

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

St Charles County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

St Charles 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

St Charles 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
Anaplasma phagocytophilum	2	2	2	1	1	1	0.0%	100.0%	0.70	3.94	5	30
Animal Bites	19	19	19	No Data	330	No Data	0.0%	(94.2%)	6.69	0.05	1	47
Campylobacteriosis	33	32	31	40	43	44	3.1%	(23.3%)	11.62	0.50	3	50
Creutzfeldt-Jakob Disease (CJD)	2	2	2	1	1	1	0.0%	100.0%	0.70	3.94	14	19
Cryptosporidiosis	15	15	15	4	6	9	0.0%	150.0%	5.28	0.73	22	44
Cyclosporiasis	2	2	2	No Data	0	No Data	0.0%	0.0%	0.70	1.79	28	29
Dengue Fever	1	1	1	1	1	1	0.0%	0.0%	0.35	1.64	29	29
E Coli Shiga Toxin Positive	1	1	1	8	11	11	0.0%	(90.9%)	0.35	0.10	28	28
E. Coli O157 H7	4	4	4	5	7	12	0.0%	(42.9%)	1.41	0.60	24	48
Ehrlichia chaffeensis	5	5	5	5	6	10	0.0%	(16.7%)	1.76	0.43	28	39
Giardiasis	11	11	11	12	12	12	0.0%	(8.3%)	3.87	0.67	8	43
Haemophilus Influenzae, Invasive	9	9	9	4	4	5	0.0%	125.0%	3.17	1.32	1	42
Hepatitis A Acute	1	1	1	1	2	3	0.0%	(50.0%)	0.35	1.31	45	45
Hepatitis B (Pregnancy) Prenatal	1	1	1	5	5	7	0.0%	(80.0%)	0.35	0.20	29	29
Hepatitis B Acute	2	2	2	2	3	3	0.0%	(33.3%)	0.70	1.07	24	32
Hepatitis B Chronic Infection	13	13	13	13	14	19	0.0%	(7.1%)	4.58	0.64	1	46
Hepatitis C, Chronic Infection	137	137	135	128	133	149	0.0%	3.0%	48.26	0.57	1	49
Influenza	3	3	3	No Data	285	No Data	0.0%	(98.9%)	1.06	0.08	41	41
Legionellosis	12	12	12	4	5	5	0.0%	166.7%	4.23	1.56	19	34
Meningococcal Disease	1	1	1	1	2	2	0.0%	(50.0%)	0.35	4.93	11	11
Pertussis	5	5	5	23	24	40	0.0%	(79.2%)	1.76	0.32	2	48
Rabies Animal	1	1	1	1	1	1	0.0%	0.0%	0.35	0.76	42	42
Rabies Post Exposure Prophylaxis	21	21	21	No Data	15	No Data	0.0%	38.2%	7.40	0.80	1	47
Rocky Mountain Spotted Fever	4	4	4	5	5	7	0.0%	(20.0%)	1.41	0.22	17	35
Salmonellosis	46	46	46	39	40	41	0.0%	15.0%	16.20	0.92	2	48
Shiga Toxin + (Non E. Coli/Unknown Organism)	2	1	1	1	1	1	100.0%	100.0%	0.70	3.58	23	50
Shigellosis	9	9	9	4	4	31	0.0%	125.0%	3.17	0.22	2	46

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
 Quartile Analysis of Year-to-date Counts for Week 50, 2016

St Charles County

Disease or Condition	Week 50 YTD ¹	Week 49 YTD ¹	Week 48 YTD ¹	Five Year 1 st Quartile	Five Year Median	Five Year 3 rd 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 ²	Last Week Reported ²
Staph Aureus VISA	3	3	3	2	10	13	0.0%	(70.0%)	1.06	2.46	13	42
Strep Disease, Group A Invasive	4	4	4	5	8	11	0.0%	(50.0%)	1.41	0.65	5	46
Strep Pneumoniae, Drug-Resistant	20	20	19	4	4	6	0.0%	400.0%	7.05	1.52	1	49
Tb Infection	75	73	70	66	81	100	2.7%	(7.4%)	26.42	0.53	2	50
Tuberculosis	2	2	2	2	2	4	0.0%	0.0%	0.70	0.41	5	31
Tularemia	1	1	1	1	1	2	0.0%	0.0%	0.35	0.46	23	23
Vibriosis	1	1	1	1	1	1	0.0%	0.0%	0.35	3.28	36	36

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

St Charles 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
Anaplasma phagocytophilum	Old	5	5	0	Above Maximum	Above Maximum	Flat	Very Elevated
Animal Bites	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Campylobacteriosis	Old	3	3	1	Below Median	Below Median	Increase	Below Normal
Creutzfeldt-Jakob Disease (CJD)	Old	14	14	0	Above Maximum	Above Maximum	Flat	Very Elevated
Cryptosporidiosis	Old	22	22	0	Above Maximum	Above Maximum	Flat	Very Elevated
Cyclosporiasis	Old	28	28	0	Above Median	Above Median	Flat	Above Normal
Dengue Fever	Old	29	29	0	Below Median	Below Median	Flat	Below Normal
E Coli Shiga Toxin Positive	Old	28	28	0	Below Median	Below Median	Flat	Below Normal
E. Coli O157 H7	Old	24	24	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	28	28	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	8	8	0	Below Median	Below Median	Flat	Below Normal
Haemophilus Influenzae, Invasive	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis A Acute	Old	45	45	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	29	29	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Acute	Old	24	24	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	4	Above Median	Above Median	Increase	Above Normal
Influenza	Old	41	41	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

St Charles 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
Legionellosis	Old	19	19	0	Above Maximum	Above Maximum	Flat	Very Elevated
Meningococcal Disease	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Pertussis	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Rabies Animal	Old	42	42	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Rocky Mountain Spotted Fever	Old	17	17	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	2	2	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Shiga Toxin + (Non E. Coli/Unknown Organism)	Old	23	23	1	Above Maximum	Below Median	Increase	Very Elevated
Shigellosis	Old	2	2	0	Above Median	Above Median	Flat	Above Normal
Staph Aureus VISA	Old	13	13	0	Below Median	Below Median	Flat	Below Normal
Strep Disease, Group A Invasive	Old	5	5	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Tb Infection	Old	2	2	6	Below Median	Below Median	Increase	Below Normal
Tuberculosis	Old	5	5	0	Below Median	Below Median	Flat	Below Normal
Tularemia	Old	23	23	0	Below Median	Below Median	Flat	Below Normal
Vibriosis	Old	36	36	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>Anaplasma phagocytophilum</i>	0.70	3.94
<i>Animal Bites</i>	6.69	0.05
<i>Campylobacteriosis</i>	11.62	0.50
<i>Creutzfeldt-Jakob Disease (CJD)</i>	0.70	3.94
<i>Cryptosporidiosis</i>	5.28	0.73
<i>Cyclosporiasis</i>	0.70	1.79
<i>Dengue Fever</i>	0.35	1.64
<i>E Coli Shiga Toxin Positive</i>	0.35	0.10
<i>E. Coli O157 H7</i>	1.41	0.60
<i>Ehrlichia chaffeensis</i>	1.76	0.43
<i>Giardiasis</i>	3.87	0.67
<i>Haemophilus Influenzae, Invasive</i>	3.17	1.32
<i>Hepatitis A Acute</i>	0.35	1.31
<i>Hepatitis B (Pregnancy) Prenatal</i>	0.35	0.20
<i>Hepatitis B Acute</i>	0.70	1.07
<i>Hepatitis B Chronic Infection</i>	4.58	0.64
<i>Hepatitis C, Chronic Infection</i>	48.26	0.57
<i>Influenza</i>	1.06	0.08
<i>Legionellosis</i>	4.23	1.56
<i>Meningococcal Disease</i>	0.35	4.93
<i>Pertussis</i>	1.76	0.32
<i>Rabies Animal</i>	0.35	0.76
<i>Rabies Post Exposure Prophylaxis</i>	7.40	0.80
<i>Rocky Mountain Spotted Fever</i>	1.41	0.22
<i>Salmonellosis</i>	16.20	0.92
<i>Shiga Toxin + (Non E. Coli/Unknown Organism)</i>	0.70	3.58
<i>Shigellosis</i>	3.17	0.22
<i>Staph Aureus VISA</i>	1.06	2.46
<i>Strep Disease, Group A Invasive</i>	1.41	0.65
<i>Strep Pneumoniae, Drug-Resistant</i>	7.05	1.52
<i>Tb Infection</i>	26.42	0.53
<i>Tuberculosis</i>	0.70	0.41
<i>Tularemia</i>	0.35	0.46
<i>Vibriosis</i>	0.35	3.28

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

St Charles County

<i>Disease or Condition</i>	<i>Analysis Results ¹</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		1.0	1.6	0.8	1.7	0.5	1.7
Cryptosporidiosis		0.0	1.1	0.0	1.2	0.0	1.3
E Coli Shiga Toxin Positive		0.0	0.6	0.0	0.5	0.0	0.4
E. Coli O157 H7		0.8	0.7	0.8	0.7	0.8	0.8
Giardiasis		0.0	1.4	0.0	1.4	0.0	1.5
Haemophilus Influenzae, Invasive		0.0	0.3	0.0	0.3	0.0	0.3
Hepatitis B (Pregnancy) Prenatal		0.0	0.5	0.0	0.5	0.0	0.5
Hepatitis B Chronic Infection		0.0	0.5	0.3	0.5	0.3	0.6
Hepatitis C, Chronic Infection		1.0	5.6	1.0	5.4	1.3	5.2
Pertussis		0.3	5.7	0.3	5.5	0.3	5.4
Salmonellosis		0.3	1.8	0.5	1.8	0.5	1.9
Strep Disease, Group A Invasive		0.0	0.7	0.3	0.7	0.3	0.6

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.

St Charles County

