

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Cass County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Cass 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

Cass County

<i>Disease or Condition</i>	<i>Week 50 YTD¹</i>	<i>Week 49 YTD¹</i>	<i>Week 48 YTD¹</i>	<i>Five Year 1st Quartile</i>	<i>Five Year Median</i>	<i>Five Year 3rd Quartile</i>	<i>Change from Week 49 to Week 50</i>	<i>Change from Week 50 to 5-Year Median</i>	<i>Rate per 100,000 Week 50</i>	<i>Relative Rate Week 50</i>	<i>First Week Reported²</i>	<i>Last Week Reported²</i>
Animal Bites	97	96	94	No Data	43	No Data	1.0%	128.2%	118.31	0.94	1	50
Campylobacteriosis	28	28	28	6	19	20	0.0%	47.4%	34.15	1.48	2	46
Cryptosporidiosis	7	7	7	2	4	6	0.0%	75.0%	8.54	1.19	14	41
E Coli Shiga Toxin Positive	1	1	1	2	2	3	0.0%	(50.0%)	1.22	0.36	28	28
E. Coli O157 H7	7	7	7	1	2	2	0.0%	366.7%	8.54	3.62	18	41
Ehrlichia chaffeensis	1	1	1	1	1	2	0.0%	0.0%	1.22	0.30	27	27
Giardiasis	2	2	2	4	4	5	0.0%	(50.0%)	2.44	0.42	11	19
Hepatitis B (Pregnancy) Prenatal	1	0	0	1	1	2	0.0%	0.0%	1.22	0.70	50	50
Hepatitis B Chronic Infection	3	3	3	2	2	2	0.0%	50.0%	3.66	0.51	17	46
Hepatitis C, Chronic Infection	45	45	44	37	41	43	0.0%	9.8%	54.89	0.65	1	49
Influenza	6	6	5	No Data	54	No Data	0.0%	(88.8%)	7.32	0.54	41	49
Legionellosis	2	2	2	1	2	3	0.0%	0.0%	2.44	0.90	18	22
Malaria	1	1	1	1	1	1	0.0%	0.0%	1.22	4.01	19	19
Pertussis	7	6	6	8	8	12	16.7%	(12.5%)	8.54	1.54	4	50
Rabies Animal	1	1	1	1	1	1	0.0%	0.0%	1.22	2.62	40	40
Rabies Post Exposure Prophylaxis	18	18	18	No Data	4	No Data	0.0%	328.6%	21.95	2.39	3	41
Rocky Mountain Spotted Fever	3	3	3	2	3	6	0.0%	0.0%	3.66	0.57	21	26
Salmonellosis	11	11	11	11	11	18	0.0%	0.0%	13.42	0.76	8	42
Shigellosis	7	7	6	1	1	2	0.0%	600.0%	8.54	0.60	1	49
Strep Disease, Group A Invasive	2	2	2	2	2	3	0.0%	0.0%	2.44	1.13	6	10
Strep Pneumoniae, Drug-Resistant	2	2	2	2	3	4	0.0%	(33.3%)	2.44	0.53	7	32
Tb Infection	10	10	10	14	17	20	0.0%	(41.2%)	12.20	0.25	5	43
Tularemia	2	2	2	1	1	1	0.0%	100.0%	2.44	3.17	9	45
Yersiniosis	1	1	1	No Data	0	No Data	0.0%	0.0%	1.22	2.62	17	17

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

Cass 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	3	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	2	2	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Cryptosporidiosis	Old	14	14	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
E Coli Shiga Toxin Positive	Old	28	28	0	Below Median	Below Median	Flat	Below Normal
E. Coli O157 H7	Old	18	18	0	Above Maximum	Above Maximum	Flat	Very Elevated
Ehrlichia chaffeensis	Old	27	27	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	New	50		1	Below Median	Below Median	Increase	Below Normal
Hepatitis B Chronic Infection	Old	17	17	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis C, Chronic Infection	Old	1	1	2	Above Maximum	Above 3 rd Quartile	Increase	Very Elevated
Influenza	Old	41	41	1	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	18	18	0	Below Median	Below Median	Flat	Below Normal
Malaria	Old	19	19	0	Below Median	Below Median	Flat	Below Normal
Pertussis	Old	4	4	1	Below Median	Below Median	Increase	Below Normal
Rabies Animal	Old	40	40	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Rocky Mountain Spotted Fever	Old	21	21	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	8	8	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Strep Disease, Group A Invasive	Old	6	6	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	7	7	0	Below Median	Below Median	Flat	Below Normal
Tb Infection	Old	5	5	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 for Week 50, 2016
 Disease or Condition Analysis
 Relative to Last Report run on 12/13/2016 for Week 49, 2016

Cass County

Disease or Condition	Data Status ^{1,2}	1 st Week Reported Current Report	1 st Week Reported Last Report	Change in Count	Week 50 Quartile Results ³	Week 49 Quartile Results ⁴	Data Trend Analysis ⁵	Data Elevation Analysis ⁶
Tularemia	Old	9	9	0	Above Maximum	Above Maximum	Flat	Very Elevated
Yersiniosis	Old	17	17	0	Above Median	Above Median	Flat	Above 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>	118.31	0.94
<i>Campylobacteriosis</i>	34.15	1.48
<i>Cryptosporidiosis</i>	8.54	1.19
<i>E Coli Shiga Toxin Positive</i>	1.22	0.36
<i>E. Coli O157 H7</i>	8.54	3.62
<i>Ehrlichia chaffeensis</i>	1.22	0.30
<i>Giardiasis</i>	2.44	0.42
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.22	0.70
<i>Hepatitis B Chronic Infection</i>	3.66	0.51
<i>Hepatitis C, Chronic Infection</i>	54.89	0.65
<i>Influenza</i>	7.32	0.54
<i>Legionellosis</i>	2.44	0.90
<i>Malaria</i>	1.22	4.01
<i>Pertussis</i>	8.54	1.54
<i>Rabies Animal</i>	1.22	2.62
<i>Rabies Post Exposure Prophylaxis</i>	21.95	2.39
<i>Rocky Mountain Spotted Fever</i>	3.66	0.57
<i>Salmonellosis</i>	13.42	0.76
<i>Shigellosis</i>	8.54	0.60
<i>Strep Disease, Group A Invasive</i>	2.44	1.13
<i>Strep Pneumoniae, Drug-Resistant</i>	2.44	0.53
<i>Tb Infection</i>	12.20	0.25
<i>Tularemia</i>	2.44	3.17
<i>Yersiniosis</i>	1.22	2.62

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

Cass 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>
Campylobacteriosis		0.0	0.9	0.3	0.9	0.3	0.9
Cryptosporidiosis		0.0	0.1	0.0	0.1	0.0	0.1
Hepatitis C, Chronic Infection		0.3	1.8	0.8	1.9	1.0	2.0
Pertussis		0.3	0.9	0.5	0.5	0.5	0.3
Salmonellosis		0.0	0.7	0.0	0.7	0.0	0.7

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)

Cass County