

Missouri Department of Health and Senior  
Services (DHSS)

Weekly Communicable Disease Report  
for the

**Lawrence County**

Missouri Department of Health and Senior Services (DHSS)

**Weekly Communicable Disease Report**

for the

**Lawrence 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**

**Lawrence County**

Disease or Condition	Week 50 YTD <sup>1</sup>	Week 49 YTD <sup>1</sup>	Week 48 YTD <sup>1</sup>	Five Year 1 <sup>st</sup> Quartile	Five Year Median	Five Year 3 <sup>rd</sup> 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 Reported <sup>2</sup>	Last Week Reported <sup>2</sup>
Animal Bites	52	52	52	No Data	46	No Data	0.0%	14.3%	147.71	1.17	1	51
Campylobacteriosis	20	20	20	7	12	13	0.0%	66.7%	56.81	2.46	10	45
Cryptosporidiosis	12	12	12	4	4	5	0.0%	200.0%	34.09	4.73	28	46
E Coli Shiga Toxin Positive	5	5	5	1	3	5	0.0%	100.0%	14.20	4.20	4	25
E. Coli O157 H7	2	2	2	1	2	3	0.0%	0.0%	5.68	2.41	19	42
Ehrlichia chaffeensis	1	1	1	1	2	3	0.0%	( 50.0%)	2.84	0.70	20	20
Hemolytic Uremic Syndrome	1	1	1	1	1	1	0.0%	0.0%	2.84	8.83	19	19
Hepatitis B Chronic Infection	2	2	2	2	3	4	0.0%	( 20.0%)	5.68	0.79	14	33
Hepatitis C, Chronic Infection	20	20	20	27	35	38	0.0%	( 42.9%)	56.81	0.67	1	45
Influenza	1	0	0	No Data	5	No Data	0.0%	( 81.0%)	2.84	0.21	50	50
Pertussis	1	1	1	1	4	7	0.0%	( 75.0%)	2.84	0.51	4	4
Rabies Post Exposure Prophylaxis	2	2	2	No Data	3	No Data	0.0%	( 33.3%)	5.68	0.62	3	36
Rocky Mountain Spotted Fever	3	3	3	3	4	4	0.0%	( 25.0%)	8.52	1.34	17	34
Salmonellosis	4	4	4	4	6	7	0.0%	( 33.3%)	11.36	0.64	14	42
Shigellosis	8	8	8	1	1	1	0.0%	700.0%	22.72	1.60	4	32
Strep Pneumoniae, Drug-Resistant	3	3	3	1	2	3	0.0%	50.0%	8.52	1.84	1	19
Tb Infection	14	14	14	7	7	8	0.0%	100.0%	39.77	0.80	9	48
Toxic Shock (Strep) Syndrome	1	1	0	No Data	0	No Data	0.0%	0.0%	2.84	26.49	49	49
Tularemia	2	1	1	1	1	1	100.0%	100.0%	5.68	7.39	45	50
Varicella (Chickenpox)	4	4	4	No Data	3	No Data	0.0%	53.8%	11.36	4.30	12	46

<sup>1</sup> 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.

<sup>2</sup> 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**  
**Lawrence County**

Disease or Condition	Data Status <sup>1,2</sup>	1 <sup>st</sup> Week Reported Current Report	1 <sup>st</sup> Week Reported Last Report	Change in Count	Week 50 Quartile Results <sup>3</sup>	Week 49 Quartile Results <sup>4</sup>	Data Trend Analysis <sup>5</sup>	Data Elevation Analysis <sup>6</sup>
Animal Bites	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Campylobacteriosis	Old	10	10	0	Above Maximum	Above Maximum	Flat	Very Elevated
Cryptosporidiosis	Old	28	28	0	Above Maximum	Above Maximum	Flat	Very Elevated
E Coli Shiga Toxin Positive	Old	4	4	0	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Flat	Elevated
E. Coli O157 H7	Old	19	19	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Hemolytic Uremic Syndrome	Old	19	19	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	14	14	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Influenza	New	50		1	Below Median	Below Median	Increase	Below Normal
Pertussis	Old	4	4	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	3	3	0	Below Median	Below Median	Flat	Below Normal
Rocky Mountain Spotted Fever	Old	17	17	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	14	14	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	4	4	0	Above Maximum	Above Maximum	Flat	Very Elevated
Strep Pneumoniae, Drug-Resistant	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Tb Infection	Old	9	9	0	Above Maximum	Above Maximum	Flat	Very Elevated
Toxic Shock (Strep) Syndrome	Old	49	49	0	Above Median	Above Median	Flat	Above Normal
Tularemia	Old	45	45	1	Above Maximum	Below Median	Increase	Very Elevated
Varicella (Chickenpox)	Old	12	12	0	Above Median	Above Median	Flat	Above Normal

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

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

<sup>3</sup> Week 50 Quartile Results are from the Current Report

<sup>4</sup> Week 49 Quartile Results are from the Last Report

<sup>5</sup> Based on Change in Count Current Report vs Last Report

<sup>6</sup> Based on Quartile Analysis from Current Report where: Below Normal=below median, Above Normal= above median, Elevated=above 3<sup>rd</sup> 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> <sup>1</sup>	<i>Relative Rate</i> <sup>2,3,4</sup>
<i>Animal Bites</i>	147.71	1.17
<i>Campylobacteriosis</i>	56.81	2.46
<i>Cryptosporidiosis</i>	34.09	4.73
<i>E Coli Shiga Toxin Positive</i>	14.20	4.20
<i>E. Coli O157 H7</i>	5.68	2.41
<i>Ehrlichia chaffeensis</i>	2.84	0.70
<i>Hemolytic Uremic Syndrome</i>	2.84	8.83
<i>Hepatitis B Chronic Infection</i>	5.68	0.79
<i>Hepatitis C, Chronic Infection</i>	56.81	0.67
<i>Influenza</i>	2.84	0.21
<i>Pertussis</i>	2.84	0.51
<i>Rabies Post Exposure Prophylaxis</i>	5.68	0.62
<i>Rocky Mountain Spotted Fever</i>	8.52	1.34
<i>Salmonellosis</i>	11.36	0.64
<i>Shigellosis</i>	22.72	1.60
<i>Strep Pneumoniae, Drug-Resistant</i>	8.52	1.84
<i>Tb Infection</i>	39.77	0.80
<i>Toxic Shock (Strep) Syndrome</i>	2.84	26.49
<i>Tularemia</i>	5.68	7.39
<i>Varicella (Chickenpox)</i>	11.36	4.30

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

<sup>2</sup> The relative rate is computed as the county or district rate divided by the overall state rate

<sup>3</sup> Relative rate between 2.0 and 3.0

<sup>4</sup> 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**

**Lawrence County**

<i>Disease or Condition</i>	<i>Analysis Results <sup>1</sup></i>	<i>4-week Count Mean for Week 50 <sup>2</sup></i>	<i>Upper Limit for Week 50 <sup>3</sup></i>	<i>4-week Count Mean for Week 49 <sup>2</sup></i>	<i>Upper Limit for Week 49 <sup>3</sup></i>	<i>4-week Count Mean for Week 48 <sup>2</sup></i>	<i>Upper Limit for Week 48 <sup>3</sup></i>
Campylobacteriosis		0.0	0.7	0.0	0.7	0.3	0.7
Hepatitis C, Chronic Infection		0.0	1.7	0.0	1.7	0.3	1.6

<sup>1</sup> 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.

<sup>2</sup> 4-week Count mean based on the current and 3 previous weeks.

<sup>3</sup> 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)

**Lawrence County**