



# Total Maximum Daily Load Information Sheet

## Honey Creek

Water Body ID: 3169 and 3170

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### Water Body Segment at a Glance:

**County:** Lawrence  
**Nearby City:** Marionville  
**Length:** 3169 – 16.5 miles  
3170 – 2.7 miles  
**Pollutant:** Bacteria  
**Source:** Rural nonpoint source runoff



State Map Showing Location of Watershed

### Scheduled 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](http://dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm)

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### 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. Honey Creek is impaired due to exceedances of water quality criteria that protect recreational uses.

### Designated uses of Honey Creek\*

- 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).

### Use that is impaired

- Whole Body Contact Recreation Category B (WBC-B)

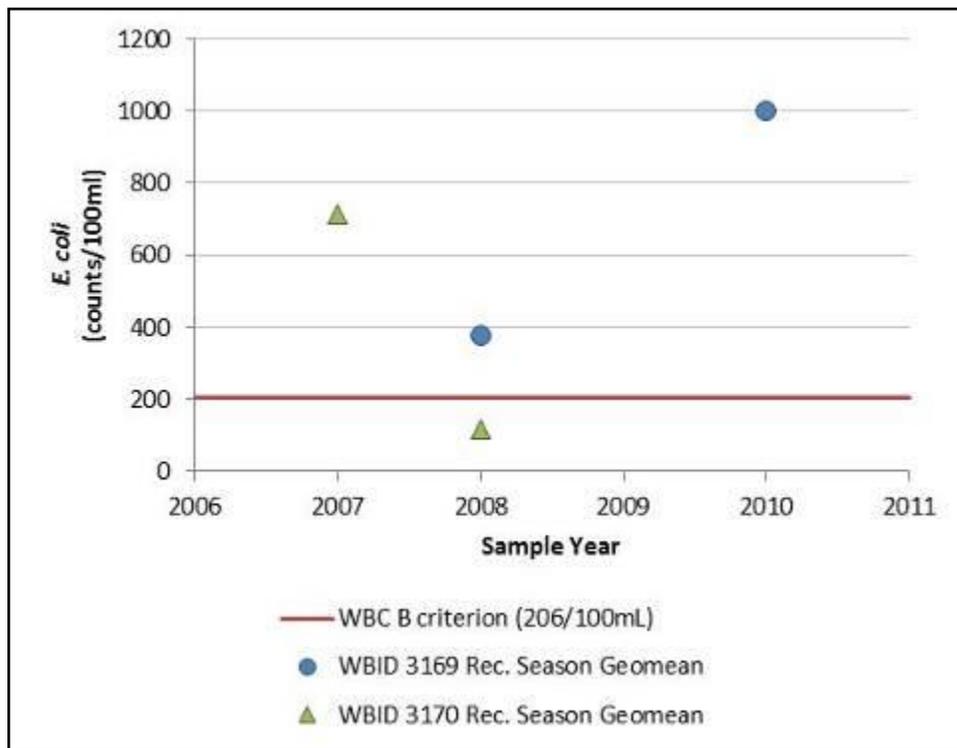
### Criteria that apply

- Missouri’s Water Quality Standards at 10 CSR 20-7.031(5)(C) and Table A state that for waters designated for whole body contact recreation category B, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 206 counts per 100 milliliters of water during the recreational season. The recreational season is defined as being from April 1 to October 31.

### Assessment and water quality data

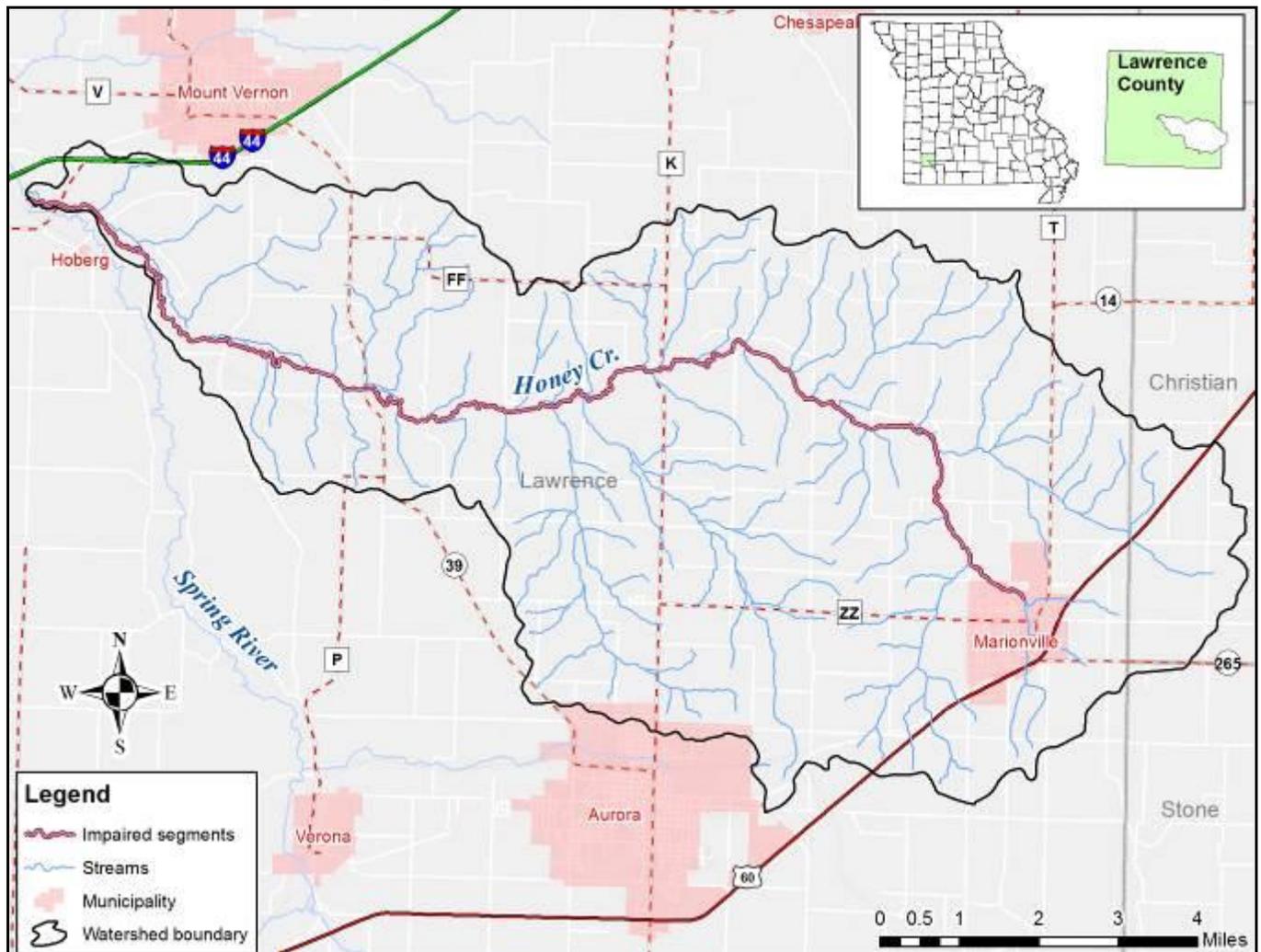
High counts of *E. coli* are an indication of fecal contamination and an increased risk of pathogen-induced illness to humans. Infections due to pathogen-contaminated waters include gastrointestinal, respiratory, eye, ear, nose, throat and skin diseases. *E. coli* are bacteria found in the intestines of warm-blooded animals and are used as indicators of the risk of waterborne disease from pathogenic bacteria or viruses.

The department judges a stream to be impaired by bacteria if the water quality criterion for *E. coli* is exceeded in any of the last three years for which there is a minimum of five samples taken during the recreational season. The most recent data used to assess water quality in Honey Creek was collected by the Lawrence County Health Department in 2007, 2008 and 2010. This data shows that *E. coli* concentrations in the Honey Cree exceeded the category B criterion in 2007 for water body segment 3170 and in 2008 and 2010 for water body segment 3169 (Figure 1).



**Figure 1.** Recreational season geometric mean *E. coli* data for Honey Creek

## Map of the Honey Creek Watershed



### TMDL for Honey Creek

The Honey Creek 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 Honey Creek 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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