

Missouri Department of Natural Resources

# Total Maximum Daily Load Information Sheet

## Crane Creek

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### Water Body Segment at a Glance:

**County:** Stone  
**Nearby City:** Crane  
**Water Body ID:** 2382  
**Segment Length:** 13.2 miles  
**Watershed Size:** 128.8 square miles  
**Pollutant:** Aquatic Macroinvertebrate  
Bioassessments  
**Source:** Unknown



Statewide Map Showing Location of Watershed

**Scheduled for TMDL development:** 2022

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### Description of the Problem

#### Designated beneficial uses of Crane Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Cold Water Fishery
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation – Category B
- Secondary Contact Recreation

#### Uses that are impaired

- Protection of Warm Water Aquatic Life

#### Standards that apply

The state's general water quality criteria at 10 CSR 20-7.031(3) are applicable to all waters of the state at all times. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal, or aquatic life [10 CSR 20-7.031(3)(D)].
- Waters shall be free from physical, chemical, or hydrologic changes that would impair the natural biological community [10 CSR 20-7.031(3)(G)].

### **Background information and water quality data**

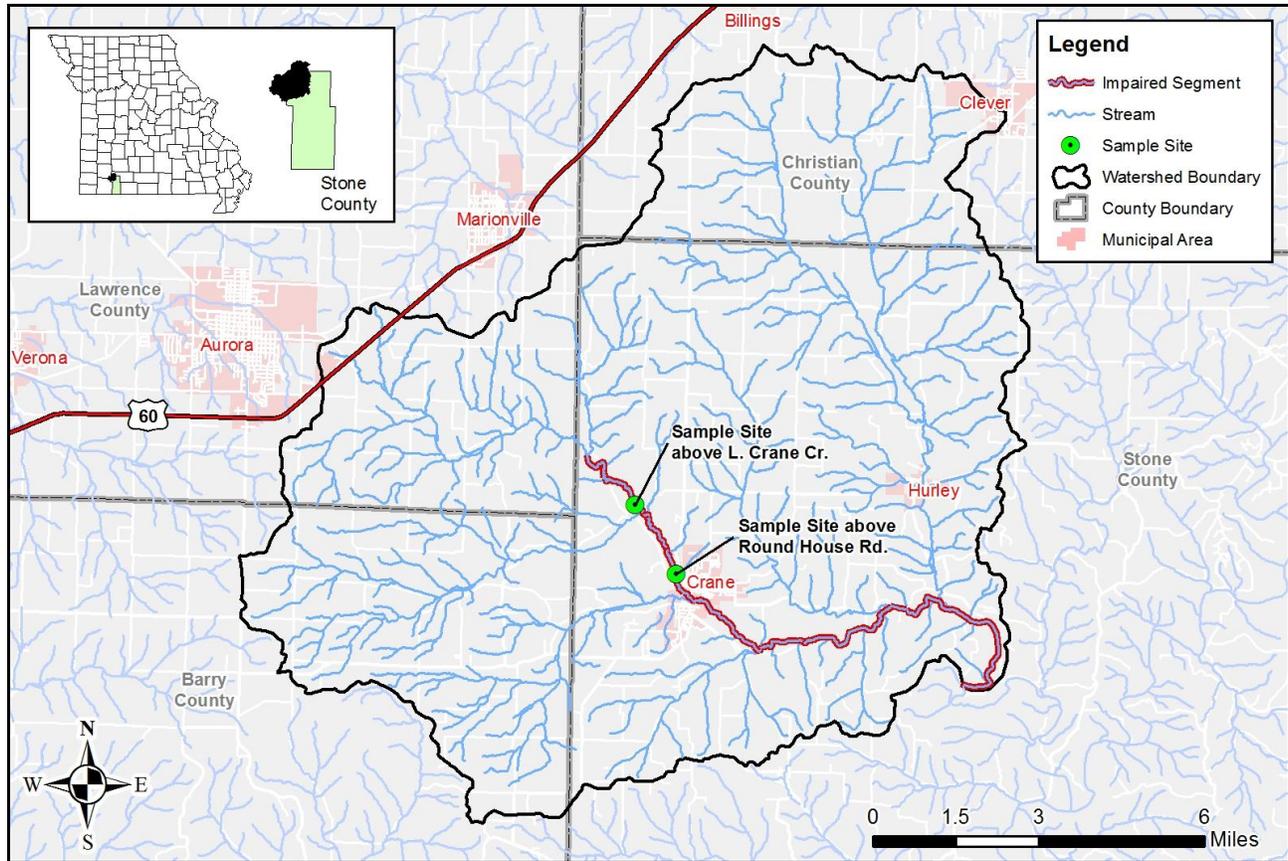
Crane Creek flows through the municipality of Crane in Stone County and is a tributary of the James River. The segment of Crane Creek that is impaired is a 13.2 mile segment that begins near the Lawrence County boundary and flows for about 6 miles to the confluence with the James River. Aquatic invertebrate samples were collected from Crane Creek in 1997. These samples were analyzed and a score was determined to indicate the health of the aquatic community based on the numbers and types of species present. Scores of 16 or greater are considered healthy and reflect an unimpaired condition. Scores less than 16 indicate an impaired condition, which may be caused by toxicity or habitat issues within the waterway. Additional monitoring may be necessary to determine if the cause of the low scores is due to a chemical or physical condition.

Invertebrate communities are judged to be impaired if the percent of sampling sites receiving a score of 16 or more is significantly less than for reference streams within the same ecological drainage unit. If there are seven or fewer samples, as in the case of Crane Creek, the department judges a stream as impaired if at least 75 percent of the samples score less than 16. For Crane Creek, four of the five samples collected scored less than 16. For this reason, the stream is judged to be impaired.

#### **Invertebrate Community Data**

<b>Sampling Organization</b>	<b>Sampling Site Code</b>	<b>Sample Site Location</b>	<b>Date</b>	<b>Score</b>
MoDNR	2382/10.5	Crane Cr. above Little Crane Cr.	March 21, 1997	14
MoDNR	2382/10.5	Crane Cr. above Little Crane Cr.	Sept. 17, 1997	20
MoDNR	2382/8.8	Crane Cr. above Round House Rd.	March 21, 1997	14
MoDNR	2382/8.8	Crane Cr. above Round House Rd.	Sept. 17, 1997	14

## Map Showing the Crane Creek Watershed



**For more information call or write:**

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Water Protection Program

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1-800-361-4827 or 573-751-1300 office

573-526-6802 fax

Program Home Page: [dnr.mo.gov/env/wpp/index.html](http://dnr.mo.gov/env/wpp/index.html)

NOTE: The final Crane Creek TMDL will use the most recent and available data and information.