

Missouri Department of Health and Senior  
Services (DHSS)

Weekly Communicable Disease Report  
for the

**Butler County**

Missouri Department of Health and Senior Services (DHSS)

**Weekly Communicable Disease Report**

for the

**Butler 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**

**Butler County**

<b>Disease or Condition</b>	<b>Week 50 YTD<sup>1</sup></b>	<b>Week 49 YTD<sup>1</sup></b>	<b>Week 48 YTD<sup>1</sup></b>	<b>Five Year 1<sup>st</sup> Quartile</b>	<b>Five Year Median</b>	<b>Five Year 3<sup>rd</sup> Quartile</b>	<b>Change from Week 49 to Week 50</b>	<b>Change from Week 50 to 5-Year Median</b>	<b>Rate per 100,000 Week 50</b>	<b>Relative Rate Week 50</b>	<b>First Week Reported<sup>2</sup></b>	<b>Last Week Reported<sup>2</sup></b>
Animal Bites	42	42	42	No Data	40	No Data	0.0%	4.3%	102.77	0.81	2	47
Campylobacteriosis	2	2	2	3	5	6	0.0%	( 60.0%)	4.89	0.21	9	12
Ehrlichia chaffeensis	3	3	3	1	2	3	0.0%	100.0%	7.34	1.80	19	36
Giardiasis	1	1	1	1	1	3	0.0%	0.0%	2.45	0.42	1	1
Hepatitis B (Pregnancy) Prenatal	1	1	1	2	2	2	0.0%	( 50.0%)	2.45	1.40	18	18
Hepatitis B Chronic Infection	2	2	2	5	5	5	0.0%	( 60.0%)	4.89	0.68	9	33
Hepatitis C, Chronic Infection	92	92	92	88	99	106	0.0%	( 7.1%)	225.12	2.66	1	46
Influenza	25	22	20	No Data	24	No Data	13.6%	3.3%	61.17	4.50	40	50
Pertussis	3	3	3	15	15	15	0.0%	( 80.0%)	7.34	1.32	19	45
Rabies Post Exposure Prophylaxis	5	5	5	No Data	2	No Data	0.0%	150.0%	12.23	1.33	8	40
Rocky Mountain Spotted Fever	1	1	1	1	3	15	0.0%	( 66.7%)	2.45	0.38	30	30
Salmonellosis	13	12	12	19	19	23	8.3%	( 31.6%)	31.81	1.80	2	50
Tb Infection	24	24	24	11	17	19	0.0%	41.2%	58.73	1.19	5	45

<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**

**Butler County**

<i>Disease or Condition</i>	<i>Data Status</i> <sup>1,2</sup>	<i>1<sup>st</sup> Week Reported Current Report</i>	<i>1<sup>st</sup> Week Reported Last Report</i>	<i>Change in Count</i>	<i>Week 50 Quartile Results</i> <sup>3</sup>	<i>Week 49 Quartile Results</i> <sup>4</sup>	<i>Data Trend Analysis</i> <sup>5</sup>	<i>Data Elevation Analysis</i> <sup>6</sup>
Animal Bites	Old	2	2	0	Above Median	Above Median	Flat	Above Normal
Campylobacteriosis	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	19	19	0	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Flat	Elevated
Giardiasis	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	18	18	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Influenza	Old	40	40	5	Above Median	Above Median	Increase	Above Normal
Pertussis	Old	19	19	2	Below Median	Below Median	Increase	Below Normal
Rabies Post Exposure Prophylaxis	Old	8	8	3	Above Median	Below Median	Increase	Above Normal
Rocky Mountain Spotted Fever	Old	30	30	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	2	2	1	Below Median	Below Median	Increase	Below Normal
Tb Infection	Old	5	5	0	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Flat	Elevated

<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>	102.77	0.81
<i>Campylobacteriosis</i>	4.89	0.21
<i>Ehrlichia chaffeensis</i>	7.34	1.80
<i>Giardiasis</i>	2.45	0.42
<i>Hepatitis B (Pregnancy) Prenatal</i>	2.45	1.40
<i>Hepatitis B Chronic Infection</i>	4.89	0.68
<i>Hepatitis C, Chronic Infection</i>	225.12	2.66
<i>Influenza</i>	61.17	4.50
<i>Pertussis</i>	7.34	1.32
<i>Rabies Post Exposure Prophylaxis</i>	12.23	1.33
<i>Rocky Mountain Spotted Fever</i>	2.45	0.38
<i>Salmonellosis</i>	31.81	1.80
<i>Tb Infection</i>	58.73	1.19

<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**

**Butler 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>
Hepatitis C, Chronic Infection		0.0	3.3	0.3	3.4	1.0	3.5
Rocky Mountain Spotted Fever		0.0	0.2	0.0	0.2	0.0	0.3
Salmonellosis		0.3	1.3	0.0	1.4	0.0	1.5

<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)*

***Butler County***