



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Hickory Branch

Water Body ID: 0596

Water Body Segment at a Glance:

County: Chariton
Nearby City: Mendon
Length: 6.8 miles
Pollutant: Low dissolved oxygen
Source: Rural nonpoint sources



State Map Showing Location of Watershed

Schedule for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm

Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Hickory Branch is impaired due to exceedances of state water quality criteria that protect aquatic life designated uses.

Designated uses of Hickory Branch*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category B (WBC-B)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

* In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

Designated Uses that are Impaired

- Warm Water Habitat (WWH)

Standards that apply

- In Missouri Water Quality Standards at 10 CSR 20-7.031 Table A, the criterion for dissolved oxygen in streams is a minimum of 5 mg/L. Dissolved oxygen is important as many aquatic organisms require high levels of oxygen to survive. A water body is judged to be impaired due to low dissolved oxygen if more than 10 percent of measurements in a water body fall below the water quality criterion. In the case of Hickory Branch, six of 25 samples (24 percent) did not meet the water quality criteria of 5 mg/L (Figure 1).

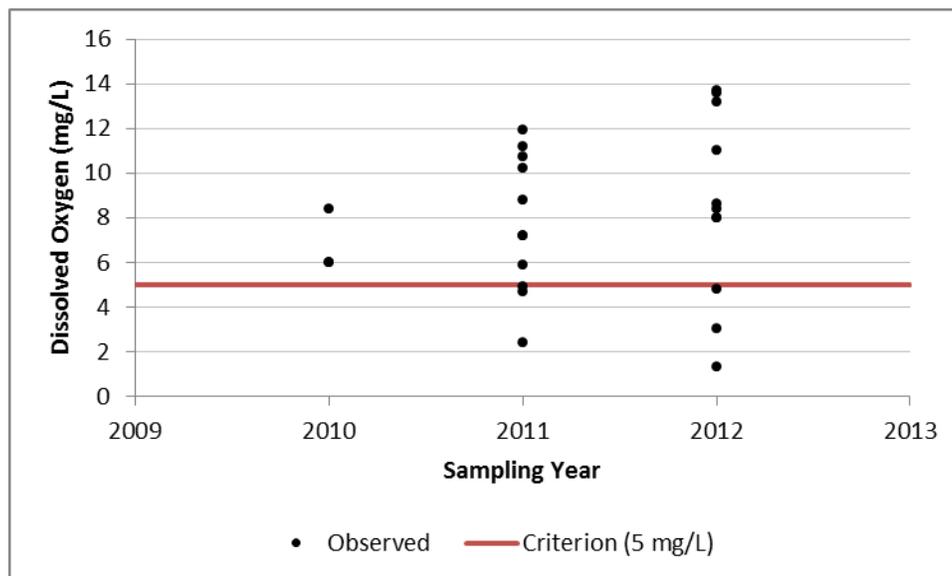


Figure 1. Dissolved oxygen data for Hickory Branch (2010 – 2012)

TMDL for Hickory Branch

The Hickory Branch TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Hickory Branch TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

For more information call or write:

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Map of the Hickory Branch Watershed

