, nutrients | Ag related channelization, crop production |
| Bear Creek | | | <i>MWH recommended – HELP Ecoregion</i> | | | | | |
| 4.7/____ | 7.1 | | | <u>P</u> * | | | Direct habitat alteration, siltation, flow alteration, nutrients, organic enrichment/DO, ammonia | Ag related channelization, crop production, livestock production, failed home sewage systems |
| ____/0.3 | 12.6 | 32 | | | 26.0 | (Full) | | |
| Deer Creek | | | <i>MWH recommended – HELP Ecoregion</i> | | | | | |
| 1.6/1.5 | 7.4 | 34 | | <u>VP</u> * | 32.0 | NON | Direct habitat alteration, nutrients, organic enrichment,/DO, ammonia | Ag related channelization, Country Acres package plant |

Ecoregion Biocriteria: Eastern Corn Belt Plain

| Site Type | IBI | | | MIwb | | | ICI | | |
|------------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| | WWH | EWH | MWH | WWH | EWH | MWH | WWH | EWH | MWH |
| Headwaters | 40 | 50 | 24 | | | | 36 | 46 | 22 |
| Wading | 40 | 50 | 24 | 8.3 | 9.4 | 4.0 | 36 | 46 | 22 |
| Boat | 42 | 48 | 24 | 8.5 | 9.6 | 4.0 | 36 | 46 | 22 |

Ecoregion Biocriteria: Huron Erie Lake Plain

| Site Type | IBI | | | MIwb | | | ICI | | |
|------------|-----|-----|-----|------|-----|-----|-----|-----|-----|
| | WWH | EWH | MWH | WWH | EWH | MWH | WWH | EWH | MWH |
| Headwaters | 28 | 50 | 20 | | | | 34 | 46 | 22 |
| Wading | 32 | 50 | 20 | 7.3 | 9.4 | 5.6 | 34 | 46 | 22 |
| Boat | 34 | 48 | 20 | 8.6 | 9.6 | 5.7 | 34 | 46 | 22 |

- a- MIwb is not applicable to headwater streams with drainage areas ≤ 20 mi².
- b- A narrative evaluation of the qualitative sample based on attributes such as community composition, EPT taxa richness, and number of sensitive taxa was used when quantitative data were not available or considered unreliable due to current velocities less than 0.3 fps flowing over the artificial substrates.
- c- Attainment status based on a single organism group is parenthetically expressed.
- d- Causes listed are considered to be a primary influence on water quality, but may not be the only issue leading to impairment. See text for discussion of additional causes that cumulatively have led to impairment.
- e- Sources listed are considered to be a primary influence on water quality, but may not be the only source leading to impairment. See text for discussion of additional sources that cumulatively have led to impairment.
- ns- Nonsignificant departure from biocriteria (≤ 4 IBI or ICI units, or ≤ 0.5 MIwb units).
- * - Indicates significant departure from applicable biocriteria (> 4 IBI or ICI units, or > 0.5 MIwb units). Underlined scores are in the Poor or Very Poor range.

Table 1 Summary of Blanchard River assessment unit scoring. The assessment unit score is an average grade of aquatic life use status. A maximum assessment unit score of 100 is possible if all monitored sites meet designated aquatic life uses. The method of calculation is presented in the 2006 Integrated Water Quality Monitoring and Assessment Report (http://www.epa.state.oh.us/portals/35/tmdl/2006IntReport/IR06_text_final.pdf).

| Blanchard Headwaters WAU (04100008 010) | Aquatic Life Attainment Status | | | | | | | Assessment Unit Score |
|--|--------------------------------|------|------|---------|------|-----|------|--------------------------|
| | Total | Full | | Partial | | NON | | |
| | | # | % | # | % | # | % | |
| Sites ≤ 50mi ² drainage area | 13 | 3 | 23.1 | - | - | 10 | 76.9 | 24.4 |
| Miles of assessed streams with > 50mi ² and < 500mi ² drainage area | 20.0 | 6.0 | 30.0 | 7.0 | 35.0 | 7.0 | 35.0 | |
| Comments An additional six sites were sampled that did not meet credible data requirements to completely evaluate aquatic life status. Three sites supported attaining macroinvertebrate assemblages. Three other sites had macroinvertebrate assemblages that reflected a poor to very poor resource condition. | | | | | | | | |

| The Outlet/Lye Creek WAU (04100008 020) | Aquatic Life Attainment Status | | | | | | | Assessment Unit Score |
|---|--------------------------------|------|------|---------|------|-----|------|--------------------------|
| | Total | Full | | Partial | | NON | | |
| | | # | % | # | % | # | % | |
| Sites ≤ 50mi ² drainage area | 5 | 3 | 60.0 | 1 | 20.0 | 1 | 20.0 | 52.8 |
| Miles of assessed streams with > 50mi ² and < 500mi ² drainage area | 3 | 1 | 33.3 | 2 | 66.7 | - | - | |
| Comments An additional eight sites of less than 50mi ² were sampled but did not meet credible data requirements to completely evaluate aquatic life status. Three sites supported attaining macroinvertebrate assemblages. Five other sites had macroinvertebrate assemblages that failed to meet ecoregional aquatic life expectations. | | | | | | | | |

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Table 1. continued.

| Eagle Creek WAU (04100008 030) | Aquatic Life Attainment Status | | | | | | | Assessment Unit Score |
|---|--------------------------------|------|------|---------|------|-----|------|--------------------------|
| | Total | Full | | Partial | | NON | | |
| | | # | % | # | % | # | % | |
| Sites ≤ 50mi ² drainage area | 7 | 1 | 14.3 | 2 | 28.6 | 4 | 57.1 | 29.0 |
| Miles of assessed streams with > 50mi ² and < 500mi ² drainage area | 16.5 | 7.5 | 45.5 | 8.0 | 48.5 | 1 | 6.1 | |
| <p>Comments</p> <p>An additional three sites of less than 50mi² were sampled that did not meet credible data requirements to completely evaluate aquatic life status. Two sites supported attaining macroinvertebrate assemblages. One site had macroinvertebrate assemblages that failed to meet ecoregional aquatic life expectations.</p> | | | | | | | | |

| Ottawa Creek WAU (04100008 040) | Aquatic Life Attainment Status | | | | | | | Assessment Unit Score |
|---|--------------------------------|------|------|---------|------|-----|------|--------------------------|
| | Total | Full | | Partial | | NON | | |
| | | # | % | # | % | # | % | |
| Sites ≤ 50mi ² drainage area | 11 | 5 | 45.5 | 4 | 36.4 | 2 | 18.2 | 50.9 |
| Miles of assessed streams with > 50mi ² and < 500mi ² drainage area | 14 | 11 | 78.6 | 3 | 21.4 | - | - | |
| <p>Comments</p> <p>An additional four sites of less than 50mi² were sampled that did not meet credible data requirements to completely evaluate aquatic life status. Two sites supported MWH attaining macroinvertebrate assemblages. Two other site had macroinvertebrate assemblages that failed to meet MWH aquatic life expectations</p> | | | | | | | | |

Blanchard River Watershed TMDLs

| Riley Creek WAU (04100008 050) | Aquatic Life Attainment Status | | | | | | | Assessment Unit Score |
|--|--------------------------------|------|------|---------|------|-----|------|--------------------------|
| | Total | Full | | Partial | | NON | | |
| | | # | % | # | % | # | % | |
| Sites $\leq 50\text{mi}^2$ drainage area | 9 | - | - | 3 | 33.3 | 6 | 66.7 | 6.3 |
| Miles of assessed streams with $> 50\text{mi}^2$ and $< 500\text{mi}^2$ drainage area | 8 | 1 | 12.5 | 4 | 50.0 | 3 | 37.5 | |
| Comments An additional two sites of less than 50mi^2 were sampled that did not meet credible data requirements to completely evaluate aquatic life status but supported WWH attaining macroinvertebrate assemblages | | | | | | | | |

| Cranberry Creek WAU (04100008 060) | Aquatic Life Attainment Status | | | | | | | Assessment Unit Score |
|--|--------------------------------|------|------|---------|---|-----|------|--------------------------|
| | Total | Full | | Partial | | NON | | |
| | | # | % | # | % | # | % | |
| Sites $\leq 50\text{mi}^2$ drainage area | 8 | 5 | 62.5 | - | - | 3 | 37.5 | 75.0 |
| Miles of assessed streams with $> 50\text{mi}^2$ and $< 500\text{mi}^2$ drainage area | - | - | - | - | - | - | - | |
| Comments An additional four sites of less than 50mi^2 were sampled that did not meet credible data requirements to completely evaluate aquatic life status. Two sites supported macroinvertebrate assemblages that met aquatic life use expectations. Two other sites had macroinvertebrate assemblages that were reflective of a poor resource condition | | | | | | | | |

| Blanchard River LRAU (mainstem exceeding 500mi^2 drainage area) (04100008 00) | Aquatic Life Attainment Status | | | | | | | Assessment Unit Score |
|--|--------------------------------|------|---|---------|---|-----|---|--------------------------|
| | Total | Full | | Partial | | NON | | |
| | | # | % | # | % | # | % | |
| Miles with $> 500\text{mi}^2$ drainage area | 35.0 | 35.0 | - | - | - | - | - | 100 |
| Comments An additional site was sampled that did not meet credible data requirements to completely evaluate aquatic life status. The site supported macroinvertebrate assemblages that met ecoregional expectations. | | | | | | | | |