

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Capps Creek

Water Body ID: 3234

Water Body Segment at a Glance:

Counties: Barry and Newton
Nearby City: Pierce City
Length: 5.0 miles
Pollutant: *E. coli* bacteria
Source: Rural nonpoint sources



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

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. Capps Creek is impaired due to exceedances of the water quality criteria for the protection of recreational uses.

Designated uses of Capps Creek*

- Warm Water Habitat (WWH)
- Cold Water Habitat (CDH)
- Whole Body Contact Recreation Category A (WBC-A)
- 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 use that are impaired

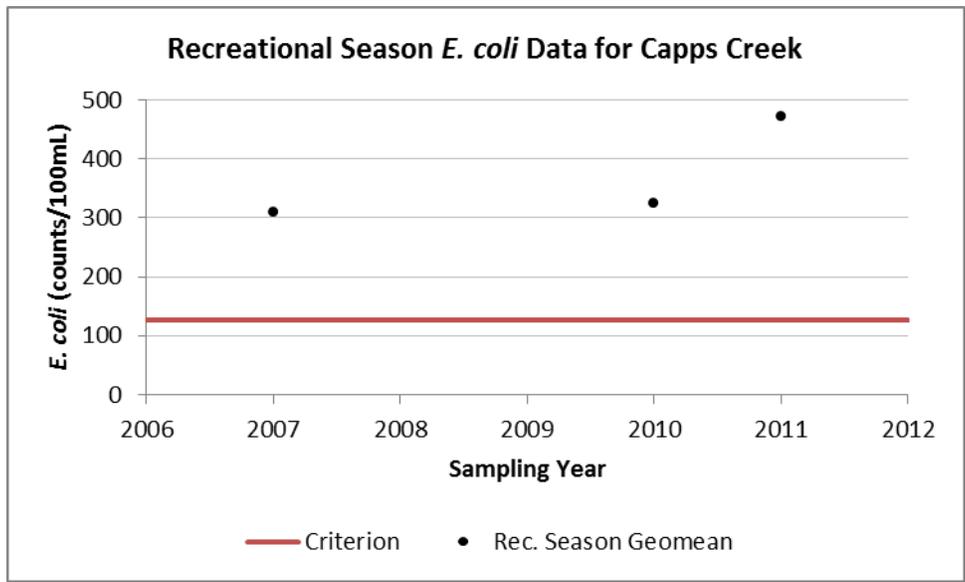
- Whole Body Contact Recreation Category A (WBC-A)

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 A, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 126 colonies 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

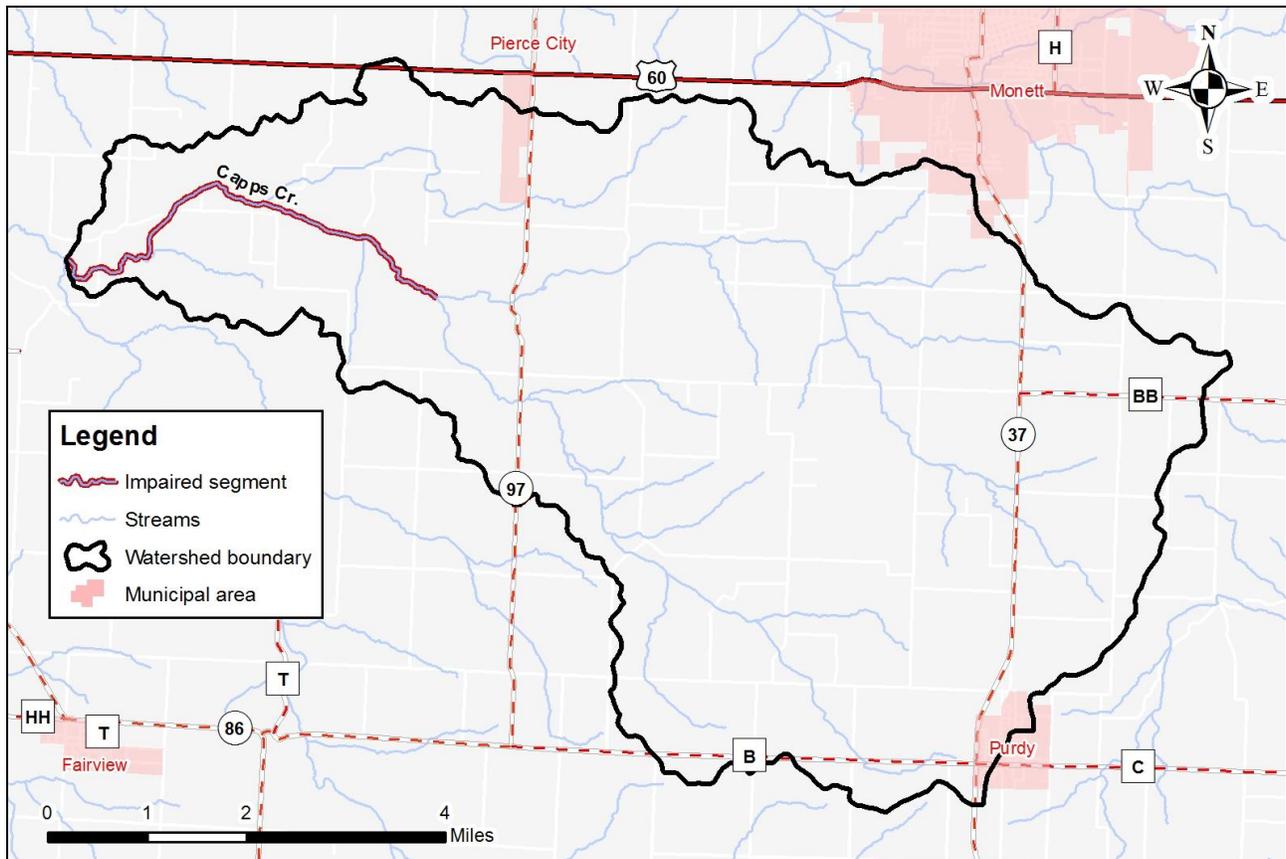
High measurements of *Escherichia coli*, or *E. coli*, bacteria in surface waters are an indication of an increased risk of waterborne disease from pathogenic (disease causing) bacteria or viruses to humans. The Newton County Health Department conducted monitoring for *E. coli* in 2006-2007 on Capps Creek. This showed water quality criteria exceedances in both years. The graph below shows the geometric mean (combined data for all dates at that site) for five sites on Capps Creek.



TMDL for Capps Creek

The Capps 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 Capps 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.

Map of the Capps Creek Watershed



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