

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Audrain County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Audrain County

Report for Week 50 of 2016

Report Run Date = December 20, 2016

**For DHSS and LPHA Internal Use Only.
Data Included in This Report is Provisional.**

**Data Source: Confirmed or Probable Cases of Diseases & Conditions
entered into the Missouri Health Surveillance Information System (WEBSURV)**

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Quartile Analysis of Year-to-date Counts for Week 50, 2016

Audrain County

Disease or Condition	Week 50 YTD¹	Week 49 YTD¹	Week 48 YTD¹	Five Year 1st Quartile	Five Year Median	Five Year 3rd Quartile	Change from Week 49 to Week 50	Change from Week 50 to 5-Year Median	Rate per 100,000 Week 50	Relative Rate Week 50	First Week Reported²	Last Week Reported²
Animal Bites	34	34	33	No Data	38	No Data	0.0%	(10.5%)	131.51	1.04	1	49
Campylobacteriosis	2	2	2	1	1	3	0.0%	100.0%	7.74	0.33	38	46
Coccidioidomycosis	1	1	1	No Data	0	No Data	0.0%	0.0%	3.87	11.39	13	13
Cryptosporidiosis	3	3	3	2	2	2	0.0%	50.0%	11.60	1.61	5	43
E Coli Shiga Toxin Positive	1	1	1	1	1	1	0.0%	0.0%	3.87	1.15	22	22
E. Coli O157 H7	1	1	1	1	1	1	0.0%	0.0%	3.87	1.64	43	43
Ehrlichia chaffeensis	2	2	2	1	1	2	0.0%	100.0%	7.74	1.90	25	30
Giardiasis	3	3	3	2	2	3	0.0%	50.0%	11.60	2.01	22	39
Hepatitis B Chronic Infection	1	1	1	2	2	3	0.0%	(50.0%)	3.87	0.54	41	41
Hepatitis C, Chronic Infection	29	29	29	18	19	53	0.0%	52.6%	112.17	1.33	1	46
Legionellosis	1	1	1	1	1	1	0.0%	0.0%	3.87	1.42	46	46
Rabies Post Exposure Prophylaxis	1	1	0	No Data	2	No Data	0.0%	(50.0%)	3.87	0.42	49	49
Salmonellosis	6	6	6	2	3	3	0.0%	100.0%	23.21	1.31	13	38
Shigellosis	3	2	2	1	3	4	50.0%	20.0%	11.60	0.81	28	50
Strep Pneumoniae, Drug-Resistant	2	2	2	1	1	1	0.0%	100.0%	7.74	1.67	23	46
Tb Infection	6	6	6	4	4	5	0.0%	50.0%	23.21	0.47	9	48
Tuberculosis	1	1	1	1	1	1	0.0%	0.0%	3.87	2.28	15	15
Varicella (Chickenpox)	1	1	1	No Data	2	No Data	0.0%	(50.0%)	3.87	1.46	43	43

¹ **Analysis Results Legend:**

The Year-to-Date (YTD) count is above the 5-year median.

The Year-to-Date (YTD) count is above the 5-year 3rd quartile for a period of one or two weeks.

The Year-to-Date (YTD) count is above the 5-year 3rd quartile for a period of three weeks.

The Year-to-Date (YTD) count is above the 5-year Maximum.

² **First Week Reported in 2016**

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report for Week 50, 2016
Disease or Condition Analysis
Relative to Last Report run on 12/13/2016 for Week 49, 2016

Audrain County

Disease or Condition	Data Status^{1,2}	1st Week Reported Current Report	1st Week Reported Last Report	Change in Count	Week 50 Quartile Results³	Week 49 Quartile Results⁴	Data Trend Analysis⁵	Data Elevation Analysis⁶
Animal Bites	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Campylobacteriosis	Old	38	38	0	Above Median	Above Median	Flat	Above Normal
Coccidioidomycosis	Old	13	13	0	Above Median	Above Median	Flat	Above Normal
Cryptosporidiosis	Old	5	5	0	Above Maximum	Above Maximum	Flat	Very Elevated
E Coli Shiga Toxin Positive	Old	22	22	0	Below Median	Below Median	Flat	Below Normal
E. Coli O157 H7	Old	43	43	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	25	25	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Giardiasis	Old	22	22	0	Above Median	Above Median	Flat	Above Normal
Hepatitis B Chronic Infection	Old	41	41	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	1	Above Median	Above Median	Increase	Above Normal
Legionellosis	Old	46	46	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	49	49	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	13	13	0	Above Maximum	Above Maximum	Flat	Very Elevated
Shigellosis	Old	28	28	1	Above Median	Below Median	Increase	Above Normal
Strep Pneumoniae, Drug-Resistant	Old	23	23	0	Above Maximum	Above Maximum	Flat	Very Elevated
Tb Infection	Old	9	9	1	Above 3 rd Quartile	Above Median	Increase	Elevated
Tuberculosis	Old	15	15	0	Below Median	Below Median	Flat	Below Normal
Varicella (Chickenpox)	Old	43	43	0	Below Median	Below Median	Flat	Below Normal

¹ Data Status: Old=Continuing Occurrence in 2016, New=First Occurrence in 2016 and Out=Case was Removed from WEBSURV

² First Week Reported and/or First Occurrence of Disease or Condition in 2016

³ Week 50 Quartile Results are from the Current Report

⁴ Week 49 Quartile Results are from the Last Report

⁵ Based on Change in Count Current Report vs Last Report

⁶ Based on Quartile Analysis from Current Report where: Below Normal=below median, Above Normal= above median, Elevated=above 3rd quartile and Very Elevated=Above Maximum.

**Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Year-to-Date Rates for Week 50, 2016**

<i>Disease or Condition</i>	<i>Rate</i> ¹	<i>Relative Rate</i> ^{2,3,4}
<i>Animal Bites</i>	131.51	1.04
<i>Campylobacteriosis</i>	7.74	0.33
<i>Coccidioidomycosis</i>	3.87	11.39
<i>Cryptosporidiosis</i>	11.60	1.61
<i>E Coli Shiga Toxin Positive</i>	3.87	1.15
<i>E. Coli O157 H7</i>	3.87	1.64
<i>Ehrlichia chaffeensis</i>	7.74	1.90
<i>Giardiasis</i>	11.60	2.01
<i>Hepatitis B Chronic Infection</i>	3.87	0.54
<i>Hepatitis C, Chronic Infection</i>	112.17	1.33
<i>Legionellosis</i>	3.87	1.42
<i>Rabies Post Exposure Prophylaxis</i>	3.87	0.42
<i>Salmonellosis</i>	23.21	1.31
<i>Shigellosis</i>	11.60	0.81
<i>Strep Pneumoniae, Drug-Resistant</i>	7.74	1.67
<i>Tb Infection</i>	23.21	0.47
<i>Tuberculosis</i>	3.87	2.28
<i>Varicella (Chickenpox)</i>	3.87	1.46

¹ Rates are Year-to-Date Counts per 100,000 population for Week 50, 2016

² The relative rate is computed as the county or district rate divided by the overall state rate

³ Relative rate between 2.0 and 3.0

⁴ Relative rate above 3.0

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Reports
Comparison of 4-week Count Mean for Week 50, 2016 with Historical Limits

Audrain County

<i>Disease or Condition</i>	<i>Analysis Results¹</i>	<i>4-week Count Mean for Week 50²</i>	<i>Upper Limit for Week 50³</i>	<i>4-week Count Mean for Week 49²</i>	<i>Upper Limit for Week 49³</i>	<i>4-week Count Mean for Week 48²</i>	<i>Upper Limit for Week 48³</i>
Hepatitis C, Chronic Infection		0.0	1.7	0.3	1.7	0.5	1.7

¹ **Analysis Results Legend for Week 50:**

The 4-week Count mean is between the Historical Mean and the Historical Mean plus 1 Std. Dev.

The 4-week Count mean is between the Historical Mean plus 1 Std. Dev. and the Historical Mean plus 2 Std. Dev.

The 4-week Count mean is between the Historical Mean plus 2 Std. Dev. and the Historical Mean plus 3 Std. Dev.

The 4-week Count mean is above the Historical Mean plus 3 Std. Dev.

² **4-week Count mean based on the current and 3 previous weeks.**

³ **The Historical Count mean plus two standard deviations based on the current week, 7 previous weeks and 4 subsequents or leading weeks for the past five years.**

Weekly Communicable Disease Reports

4-week Count Mean Z-Scores for Week 50, 2016

(Z-Scores greater than 2.0)

Audrain County