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## **Communicable Disease Surveillance Summary Report** Jefferson County, Missouri

**May 2025**

### **NOTES ON THE DATA:**

- All data and information are conditional and may change as more reports are received.
- Case definitions are established by the Missouri Department of Health and Senior Services' (DHSS) Communicable Disease Investigation Reference Manual and the CDC's National Notifiable Diseases Surveillance System (NNDSS). The totals reflect the number of confirmed and probable cases reported; suspect cases are not included.
- Data is reported in epidemiologic weeks established by the CDC's Morbidity and Mortality Weekly Report (MMWR). The MMWR week starts on a Sunday and ends on Saturday. Values for MMWR week range from 1 to 53, although most years consist of 52 weeks. The 2025 MMWR calendar began on December 29, 2024.
- Case date may be based on the onset date, diagnosis date, specimen date, or test date.
- Excluded from this report are Sexually Transmitted Diseases, Influenza, and COVID-19.
- Jefferson County Health Department monitors all reportable disease cases year-round. Figures 1. and 2. include detailed views of diseases or conditions that may be of importance during the time of year this report is published. Variables such as outbreaks or the seasonality of communicable diseases may affect the number of cases per month and call for a more in-depth look. Seasonal change in the incidence of infectious diseases is common.

**Table 1. Number of Enteric Cases by Month,  
Jefferson County, Missouri**

Disease or Condition	Five Previous Months					Year to Date Comparison		
	January 2025	February 2025	March 2025	April 2025	May 2025	YTD 2025	YTD 5 Previous Year Mean	YTD Alert <sup>1</sup>
Campylobacteriosis	2	1	1	1	2	7	8.4	
Cryptosporidiosis	1	1	0	0	0	2	0.6	
Cyclosporiasis	0	0	0	0	0	0	0	
E. Coli O157:H7	0	0	0	0	0	0	0.4	
E. Coli Shiga Toxin + (STEC)	2	0	1	2	0	5	1.8	*
Giardiasis	0	1	0	0	0	1	0.8	
Hepatitis A Acute	0	0	0	0	0	0	2	
Listeriosis	0	0	0	0	0	0	0.2	
Salmonellosis	4	2	4	3	0	13	8.6	*
Shigellosis	0	0	0	0	0	0	0.6	
Vibriosis	0	0	0	0	1	1	0.4	
Yersiniosis	0	0	0	0	0	0	1.4	
<b>Enteric Totals</b>	<b>9</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>3</b>	<b>29</b>	<b>25.2</b>	

<sup>1</sup> Year- to- Date alerts represent an increase of at least one standard deviation for total cases in the current year compared to the same time period in the five previous years.

**Table 2. Number of Respiratory and Systemic Disease Cases by Month,  
Jefferson County, Missouri**

Disease or Condition	Five Previous Months					Year to Date Comparison		
	January 2025	February 2025	March 2025	April 2025	May 2025	YTD 2025	YTD 5 Previous Year Mean	YTD Alert
Coccidioidomycosis	0	0	0	0	0	0	0	
Haemophilus Influenzae, Invasive	0	0	0	1	0	1	2.4	
Legionellosis	0	1	0	1	0	2	0.4	*
Measles	0	0	0	0	0	0	0	
Mumps	0	0	0	1	0	1	0	
Pertussis	2	0	1	1	2	6	7.4	
Staph Aureus, VISA	0	0	0	0	0	0	1	
Streptococcus Pneumoniae, Invasive	3	2	6	1	0	12	10.6	
Streptococcal Toxic Shock Syndrome	0	1	0	0	0	1	0.4	
Varicella	0	0	0	0	0	0	1.4	
<b>Respiratory and Systemic Totals</b>	<b>5</b>	<b>4</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>23</b>	<b>23.6</b>	

**Table 3. Number of Vector-Borne Cases by Month,  
Jefferson County, Missouri**

Disease or Condition	Five Previous Months					Year to Date Comparison		
	January 2025	February 2025	March 2025	April 2025	May 2025	YTD 2025	YTD 5 Previous Year Mean	YTD Alert
Babesiosis	0	0	0	0	0	0	0	
Dengue Fever	0	0	0	0	0	0	0.2	
Ehrlichia Chaffeensis	0	0	0	0	3	3	4.2	
Ehrlichia Ewingii	0	0	0	0	1	1	0	
Ehrlichiosis Anaplasmosis Undetermined	0	0	0	0	1	1	0.2	
Lyme	0	0	0	0	0	0	0	
Neuroinvasive West Nile	0	0	0	0	0	0	0	
Q Fever	0	0	0	0	0	0	0	
Rocky Mountain Spotted Fever	0	0	0	0	0	0	0.4	
Tularemia	0	0	0	0	0	0	0	
<b>Vector-Borne Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>5</b>	

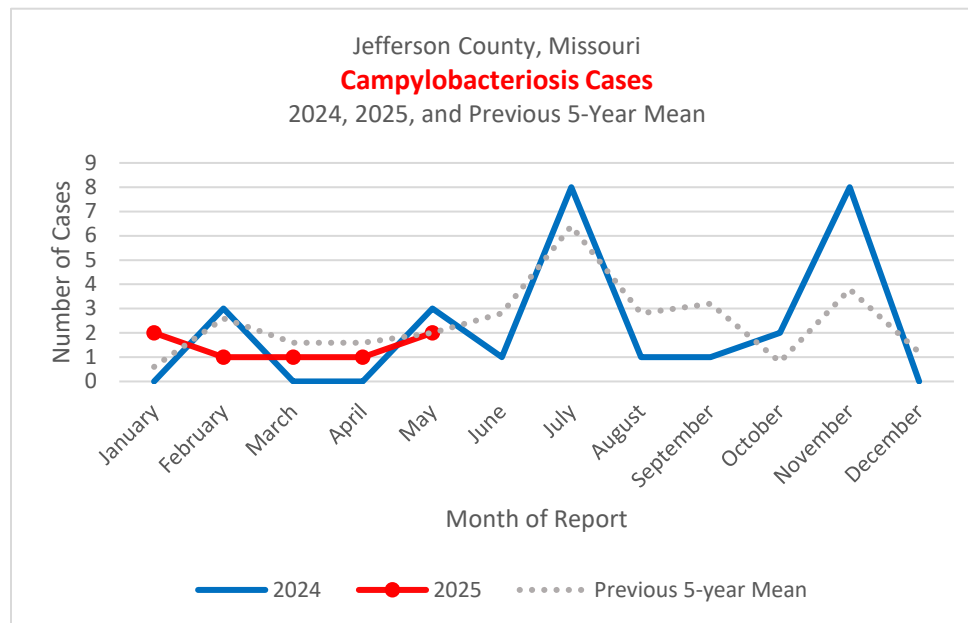
**Table 4. Number of Other/Miscellaneous Cases by Month,  
Jefferson County, Missouri**

Disease or Condition	Five Previous Months					Year to Date Comparison		
	January 2025	February 2025	March 2025	April 2025	May 2025	YTD 2025	YTD 5 Previous Year Mean	YTD Alert
Animal Bites	21	14	31	10	26	102	99	*
Hansen's Disease (Leprosy)	0	0	0	0	0	0	0	
MOTT	1	1	3	2	0	7	9.6	
Rabies Animal	0	0	0	0	0	0	0	
Rabies Post Exposure Prophylaxis	2	1	0	0	0	3	5.2	
TB Disease	0	0	0	0	0	0	0	
TB Infection	4	1	2	2	1	11	18.8	
<b>Other/Miscellaneous Totals</b>	<b>28</b>	<b>17</b>	<b>36</b>	<b>14</b>	<b>27</b>	<b>123</b>	<b>132.6</b>	

**Figure 1. Campylobacteriosis  
Jefferson County, Missouri**

Campylobacter infection, or campylobacteriosis, is caused by Campylobacter bacteria. Campylobacteriosis is one of the most common causes of diarrheal illness in the United States. There are 21 Campylobacter species; however, Campylobacter jejuni and Campylobacter coli are the two species that most often infect humans. Almost all persons infected with Campylobacter recover without any specific treatment. Antimicrobial therapy is warranted only for patients with severe disease or those at high risk for severe disease, such as those with immune systems severely weakened from medications or other illnesses.

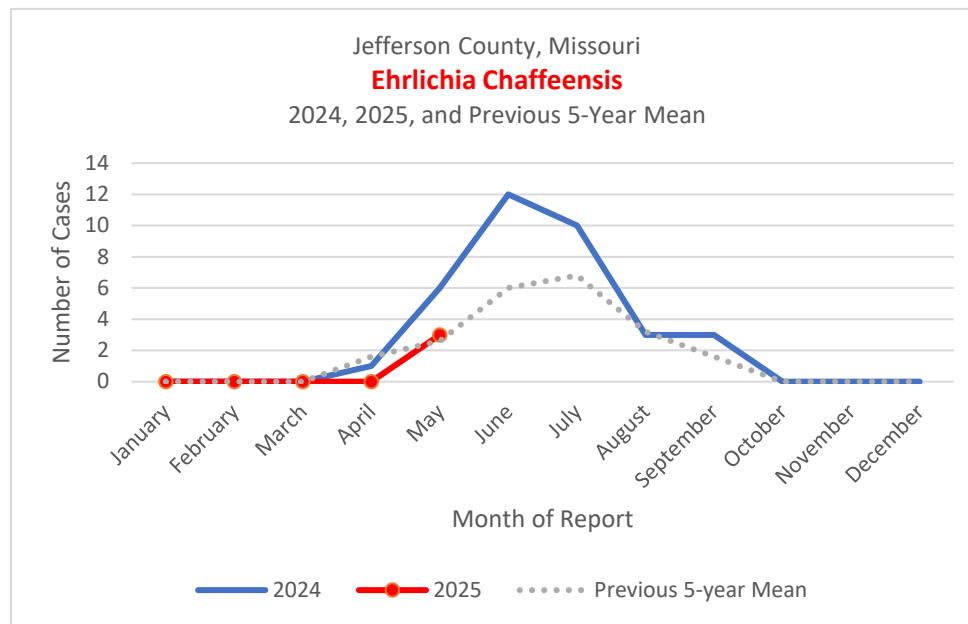
There were 2 cases of Campylobacteriosis reported during May 2025 in Jefferson County. During the previous 5 years, the number of cases has ranged from 0 to 8 per month.



**Figure 2. Ehrlichiosis  
Jefferson County, Missouri**

Ehrlichiosis is a tick-borne illness caused by the bacteria *Ehrlichia chaffeensis*, *E. ewingii*, or *E. muris eauclairensis*. These bacterial zoonotic pathogens infect animal reservoir hosts and require a tick to be transmitted to humans. The majority of reported cases are due to infection with *E. chaffeensis*. In Missouri, Ehrlichiosis is primarily transmitted by the Lone Star tick. In rare cases, *Ehrlichia* species have been spread through blood transfusion and organ transplant. Doxycycline is the treatment of choice for adults and children of all ages with ehrlichiosis.

There were 3 cases of *E. chaffeensis* reported during May 2025 in Jefferson County. During the previous 5 years, the number of reported cases has ranged from 0 to 12 per month.



## **ADDITIONAL DATA SOURCES AND INFORMATION**

Missouri Department of Health and Senior Services, Communicable Disease Investigation Reference Manual:  
<https://health.mo.gov/living/healthcondiseases/communicable/communicabledisease/cdmanual/index.php>

CDC National Notifiable Diseases Surveillance System (NNDSS):  
<https://www.cdc.gov/nndss/>