

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

St Louis County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

St Louis 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 Louis 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
Anaplasma phagocytophilum	2	2	2	1	2	3
Animal Bites	1,447	1,419	1,394	No Data	1,159	No Data
Campylobacteriosis	95	93	93	95	99	105
Coccidioidomycosis	4	4	4	2	2	2
Creutzfeldt-Jakob Disease (CJD)	2	2	2	2	2	3
Cryptosporidiosis	34	34	34	19	21	24
Cyclosporiasis	4	4	4	1	1	1
Dengue Fever	5	5	5	2	2	2
E Coli Shiga Toxin Positive	34	33	29	17	18	22
E. Coli O157 H7	7	7	6	6	11	15
Ehrlichia chaffeensis	14	14	14	15	16	17
Ehrlichia ewingii	3	3	3	1	3	4
Ehrlichiosis or Anaplasmosis, Undetermined	1	1	1	No Data	1	No Data
Giardiasis	49	46	44	35	40	43
Haemophilus Influenzae, Invasive	28	27	27	11	18	19
Hepatitis A Acute	1	1	1	1	2	3
Hepatitis B (Pregnancy) Prenatal	21	21	21	30	32	33
Hepatitis B Acute	3	3	3	3	4	6
Hepatitis B Chronic Infection	65	64	63	68	87	90
Hepatitis C Acute	4	4	4	No Data	0	No Data
Hepatitis C, Chronic Infection	586	584	573	547	562	737
Hepatitis D Acute	1	1	1	No Data	0	No Data
Influenza	60	49	36	No Data	507	No Data
Legionellosis	31	31	31	14	16	19
Malaria	3	3	3	4	6	6
Mumps	5	3	2	1	3	5
Pertussis	93	91	84	160	167	204
Rabies Animal	1	1	1	5	6	6
Rabies Post Exposure Prophylaxis	58	58	57	No Data	79	No Data
Rocky Mountain Spotted Fever	5	5	5	13	16	16
Salmonellosis	158	150	149	145	150	159
Shiga Toxin + (Non E. Coli/Unknown Organism)	2	2	2	1	3	4
Shigellosis	120	120	118	11	25	187
Staph Aureus VISA	7	7	7	12	21	37
Strep Disease, Group A Invasive	25	25	25	22	26	32

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 County

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
0.0%	33.3%	0.20	1.10	28	32
2.0%	24.8%	142.38	1.13	1	51
2.2%	(4.0%)	9.35	0.40	2	50
0.0%	100.0%	0.39	1.16	16	44
0.0%	0.0%	0.20	1.10	4	26
0.0%	61.9%	3.35	0.46	4	47
0.0%	300.0%	0.39	1.00	8	30
0.0%	150.0%	0.49	2.29	11	37
3.0%	88.9%	3.35	0.99	1	50
0.0%	(36.4%)	0.69	0.29	12	49
0.0%	(12.5%)	1.38	0.34	20	42
0.0%	0.0%	0.30	1.84	20	34
0.0%	(25.0%)	0.10	0.61	30	30
6.5%	22.5%	4.82	0.84	2	50
3.7%	55.6%	2.76	1.15	1	50
0.0%	(50.0%)	0.10	0.37	33	33
0.0%	(34.4%)	2.07	1.18	3	47
0.0%	(25.0%)	0.30	0.45	8	35
1.6%	(25.3%)	6.40	0.89	3	50
0.0%	0.0%	0.39	0.92	27	46
0.3%	4.3%	57.66	0.68	1	50
0.0%	0.0%	0.10	5.51	17	17
22.4%	(88.2%)	5.90	0.43	40	50
0.0%	93.8%	3.05	1.12	2	44
0.0%	(50.0%)	0.30	0.97	20	29
66.7%	66.7%	0.49	0.16	9	50
2.2%	(44.3%)	9.15	1.65	2	50
0.0%	(83.3%)	0.10	0.21	5	5
0.0%	(26.2%)	5.71	0.62	2	49
0.0%	(68.8%)	0.49	0.08	20	42
5.3%	5.3%	15.55	0.88	1	50
0.0%	(20.0%)	0.20	1.00	3	30
0.0%	380.0%	11.81	0.83	2	49
0.0%	(66.7%)	0.69	1.61	12	48
0.0%	(3.8%)	2.46	1.14	1	18

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 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
Strep Pneumoniae, Drug-Resistant	32	30	30	11	12	14
Tb Infection	523	515	497	439	508	528
Toxic Shock (Strep) Syndrome	2	2	2	No Data	0	No Data
Tuberculosis	20	19	19	15	20	23
Typhoid Fever	3	3	3	2	3	3
Varicella (Chickenpox)	2	2	2	No Data	6	No Data
Vibriosis	1	1	1	1	1	2
West Nile Fever	1	1	1	1	1	2
West Nile Viral Encephalitis/Meningitis	4	4	4	1	2	5
Yersiniosis	9	9	8	1	3	3

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 County

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
6.7%	166.7%	3.15	0.68	1	50
1.6%	3.0%	51.46	1.04	1	50
0.0%	0.0%	0.20	1.84	15	22
5.3%	0.0%	1.97	1.16	4	50
0.0%	20.0%	0.30	4.13	10	37
0.0%	(66.7%)	0.20	0.07	2	46
0.0%	0.0%	0.10	0.92	10	10
0.0%	0.0%	0.10	2.75	39	39
0.0%	100.0%	0.39	2.75	35	40
0.0%	200.0%	0.89	1.91	1	49

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 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	28	28	0	Above Median	Above Median	Flat	Above Normal
Animal Bites	Old	1	1	28	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	2	2	2	Below Median	Below Median	Increase	Below Normal
Coccidioidomycosis	Old	16	16	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Creutzfeldt-Jakob Disease (CJD)	Old	4	4	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	4	4	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Cyclosporiasis	Old	8	8	0	Above Maximum	Above Maximum	Flat	Very Elevated
Dengue Fever	Old	11	11	0	Above Maximum	Above Maximum	Flat	Very Elevated
E Coli Shiga Toxin Positive	Old	1	1	4	Above Maximum	Above Maximum	Increase	Very Elevated
E. Coli O157 H7	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia ewingii	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	30	30	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	2	2	3	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Haemophilus Influenzae, Invasive	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Hepatitis A Acute	Old	33	33	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	3	3	-1	Below Median	Below Median	Decrease	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 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
Hepatitis B Acute	Old	8	8	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	3	3	1	Below Median	Below Median	Increase	Below Normal
Hepatitis C Acute	Old	27	27	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C, Chronic Infection	Old	1	1	20	Above Median	Above Median	Increase	Above Normal
Hepatitis D Acute	Old	17	17	0	Above Median	Above Median	Flat	Above Normal
Influenza	Old	40	40	11	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	2	2	0	Above Maximum	Above Maximum	Flat	Very Elevated
Malaria	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Mumps	Old	9	9	2	Above Median	Below Median	Increase	Above Normal
Pertussis	Old	2	2	11	Below Median	Below Median	Increase	Below Normal
Rabies Animal	Old	5	5	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Rocky Mountain Spotted Fever	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	8	Above Median	Above Median	Increase	Above Normal
Shiga Toxin + (Non E. Coli/Unknown Organism)	Old	3	3	-1	Below Median	Above Median	Decrease	Below Normal
Shigellosis	Old	2	2	1	Above Median	Above Median	Increase	Above Normal
Staph Aureus VISA	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Strep Disease, Group A Invasive	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

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³ Week 50 Quartile Results are from the Current Report

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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 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
Strep Pneumoniae, Drug-Resistant	Old	1	1	3	Above Maximum	Above Maximum	Increase	Very Elevated
Tb Infection	Old	1	1	21	Above 3 rd Quartile	Below Median	Increase	Elevated
Toxic Shock (Strep) Syndrome	Old	15	15	0	Above Median	Above Median	Flat	Above Normal
Tuberculosis	Old	4	4	1	Below Median	Below Median	Increase	Below Normal
Typhoid Fever	Old	10	10	0	Above Median	Above Median	Flat	Above Normal
Varicella (Chickenpox)	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Vibriosis	Old	10	10	0	Below Median	Below Median	Flat	Below Normal
West Nile Fever	Old	39	39	0	Below Median	Below Median	Flat	Below Normal
West Nile Viral Encephalitis/Meningitis	Old	35	35	0	Above Median	Above Median	Flat	Above Normal
Yersiniosis	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated

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>	0.20	1.10
<i>Animal Bites</i>	142.38	1.13
<i>Campylobacteriosis</i>	9.35	0.40
<i>Coccidioidomycosis</i>	0.39	1.16
<i>Creutzfeldt-Jakob Disease (CJD)</i>	0.20	1.10
<i>Cryptosporidiosis</i>	3.35	0.46
<i>Cyclosporiasis</i>	0.39	1.00
<i>Dengue Fever</i>	0.49	2.29
<i>E Coli Shiga Toxin Positive</i>	3.35	0.99
<i>E. Coli O157 H7</i>	0.69	0.29
<i>Ehrlichia chaffeensis</i>	1.38	0.34
<i>Ehrlichia ewingii</i>	0.30	1.84
<i>Ehrlichiosis or Anaplasmosis, Undetermined</i>	0.10	0.61
<i>Giardiasis</i>	4.82	0.84
<i>Haemophilus Influenzae, Invasive</i>	2.76	1.15
<i>Hepatitis A Acute</i>	0.10	0.37
<i>Hepatitis B (Pregnancy) Prenatal</i>	2.07	1.18
<i>Hepatitis B Acute</i>	0.30	0.45
<i>Hepatitis B Chronic Infection</i>	6.40	0.89
<i>Hepatitis C Acute</i>	0.39	0.92
<i>Hepatitis C, Chronic Infection</i>	57.66	0.68
<i>Hepatitis D Acute</i>	0.10	5.51
<i>Influenza</i>	5.90	0.43
<i>Legionellosis</i>	3.05	1.12
<i>Malaria</i>	0.30	0.97
<i>Mumps</i>	0.49	0.16
<i>Pertussis</i>	9.15	1.65
<i>Rabies Animal</i>	0.10	0.21
<i>Rabies Post Exposure Prophylaxis</i>	5.71	0.62
<i>Rocky Mountain Spotted Fever</i>	0.49	0.08
<i>Salmonellosis</i>	15.55	0.88
<i>Shiga Toxin + (Non E. Coli/Unknown Organism)</i>	0.20	1.00
<i>Shigellosis</i>	11.81	0.83
<i>Staph Aureus VISA</i>	0.69	1.61
<i>Strep Disease, Group A Invasive</i>	2.46	1.14
<i>Strep Pneumoniae, Drug-Resistant</i>	3.15	0.68

(Continued)

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 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}
Tb Infection	51.46	1.04
Toxic Shock (Strep) Syndrome	0.20	1.84
Tuberculosis	1.97	1.16
Typhoid Fever	0.30	4.13
Varicella (Chickenpox)	0.20	0.07
Vibriosis	0.10	0.92
West Nile Fever	0.10	2.75
West Nile Viral Encephalitis/Meningitis	0.39	2.75
Yersiniosis	0.89	1.91

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 County

Disease or Condition	Analysis Results ¹	4-week Count Mean for Week 50²	Upper Limit for Week 50³	4-week Count Mean for Week 49²	Upper Limit for Week 49³	4-week Count Mean for Week 48²	Upper Limit for Week 48³
Campylobacteriosis		1.5	3.2	1.5	3.2	1.8	3.2
Coccidioidomycosis		0.0	0.0	0.0	0.1	0.0	0.1
Cryptosporidiosis		0.3	1.4	0.5	1.6	0.5	1.8
E Coli Shiga Toxin Positive		1.3	1.1	1.3	1.1	0.3	1.1
E. Coli O157 H7		0.3	4.2	0.3	4.2	0.0	4.2
Ehrlichia chaffeensis		0.0	0.5	0.0	0.6	0.0	0.7
Giardiasis		2.0	1.9	1.8	1.9	1.3	2.0
Haemophilus Influenzae, Invasive		0.5	1.3	0.3	1.1	0.3	1.1
Hepatitis A Acute		0.0	0.3	0.0	0.2	0.0	0.2
Hepatitis B (Pregnancy) Prenatal		0.3	1.2	0.5	1.2	0.8	1.3
Hepatitis B Acute		0.0	0.5	0.0	0.5	0.0	0.5
Hepatitis B Chronic Infection		0.8	2.7	1.0	2.7	1.0	2.7
Hepatitis C, Chronic Infection		4.5	18.0	6.3	18.0	5.5	18.1
Legionellosis		0.0	0.6	0.0	0.6	0.0	0.7
Malaria		0.0	0.2	0.0	0.3	0.0	0.4
Pertussis		5.5	21.5	7.0	21.4	6.8	21.3
Rabies Animal		0.0	0.3	0.0	0.3	0.0	0.4
Rocky Mountain Spotted Fever		0.0	0.3	0.0	0.4	0.0	0.5
Salmonellosis		3.5	3.8	2.0	3.8	2.3	3.9
Shigellosis		2.3	18.9	3.8	19.0	3.5	18.5
Staph Aureus VISA		0.3	0.1	0.3	0.1	0.3	0.1
Strep Disease, Group A Invasive		0.0	1.2	0.0	1.2	0.0	1.1
Strep Pneumoniae, Drug-Resistant		2.0	1.1	1.5	1.0	1.5	1.0
Tuberculosis		0.3	0.9	0.0	1.0	0.3	1.0
Typhoid Fever		0.0	0.2	0.0	0.2	0.0	0.2
Vibriosis		0.0	0.0	0.0	0.1	0.0	0.1
West Nile Fever		0.0	0.1	0.0	0.2	0.0	0.2
West Nile Viral Encephalitis/Meningitis		0.0	0.3	0.0	0.4	0.0	0.5
Yersiniosis		0.3	0.5	0.3	0.4	0.0	0.4

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 County

