

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report

for the

St Louis City

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

St Louis City

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 Louis City

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	256	256	253	No Data	279	No Data	0.0%	(8.2%)	73.52	0.58	1	49
Campylobacteriosis	20	20	20	17	21	24	0.0%	(4.8%)	5.74	0.25	1	40
Coccidioidomycosis	4	4	4	1	2	2	0.0%	166.7%	1.15	3.38	15	36
Creutzfeldt-Jakob Disease (CJD)	1	1	1	1	1	1	0.0%	0.0%	0.29	1.61	18	18
Cryptosporidiosis	8	8	8	4	5	6	0.0%	60.0%	2.30	0.32	9	46
E Coli Shiga Toxin Positive	6	6	6	3	4	5	0.0%	50.0%	1.72	0.51	18	46
E. Coli O157 H7	3	3	3	3	3	4	0.0%	0.0%	0.86	0.37	24	26
Giardiasis	34	34	34	14	17	22	0.0%	100.0%	9.76	1.69	1	48
Haemophilus Influenzae, Invasive	9	9	9	5	5	7	0.0%	80.0%	2.58	1.08	1	45
Hepatitis A Acute	3	3	3	1	1	2	0.0%	200.0%	0.86	3.21	10	46
Hepatitis B (Pregnancy) Prenatal	8	8	8	15	17	19	0.0%	(52.9%)	2.30	1.31	2	42
Hepatitis B Acute	7	7	7	1	1	2	0.0%	600.0%	2.01	3.04	9	39
Hepatitis B Chronic Infection	68	67	67	52	54	55	1.5%	25.9%	19.53	2.72	2	50
Hepatitis C, Chronic Infection	672	668	663	755	797	848	0.6%	(15.7%)	193.00	2.28	1	50
Influenza	16	16	12	No Data	294	No Data	0.0%	(94.6%)	4.60	0.34	40	49
Legionellosis	16	16	16	5	6	6	0.0%	166.7%	4.60	1.69	7	40
Listeriosis	1	1	1	1	1	1	0.0%	0.0%	0.29	5.36	1	1
Lyme	1	1	1	No Data	0	No Data	0.0%	0.0%	0.29	1.15	32	32
Malaria	3	3	3	1	2	3	0.0%	100.0%	0.86	2.84	39	45
Pertussis	7	7	6	15	16	25	0.0%	(56.3%)	2.01	0.36	18	49
Rabies Animal	1	1	1	1	1	1	0.0%	0.0%	0.29	0.62	35	35
Rabies Post Exposure Prophylaxis	1	1	1	No Data	4	No Data	0.0%	(72.7%)	0.29	0.03	21	21
Rocky Mountain Spotted Fever	4	4	4	2	2	2	0.0%	100.0%	1.15	0.18	15	35
Salmonellosis	47	45	44	37	38	39	4.4%	23.7%	13.50	0.76	2	50
Shiga Toxin + (Non E. Coli/Unknown Organism)	1	1	1	2	2	2	0.0%	(50.0%)	0.29	1.46	38	38
Shigellosis	15	15	14	1	2	58	0.0%	650.0%	4.31	0.30	3	49
Staph Aureus VISA	8	8	8	14	32	50	0.0%	(75.0%)	2.30	5.36	1	43
Strep Disease, Group A Invasive	11	11	11	6	9	12	0.0%	22.2%	3.16	1.46	1	44

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 Louis City

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
Strep Pneumoniae, <5 Years, Invasive	1	1	1	2	3	4	0.0%	(66.7%)	0.29	2.68	9	9
Strep Pneumoniae, Drug-Resistant	11	10	10	6	7	7	10.0%	57.1%	3.16	0.68	1	50
Tb Infection	347	342	336	535	565	582	1.5%	(38.6%)	99.66	2.01	1	50
Tuberculosis	10	10	10	12	16	22	0.0%	(35.5%)	2.87	1.69	4	43
Varicella (Chickenpox)	3	3	3	No Data	4	No Data	0.0%	(16.7%)	0.86	0.33	29	32
Yersiniosis	2	2	2	2	3	4	0.0%	(20.0%)	0.57	1.24	2	2

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 Louis City

Disease or Condition	Data Status ^{1,2}	^{1st} Week Reported Current Report	^{1st} 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
Animal Bites	Old	1	1	4	Below Median	Below Median	Increase	Below Normal
Campylobacteriosis	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Coccidioidomycosis	Old	15	15	0	Above Maximum	Above Maximum	Flat	Very Elevated
Creutzfeldt-Jakob Disease (CJD)	Old	18	18	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	9	9	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
E Coli Shiga Toxin Positive	Old	18	18	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
E. Coli O157 H7	Old	24	24	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Haemophilus Influenzae, Invasive	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis A Acute	Old	10	10	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis B (Pregnancy) Prenatal	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Acute	Old	9	9	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis B Chronic Infection	Old	2	2	1	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Hepatitis C, Chronic Infection	Old	1	1	16	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	4	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	7	7	0	Above Maximum	Above Maximum	Flat	Very Elevated
Listeriosis	Old	1	1	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 Louis City

Disease or Condition	Data Status ^{1,2}	^{1st} Week Reported Current Report	^{1st} 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
Lyme	Old	32	32	0	Above Median	Above Median	Flat	Above Normal
Malaria	Old	39	39	0	Above Median	Above Median	Flat	Above Normal
Pertussis	Old	18	18	0	Below Median	Below Median	Flat	Below Normal
Rabies Animal	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	21	21	0	Below Median	Below Median	Flat	Below Normal
Rocky Mountain Spotted Fever	Old	15	15	0	Above Maximum	Above Maximum	Flat	Very Elevated
Salmonellosis	Old	2	2	2	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Shiga Toxin + (Non E. Coli/Unknown Organism)	Old	38	38	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Staph Aureus VISA	Old	1	1	-1	Below Median	Below Median	Decrease	Below Normal
Strep Disease, Group A Invasive	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Strep Pneumoniae, <5 Years, Invasive	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Tb Infection	Old	1	1	6	Below Median	Below Median	Increase	Below Normal
Tuberculosis	Old	4	4	1	Below Median	Below Median	Increase	Below Normal
Varicella (Chickenpox)	Old	29	29	0	Below Median	Below Median	Flat	Below Normal
Yersiniosis	Old	2	2	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>	73.52	0.58
<i>Campylobacteriosis</i>	5.74	0.25
<i>Coccidioidomycosis</i>	1.15	3.38
<i>Creutzfeldt-Jakob Disease (CJD)</i>	0.29	1.61
<i>Cryptosporidiosis</i>	2.30	0.32
<i>E Coli Shiga Toxin Positive</i>	1.72	0.51
<i>E. Coli O157 H7</i>	0.86	0.37
<i>Giardiasis</i>	9.76	1.69
<i>Haemophilus Influenzae, Invasive</i>	2.58	1.08
<i>Hepatitis A Acute</i>	0.86	3.21
<i>Hepatitis B (Pregnancy) Prenatal</i>	2.30	1.31
<i>Hepatitis B Acute</i>	2.01	3.04
<i>Hepatitis B Chronic Infection</i>	19.53	2.72
<i>Hepatitis C, Chronic Infection</i>	193.00	2.28
<i>Influenza</i>	4.60	0.34
<i>Legionellosis</i>	4.60	1.69
<i>Listeriosis</i>	0.29	5.36
<i>Lyme</i>	0.29	1.15
<i>Malaria</i>	0.86	2.84
<i>Pertussis</i>	2.01	0.36
<i>Rabies Animal</i>	0.29	0.62
<i>Rabies Post Exposure Prophylaxis</i>	0.29	0.03
<i>Rocky Mountain Spotted Fever</i>	1.15	0.18
<i>Salmonellosis</i>	13.50	0.76
<i>Shiga Toxin + (Non E. Coli/Unknown Organism)</i>	0.29	1.46
<i>Shigellosis</i>	4.31	0.30
<i>Staph Aureus VISA</i>	2.30	5.36
<i>Strep Disease, Group A Invasive</i>	3.16	1.46
<i>Strep Pneumoniae, <5 Years, Invasive</i>	0.29	2.68
<i>Strep Pneumoniae, Drug-Resistant</i>	3.16	0.68
<i>Tb Infection</i>	99.66	2.01
<i>Tuberculosis</i>	2.87	1.69
<i>Varicella (Chickenpox)</i>	0.86	0.33
<i>Yersiniosis</i>	0.57	1.24

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 Louis City

<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		0.0	1.2	0.0	1.3	0.0	1.3
Coccidioidomycosis		0.0	0.1	0.0	0.1	0.0	0.1
Giardiasis		2.0	2.8	2.3	3.1	2.3	3.3
Haemophilus Influenzae, Invasive		0.0	0.4	0.0	0.3	0.3	0.3
Hepatitis A Acute		0.0	0.2	0.3	0.2	0.3	0.2
Hepatitis B (Pregnancy) Prenatal		0.0	0.8	0.0	0.8	0.0	0.8
Hepatitis B Chronic Infection		0.5	1.9	0.3	1.8	1.0	1.7
Hepatitis C, Chronic Infection		4.3	20.6	6.3	21.0	8.0	22.1
Legionellosis		0.0	0.5	0.0	0.6	0.0	0.7
Malaria		0.0	0.1	0.0	0.2	0.3	0.2
Pertussis		0.3	2.4	0.5	2.4	0.5	2.4
Salmonellosis		1.0	1.6	0.5	1.7	0.5	1.8
Staph Aureus VISA		0.0	0.1	0.0	0.1	0.0	0.1
Strep Disease, Group A Invasive		0.0	0.7	0.0	0.6	0.0	0.5
Strep Pneumoniae, <5 Years, Invasive		0.0	0.5	0.0	0.6	0.0	0.6
Strep Pneumoniae, Drug-Resistant		0.5	0.6	0.5	0.6	0.8	0.6
Tuberculosis		0.0	0.7	0.0	0.7	0.0	0.7
Yersiniosis		0.0	0.3	0.0	0.2	0.0	0.1

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 Louis City