

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Pulaski County

Missouri Department of Health and Senior Services (DHSS)

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Pulaski 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

Pulaski 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	96	95	94	No Data	63	No Data	1.1%	52.0%	233.21	1.85	6	50
Campylobacteriosis	6	6	6	2	2	3	0.0%	200.0%	14.58	0.63	4	35
Cryptosporidiosis	1	1	1	1	1	1	0.0%	0.0%	2.43	0.34	28	28
E Coli Shiga Toxin Positive	1	1	1	1	2	2	0.0%	(33.3%)	2.43	0.72	22	22
Ehrlichia chaffeensis	4	4	4	2	2	3	0.0%	100.0%	9.72	2.38	19	29
Giardiasis	5	5	5	2	2	4	0.0%	150.0%	12.15	2.10	4	40
Hepatitis B (Pregnancy) Prenatal	1	1	1	1	1	1	0.0%	0.0%	2.43	1.39	33	33
Hepatitis B Acute	2	2	2	1	3	4	0.0%	(20.0%)	4.86	7.35	5	29
Hepatitis B Chronic Infection	3	3	3	2	2	7	0.0%	50.0%	7.29	1.02	16	44
Hepatitis C, Chronic Infection	28	28	28	28	32	48	0.0%	(12.5%)	68.02	0.81	1	47
Influenza	3	3	3	No Data	6	No Data	0.0%	(48.3%)	7.29	0.54	43	48
Mumps	2	1	0	No Data	0	No Data	100.0%	0.0%	4.86	1.63	49	50
Rabies Post Exposure Prophylaxis	11	11	11	No Data	3	No Data	0.0%	238.5%	26.72	2.90	6	36
Rocky Mountain Spotted Fever	2	2	2	2	3	5	0.0%	(33.3%)	4.86	0.76	33	43
Salmonellosis	7	7	7	5	5	7	0.0%	40.0%	17.00	0.96	1	40
Shigellosis	1	1	1	1	2	2	0.0%	(50.0%)	2.43	0.17	27	27
Strep Pneumoniae, Drug-Resistant	1	1	1	1	1	1	0.0%	0.0%	2.43	0.52	6	6
Tb Infection	2	2	2	4	9	10	0.0%	(77.8%)	4.86	0.10	31	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

Pulaski 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	6	6	1	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	4	4	0	Above Maximum	Above Maximum	Flat	Very Elevated
Cryptosporidiosis	Old	28	28	0	Below Median	Below Median	Flat	Below Normal
E Coli Shiga Toxin Positive	Old	22	22	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	19	19	0	Above Maximum	Above Maximum	Flat	Very Elevated
Giardiasis	Old	4	4	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Hepatitis B (Pregnancy) Prenatal	Old	33	33	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Acute	Old	5	5	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	16	16	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C, Chronic Infection	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Influenza	Old	43	43	0	Below Median	Below Median	Flat	Below Normal
Mumps	Old	49		2	Above Median	Below Median	Increase	Above Normal
Rabies Post Exposure Prophylaxis	Old	6	6	0	Above Median	Above Median	Flat	Above Normal
Rocky Mountain Spotted Fever	Old	33	33	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Shigellosis	Old	27	27	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	6	6	0	Below Median	Below Median	Flat	Below Normal
Tb Infection	Old	31	31	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>	233.21	1.85
<i>Campylobacteriosis</i>	14.58	0.63
<i>Cryptosporidiosis</i>	2.43	0.34
<i>E Coli Shiga Toxin Positive</i>	2.43	0.72
<i>Ehrlichia chaffeensis</i>	9.72	2.38
<i>Giardiasis</i>	12.15	2.10
<i>Hepatitis B (Pregnancy) Prenatal</i>	2.43	1.39
<i>Hepatitis B Acute</i>	4.86	7.35
<i>Hepatitis B Chronic Infection</i>	7.29	1.02
<i>Hepatitis C, Chronic Infection</i>	68.02	0.81
<i>Influenza</i>	7.29	0.54
<i>Mumps</i>	4.86	1.63
<i>Rabies Post Exposure Prophylaxis</i>	26.72	2.90
<i>Rocky Mountain Spotted Fever</i>	4.86	0.76
<i>Salmonellosis</i>	17.00	0.96
<i>Shigellosis</i>	2.43	0.17
<i>Strep Pneumoniae, Drug-Resistant</i>	2.43	0.52
<i>Tb Infection</i>	4.86	0.10

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

Pulaski County

<i>Disease or Condition</i>	<i>Analysis Results ¹</i>	<i>4-week Count Mean for Week 50 ²</i>	<i>Upper Limit for Week 50 ³</i>	<i>4-week Count Mean for Week 49 ²</i>	<i>Upper Limit for Week 49 ³</i>	<i>4-week Count Mean for Week 48 ²</i>	<i>Upper Limit for Week 48 ³</i>
Hepatitis C, Chronic Infection		0.3	1.3	0.5	1.3	0.5	1.4
Salmonellosis		0.0	0.5	0.0	0.5	0.0	0.5

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.

Pulaski County