

Missouri Department of Health and Senior  
Services (DHSS)

Weekly Communicable Disease Report  
for the

**Buchanan County**

Missouri Department of Health and Senior Services (DHSS)

**Weekly Communicable Disease Report**

for the

**Buchanan 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**

**Buchanan 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	162	162	160	No Data	169	No Data	0.0%	( 4.0%)	188.38	1.49	1	49
Campylobacteriosis	17	17	17	1	3	5	0.0%	466.7%	19.77	0.86	12	46
Cryptosporidiosis	6	6	6	7	10	12	0.0%	( 40.0%)	6.98	0.97	10	37
Cyclosporiasis	3	3	3	No Data	0	No Data	0.0%	0.0%	3.49	8.87	31	37
E Coli Shiga Toxin Positive	3	3	3	1	2	2	0.0%	100.0%	3.49	1.03	9	45
E. Coli O157 H7	3	3	3	1	1	1	0.0%	200.0%	3.49	1.48	17	25
Giardiasis	5	5	5	3	4	6	0.0%	25.0%	5.81	1.01	14	38
Haemophilus Influenzae, Invasive	2	2	2	2	2	3	0.0%	0.0%	2.33	0.97	9	20
Hepatitis A Acute	1	1	1	1	1	1	0.0%	0.0%	1.16	4.34	3	3
Hepatitis B (Pregnancy) Prenatal	4	3	3	3	4	5	33.3%	14.3%	4.65	2.66	21	50
Hepatitis B Acute	1	1	1	2	2	4	0.0%	( 50.0%)	1.16	1.76	36	36
Hepatitis B Chronic Infection	9	9	9	9	10	10	0.0%	( 10.0%)	10.47	1.46	12	46
Hepatitis C, Chronic Infection	119	118	116	91	140	146	0.8%	( 15.0%)	138.38	1.64	1	50
Influenza	53	35	26	No Data	190	No Data	51.4%	( 72.2%)	61.63	4.54	43	50
Legionellosis	1	1	1	No Data	0	No Data	0.0%	0.0%	1.16	0.43	39	39
Lyme	1	1	0	No Data	0	No Data	0.0%	0.0%	1.16	4.65	49	49
Mumps	1	1	1	No Data	0	No Data	0.0%	0.0%	1.16	0.39	48	48
Pertussis	1	1	1	1	2	3	0.0%	( 50.0%)	1.16	0.21	5	5
Rabies Animal	1	1	1	1	1	5	0.0%	0.0%	1.16	2.50	32	32
Salmonellosis	11	11	11	9	9	11	0.0%	22.2%	12.79	0.72	3	44
Shigellosis	43	43	42	1	2	20	0.0%	2050.0%	50.00	3.51	1	49
Strep Disease, Group A Invasive	2	2	2	3	4	4	0.0%	( 42.9%)	2.33	1.08	7	9
Strep Pneumoniae, <5 Years, Invasive	1	1	1	1	1	1	0.0%	0.0%	1.16	10.84	18	18
Strep Pneumoniae, Drug-Resistant	3	3	3	2	4	6	0.0%	( 14.3%)	3.49	0.75	38	46
Tb Infection	35	35	35	21	22	27	0.0%	59.1%	40.70	0.82	1	48
Tuberculosis	2	2	2	1	2	3	0.0%	0.0%	2.33	1.37	5	12
Tularemia	1	1	1	No Data	0	No Data	0.0%	0.0%	1.16	1.51	37	37
Varicella (Chickenpox)	4	4	4	No Data	6	No Data	0.0%	( 27.3%)	4.65	1.76	21	22

<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**  
**Buchanan 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	1	1	1	Below Median	Below Median	Increase	Below Normal
Campylobacteriosis	Old	12	12	1	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Increase	Elevated
Cryptosporidiosis	Old	10	10	0	Below Median	Below Median	Flat	Below Normal
Cyclosporiasis	Old	31	31	0	Above Median	Above Median	Flat	Above Normal
E Coli Shiga Toxin Positive	Old	9	9	0	Above Maximum	Above Maximum	Flat	Very Elevated
E. Coli O157 H7	Old	17	17	0	Above Maximum	Above Maximum	Flat	Very Elevated
Giardiasis	Old	14	14	0	Above Median	Above Median	Flat	Above Normal
Haemophilus Influenzae, Invasive	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
Hepatitis A Acute	Old	3	3	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	21	21	1	Above Median	Below Median	Increase	Above Normal
Hepatitis B Acute	Old	36	36	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	4	Below Median	Below Median	Increase	Below Normal
Influenza	Old	43	43	18	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	39	39	0	Above Median	Above Median	Flat	Above Normal
Lyme	Old	49		1	Above Median	Below Median	Increase	Above Normal
Mumps	Old	48	48	0	Above Median	Above Median	Flat	Above Normal
Pertussis	Old	5	5	0	Below Median	Below Median	Flat	Below 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 for Week 50, 2016  
 Disease or Condition Analysis  
 Relative to Last Report run on 12/13/2016 for Week 49, 2016

**Buchanan 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>
Rabies Animal	Old	32	32	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Shigellosis	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Strep Disease, Group A Invasive	Old	7	7	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, <5 Years, Invasive	Old	18	18	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	38	38	0	Below Median	Below Median	Flat	Below Normal
Tb Infection	Old	1	1	1	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Increase	Elevated
Tuberculosis	Old	5	5	-1	Below Median	Above Median	Decrease	Below Normal
Tularemia	Old	37	37	0	Above Median	Above Median	Flat	Above Normal
Varicella (Chickenpox)	Old	21	21	0	Below Median	Below Median	Flat	Below 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>	188.38	1.49
<i>Campylobacteriosis</i>	19.77	0.86
<i>Cryptosporidiosis</i>	6.98	0.97
<i>Cyclosporiasis</i>	3.49	8.87
<i>E Coli Shiga Toxin Positive</i>	3.49	1.03
<i>E. Coli O157 H7</i>	3.49	1.48
<i>Giardiasis</i>	5.81	1.01
<i>Haemophilus Influenzae, Invasive</i>	2.33	0.97
<i>Hepatitis A Acute</i>	1.16	4.34
<i>Hepatitis B (Pregnancy) Prenatal</i>	4.65	2.66
<i>Hepatitis B Acute</i>	1.16	1.76
<i>Hepatitis B Chronic Infection</i>	10.47	1.46
<i>Hepatitis C, Chronic Infection</i>	138.38	1.64
<i>Influenza</i>	61.63	4.54
<i>Legionellosis</i>	1.16	0.43
<i>Lyme</i>	1.16	4.65
<i>Mumps</i>	1.16	0.39
<i>Pertussis</i>	1.16	0.21
<i>Rabies Animal</i>	1.16	2.50
<i>Salmonellosis</i>	12.79	0.72
<i>Shigellosis</i>	50.00	3.51
<i>Strep Disease, Group A Invasive</i>	2.33	1.08
<i>Strep Pneumoniae, &lt;5 Years, Invasive</i>	1.16	10.84
<i>Strep Pneumoniae, Drug-Resistant</i>	3.49	0.75
<i>Tb Infection</i>	40.70	0.82
<i>Tuberculosis</i>	2.33	1.37
<i>Tularemia</i>	1.16	1.51
<i>Varicella (Chickenpox)</i>	4.65	1.76

<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**

**Buchanan 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>
Cryptosporidiosis		0.0	0.5	0.0	0.5	0.0	0.5
Hepatitis B Acute		0.0	0.4	0.0	0.4	0.0	0.4
Hepatitis B Chronic Infection		0.0	0.5	0.3	0.5	0.5	0.6
Hepatitis C, Chronic Infection		0.8	5.1	1.3	5.1	1.8	5.2
Salmonellosis		0.0	0.7	0.0	0.7	0.0	0.7

<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.

**Buchanan County**