

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Troop I Total

Missouri Department of Health and Senior Services (DHSS)

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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

Troop I Total

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	1	1	1	1	1	1	0.0%	0.0%	0.62	3.49	24	24
Animal Bites	196	193	190	No Data	189	No Data	1.6%	3.7%	122.40	0.97	1	50
Campylobacteriosis	34	34	33	16	20	28	0.0%	70.0%	21.23	0.92	1	49
Cryptosporidiosis	6	6	6	4	4	10	0.0%	50.0%	3.75	0.52	15	36
E Coli Shiga Toxin Positive	6	6	6	5	6	7	0.0%	9.1%	3.75	1.11	2	38
E. Coli O157 H7	4	4	4	3	3	4	0.0%	33.3%	2.50	1.06	7	28
Ehrlichia chaffeensis	14	14	14	11	16	27	0.0%	(12.5%)	8.74	2.15	19	36
Ehrlichia ewingii	1	1	1	1	1	1	0.0%	0.0%	0.62	3.88	35	35
Ehrlichiosis or Anaplasmosis, Undetermined	2	2	2	No Data	2	No Data	0.0%	33.3%	1.25	7.76	20	41
Giardiasis	12	12	12	6	9	9	0.0%	33.3%	7.49	1.30	4	40
Haemophilus Influenzae, Invasive	4	4	4	3	5	5	0.0%	(20.0%)	2.50	1.04	2	21
Hemolytic Uremic Syndrome	1	1	1	1	1	1	0.0%	0.0%	0.62	1.94	18	18
Hepatitis B (Pregnancy) Prenatal	3	3	3	2	2	3	0.0%	50.0%	1.87	1.07	3	45
Hepatitis B Acute	2	2	2	1	2	3	0.0%	0.0%	1.25	1.89	5	29
Hepatitis B Chronic Infection	7	7	7	8	11	12	0.0%	(36.4%)	4.37	0.61	2	44
Hepatitis C, Chronic Infection	142	142	141	137	174	200	0.0%	(18.4%)	88.67	1.05	1	49
Influenza	38	33	29	No Data	36	No Data	15.2%	5.0%	23.73	1.75	40	50
Legionellosis	4	4	4	1	1	2	0.0%	300.0%	2.50	0.92	15	48
Leptospirosis	1	1	1	No Data	0	No Data	0.0%	0.0%	0.62	34.94	10	10
Mumps	2	1	0	No Data	0	No Data	100.0%	0.0%	1.25	0.42	49	50
Pertussis	1	1	1	4	4	9	0.0%	(75.0%)	0.62	0.11	28	28
Rabies Animal	2	2	2	1	1	2	0.0%	100.0%	1.25	2.69	19	35
Rabies Post Exposure Prophylaxis	21	21	21	No Data	14	No Data	0.0%	45.8%	13.11	1.42	6	39
Rocky Mountain Spotted Fever	4	4	4	17	18	21	0.0%	(77.8%)	2.50	0.39	31	43
Salmonellosis	24	24	23	24	26	28	0.0%	(7.7%)	14.99	0.85	1	49
Shigellosis	5	5	5	2	2	7	0.0%	150.0%	3.12	0.22	3	31
Staph Aureus VISA	1	1	1	3	3	5	0.0%	(66.7%)	0.62	1.46	20	20

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

Troop I Total

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 Disease, Group A Invasive	1	0	0	4	6	7	0.0%	(83.3%)	0.62	0.29	50	50
Strep Pneumoniae, Drug-Resistant	5	5	5	3	5	6	0.0%	11.1%	3.12	0.67	3	39
Tb Infection	43	43	43	60	68	84	0.0%	(36.8%)	26.85	0.54	3	48
Varicella (Chickenpox)	3	3	3	No Data	9	No Data	0.0%	(65.9%)	1.87	0.71	8	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 for Week 50, 2016
Disease or Condition Analysis
Relative to Last Report run on 12/13/2016 for Week 49, 2016

Troop I Total

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
Anaplasma phagocytophilum	Old	24	24	0	Below Median	Below Median	Flat	Below Normal
Animal Bites	Old	1	1	4	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Cryptosporidiosis	Old	15	15	0	Above Median	Above Median	Flat	Above Normal
E Coli Shiga Toxin Positive	Old	2	2	0	Above Median	Above Median	Flat	Above Normal
E. Coli O157 H7	Old	7	7	0	Above Median	Above Median	Flat	Above Normal
Ehrlichia chaffeensis	Old	19	19	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia ewingii	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	20	20	0	Above Median	Above Median	Flat	Above Normal
Giardiasis	Old	4	4	0	Above Maximum	Above Maximum	Flat	Very Elevated
Haemophilus Influenzae, Invasive	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Hemolytic Uremic Syndrome	Old	18	18	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Hepatitis B Acute	Old	5	5	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	1	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	7	Above Median	Above Median	Increase	Above Normal
Legionellosis	Old	15	15	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 for Week 50, 2016
 Disease or Condition Analysis
 Relative to Last Report run on 12/13/2016 for Week 49, 2016

Troop I Total

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
Leptospirosis	Old	10	10	0	Above Median	Above Median	Flat	Above Normal
Mumps	Old	49		2	Above Median	Below Median	Increase	Above Normal
Pertussis	Old	28	28	0	Below Median	Below Median	Flat	Below Normal
Rabies Animal	Old	19	19	0	Above Median	Above Median	Flat	Above Normal
Rabies Post Exposure Prophylaxis	Old	6	6	0	Above Median	Above Median	Flat	Above Normal
Rocky Mountain Spotted Fever	Old	31	31	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Staph Aureus VISA	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Strep Disease, Group A Invasive	New	50		1	Below Median	Below Median	Increase	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Tb Infection	Old	3	3	2	Below Median	Below Median	Increase	Below Normal
Varicella (Chickenpox)	Old	8	8	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>	0.62	3.49
<i>Animal Bites</i>	122.40	0.97
<i>Campylobacteriosis</i>	21.23	0.92
<i>Cryptosporidiosis</i>	3.75	0.52
<i>E Coli Shiga Toxin Positive</i>	3.75	1.11
<i>E. Coli O157 H7</i>	2.50	1.06
<i>Ehrlichia chaffeensis</i>	8.74	2.15
<i>Ehrlichia ewingii</i>	0.62	3.88
<i>Ehrlichiosis or Anaplasmosis, Undetermined</i>	1.25	7.76
<i>Giardiasis</i>	7.49	1.30
<i>Haemophilus Influenzae, Invasive</i>	2.50	1.04
<i>Hemolytic Uremic Syndrome</i>	0.62	1.94
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.87	1.07
<i>Hepatitis B Acute</i>	1.25	1.89
<i>Hepatitis B Chronic Infection</i>	4.37	0.61
<i>Hepatitis C, Chronic Infection</i>	88.67	1.05
<i>Influenza</i>	23.73	1.75
<i>Legionellosis</i>	2.50	0.92
<i>Leptospirosis</i>	0.62	34.94
<i>Mumps</i>	1.25	0.42
<i>Pertussis</i>	0.62	0.11
<i>Rabies Animal</i>	1.25	2.69
<i>Rabies Post Exposure Prophylaxis</i>	13.11	1.42
<i>Rocky Mountain Spotted Fever</i>	2.50	0.39
<i>Salmonellosis</i>	14.99	0.85
<i>Shigellosis</i>	3.12	0.22
<i>Staph Aureus VISA</i>	0.62	1.46
<i>Strep Disease, Group A Invasive</i>	0.62	0.29
<i>Strep Pneumoniae, Drug-Resistant</i>	3.12	0.67
<i>Tb Infection</i>	26.85	0.54
<i>Varicella (Chickenpox)</i>	1.87	0.71

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

Troop I Total

<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		0.3	1.0	0.3	1.0	0.8	1.1
Cryptosporidiosis		0.0	0.4	0.0	0.5	0.0	0.5
Ehrlichia chaffeensis		0.0	0.0	0.0	0.1	0.0	0.1
Giardiasis		0.0	0.9	0.0	1.0	0.0	1.0
Hepatitis B Acute		0.0	0.2	0.0	0.2	0.0	0.2
Hepatitis C, Chronic Infection		0.8	4.4	1.0	4.5	1.8	4.6
Rabies Animal		0.0	0.2	0.0	0.2	0.0	0.3
Rocky Mountain Spotted Fever		0.0	0.9	0.0	1.0	0.0	1.1
Salmonellosis		0.3	0.8	0.3	0.9	0.0	1.1
Strep Disease, Group A Invasive		0.3	0.1	0.0	.	0.0	.

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)

Troop I Total

