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

**January 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		
	September 2024	October 2024	November 2024	December 2024	January 2025	YTD 2025	YTD 5 Previous Year Mean	YTD Alert <sup>1</sup>
Campylobacteriosis	1	2	4	4	2	2	0.6	
Cryptosporidiosis	0	1	0	0	1	1	0	
Cyclosporiasis	0	0	0	0	0	0	0	
E. Coli O157:H7	0	1	4	5	0	0	0.2	
E. Coli Shiga Toxin + (STEC)	0	1	0	0	2	2	0.4	*
Giardiasis	1	0	1	1	0	0	0.4	
Hepatitis A Acute	0	0	0	0	0	0	0.4	
Listeriosis	0	0	0	0	0	0	0	
Salmonellosis	7	5	4	2	4	4	1.4	*
Shigellosis	0	0	0	1	0	0	0	
Vibriosis	1	0	0	0	0	0	0	
Yersiniosis	0	0	0	0	0	0	0.2	
<b>Enteric Totals</b>	<b>10</b>	<b>10</b>	<b>13</b>	<b>13</b>	<b>9</b>	<b>9</b>	<b>3.6</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		
	September 2024	October 2024	November 2024	December 2024	January 2025	YTD 2025	YTD 5 Previous Year Mean	YTD Alert
Coccidioidomycosis	0	0	0	0	0	0	0	
Haemophilus Influenzae, Invasive	0	1	0	2	0	0	1.4	
Legionellosis	0	2	1	0	0	0	0	
Measles	0	0	0	0	0	0	0	
Pertussis	0	6	7	7	2	2	1.4	
Staph Aureus, VISA	0	0	0	1	0	0	0	
Streptococcus Pneumoniae, Invasive	3	1	1	1	3	3	3.4	
Streptococcal Toxic Shock Syndrome	0	0	0	0	0	0	0	
Varicella	0	0	0	0	0	0	0.8	
<b>Respiratory and Systemic Totals</b>	<b>3</b>	<b>10</b>	<b>9</b>	<b>11</b>	<b>5</b>	<b>5</b>	<b>7</b>	

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

Disease or Condition	Five Previous Months					Year to Date Comparison		
	September 2024	October 2024	November 2024	December 2024	January 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	
Ehrlichia Chaffeensis	3	0	0	0	0	0	0	
Ehrlichia Ewingii	0	0	0	0	0	0	0	
Ehrlichiosis Anaplasmosis Undetermined	1	0	0	0	0	0	0	
Lyme	0	1	0	0	0	0	0	
Neuroinvasive West Nile	0	0	0	1	0	0	0	
Q Fever	0	0	0	0	0	0	0	
Rocky Mountain Spotted Fever	0	0	0	0	0	0	0	
Tularemia	0	0	0	0	0	0	0	
<b>Vector-Borne Totals</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	

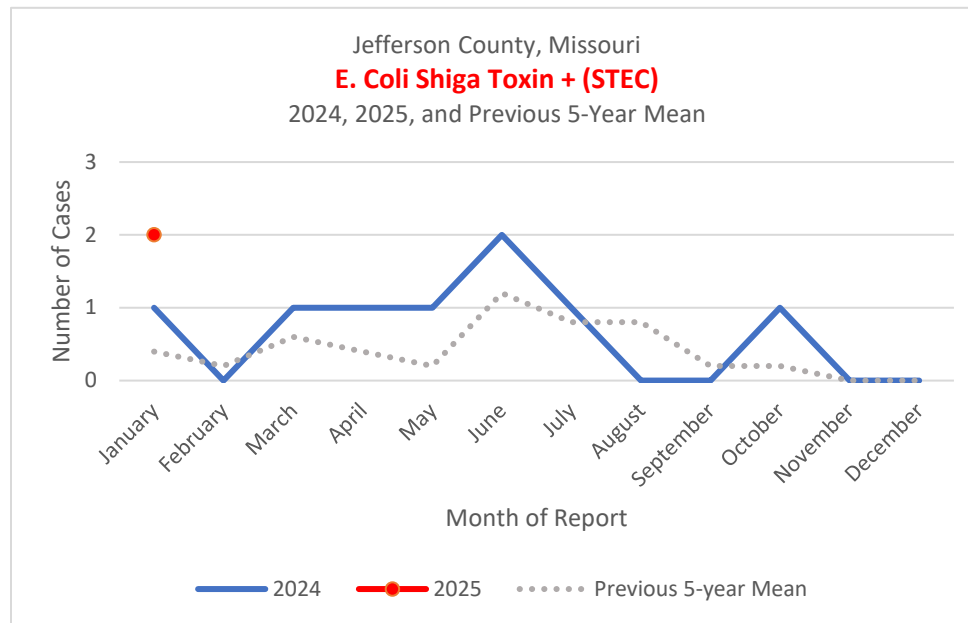
**Table 4. Number of Other/Miscellaneous Cases by Month,  
Jefferson County, Missouri**

Disease or Condition	Five Previous Months					Year to Date Comparison		
	September 2024	October 2024	November 2024	December 2024	January 2025	YTD 2025	YTD 5 Previous Year Mean	YTD Alert
Animal Bites	24	26	20	21	20	20	15.2	*
Hansen's Disease (Leprosy)	0	0	0	0	0	0	0	
MOTT	1	4	2	0	1	1	1.4	
Rabies Animal	0	0	0	0	0	0	0	
Rabies Post Exposure Prophylaxis	0	0	0	1	2	2	1	
TB Disease	0	0	0	0	0	0	0	
TB Infection	4	3	5	0	3	3	2.4	
<b>Other/Miscellaneous Totals</b>	<b>29</b>	<b>33</b>	<b>27</b>	<b>22</b>	<b>26</b>	<b>26</b>	<b>20</b>	

**Figure 1. E. Coli Shiga Toxin + (STEC)  
Jefferson County, Missouri**

Escherichia Coli (abbreviated as E. Coli) are bacteria found in the environment, foods, and intestines of people and animals. Shiga toxin-producing Escherichia Coli (STEC) is the term used to refer to a group of E. Coli bacteria that produce powerful toxins, which can cause severe illness. Most cases in North America are caused by E. Coli O157:H7, but other serotypes of E. Coli can also express Shiga toxins. The other most common Shiga toxin-producing serotypes in North America include O26, O111, O103, O45, and O121. The CDC estimates approximately 70,000 cases of STEC associated illnesses occur in the United States each year. Non-specific supportive therapy, including hydration, is important for STEC infections. The E. Coli Shiga Toxin + (STEC) category in this report includes all Shiga toxin-producing serotypes except for E.Coli O157:H7, which has its own designated category.

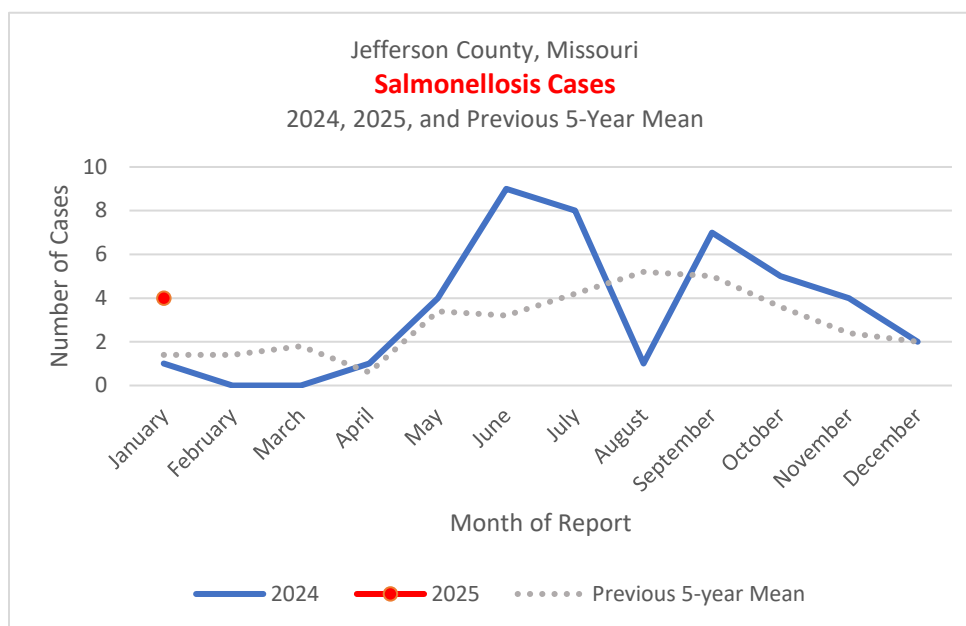
There were 2 STEC cases reported during January 2025 in Jefferson County. During the previous 5 years, the number of reported cases has ranged from 0 to 3 per month. A year-to-date alert has been noted for this condition. Year-to-date alerts are present when the total cases in the current year are more than one standard deviation above the mean for the same time period in the previous five years.



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

Salmonella are a gram-negative, rod-shaped bacteria which can cause illness in both animals and humans. Nontyphoidal salmonellosis (NTS) refers to illnesses caused by all serotypes of Salmonella (S.) except for S. Typhi, S. Paratyphi A, S. Paratyphi B, and S. Paratyphi C. Multistate outbreaks of Salmonella are commonly reported, however a large percentage of cases occur sporadically. Salmonella live in the intestines of people and animals. People can get Salmonella infection from a variety of sources, including eating contaminated food or drinking contaminated water, and/or touching infected animals, their feces, or their environment. Most people recover without specific treatment. Antibiotics are typically used only to treat people with severe illness.

There were 4 cases of Salmonellosis reported during January 2025 in Jefferson County. During the previous 5 years, the number of cases reported has ranged from 0 to 11 per month. A year-to-date alert has been noted for this condition. Year-to-date alerts are present when the total cases in the current year are more than one standard deviation above the mean for the same time period in the previous five years.



## **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/>