

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Troop A Total

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Troop A Total

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 A 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
Anaplasma phagocytophilum	1	1	1	3	4	5
Animal Bites	1,398	1,387	1,377	No Data	887	No Data
Campylobacteriosis	295	294	291	75	77	238
Coccidioidomycosis	7	7	7	4	4	5
Creutzfeldt-Jakob Disease (CJD)	1	1	1	1	1	3
Cryptosporidiosis	85	85	85	51	57	160
Cyclosporiasis	5	5	5	2	3	3
Dengue Fever	3	3	3	1	2	3
E Coli Shiga Toxin Positive	28	26	26	19	22	29
E. Coli O157 H7	26	26	26	13	14	17
Ehrlichia chaffeensis	28	28	28	29	31	42
Giardiasis	63	62	62	35	50	63
Haemophilus Influenzae, Invasive	21	21	21	14	15	23
Hansen's Disease (Leprosy)	1	1	1	1	1	1
Hemolytic Uremic Syndrome	5	5	5	1	1	1
Hepatitis A Acute	3	3	3	4	7	8
Hepatitis B (Pregnancy) Prenatal	29	27	27	41	43	43
Hepatitis B Acute	3	3	3	5	6	8
Hepatitis B Chronic Infection	96	96	93	58	87	106
Hepatitis C Acute	5	5	4	2	2	3
Hepatitis C, Chronic Infection	831	829	817	771	833	915
Influenza	196	167	145	No Data	771	No Data
Legionellosis	40	40	39	17	23	24
Lyme	2	2	2	1	1	1
Malaria	9	8	8	2	4	5
Mumps	1	1	1	2	3	3
Pertussis	84	79	77	55	79	118
Rabies Animal	5	5	5	2	2	3
Rabies Post Exposure Prophylaxis	107	106	105	No Data	57	No Data
Rocky Mountain Spotted Fever	39	39	39	35	38	41
Salmonellosis	198	197	196	162	188	194
Shiga Toxin + (Non E. Coli/Unknown Organism)	2	2	2	2	2	2
Shigellosis	267	266	264	19	26	48
Strep Disease, Group A Invasive	34	34	34	28	34	56
Strep Pneumoniae, <5 Years, Invasive	2	2	2	6	8	11

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 A Total

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%	(75.0%)	0.08	0.46	38	38
0.8%	57.7%	113.79	0.90	1	51
0.3%	283.1%	24.01	1.04	1	50
0.0%	75.0%	0.57	1.68	4	40
0.0%	0.0%	0.08	0.46	41	41
0.0%	49.1%	6.92	0.96	1	48
0.0%	100.0%	0.41	1.04	26	32
0.0%	50.0%	0.24	1.14	23	37
7.7%	27.3%	2.28	0.67	8	50
0.0%	85.7%	2.12	0.90	1	44
0.0%	(9.7%)	2.28	0.56	19	40
1.6%	26.0%	5.13	0.89	3	50
0.0%	40.0%	1.71	0.71	3	45
0.0%	0.0%	0.08	4.55	10	10
0.0%	400.0%	0.41	1.27	6	40
0.0%	(53.8%)	0.24	0.91	6	35
7.4%	(32.6%)	2.36	1.35	3	50
0.0%	(50.0%)	0.24	0.37	16	46
0.0%	10.3%	7.81	1.09	1	49
0.0%	150.0%	0.41	0.95	4	49
0.2%	(0.2%)	67.64	0.80	1	50
17.4%	(74.6%)	15.95	1.17	40	50
0.0%	73.9%	3.26	1.20	1	49
0.0%	100.0%	0.16	0.65	30	30
12.5%	125.0%	0.73	2.41	8	50
0.0%	(66.7%)	0.08	0.03	15	15
6.3%	6.3%	6.84	1.23	2	50
0.0%	150.0%	0.41	0.88	20	42
0.9%	88.4%	8.71	0.95	1	50
0.0%	2.6%	3.17	0.50	10	41
0.5%	5.3%	16.12	0.91	1	50
0.0%	0.0%	0.16	0.83	23	44
0.4%	926.9%	21.73	1.53	1	50
0.0%	0.0%	2.77	1.28	1	48
0.0%	(75.0%)	0.16	1.52	12	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

Troop A 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
Strep Pneumoniae, Drug-Resistant	68	67	62	25	27	31
Tb Infection	798	794	787	527	701	897
Tuberculosis	24	24	24	22	29	31
Tularemia	5	5	5	3	4	5
Typhoid Fever	1	1	1	1	1	1
Varicella (Chickenpox)	30	30	30	No Data	67	No Data
Vibriosis	1	1	1	1	2	2
West Nile Viral Encephalitis/Meningitis	3	3	3	3	5	6
Yersiniosis	5	5	5	2	2	4

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 A Total

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
1.5%	151.9%	5.53	1.20	1	50
0.5%	13.8%	64.95	1.31	1	50
0.0%	(15.8%)	1.95	1.15	2	47
0.0%	25.0%	0.41	0.53	9	45
0.0%	0.0%	0.08	1.14	37	37
0.0%	(55.1%)	2.44	0.92	1	48
0.0%	(33.3%)	0.08	0.76	23	23
0.0%	(33.3%)	0.24	1.71	37	39
0.0%	150.0%	0.41	0.88	8	48

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 A Total

<i>Disease or Condition</i>	<i>Data Status</i> ^{1,2}	<i>1st Week Reported Current Report</i>	<i>1st Week Reported Last Report</i>	<i>Change in Count</i>	<i>Week 50 Quartile Results</i> ³	<i>Week 49 Quartile Results</i> ⁴	<i>Data Trend Analysis</i> ⁵	<i>Data Elevation Analysis</i> ⁶
Anaplasma phagocytophilum	Old	38	38	0	Below Median	Below Median	Flat	Below Normal
Animal Bites	Old	1	1	15	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	1	1	4	Above Maximum	Above Maximum	Increase	Very Elevated
Coccidioidomycosis	Old	4	4	0	Above Maximum	Above Maximum	Flat	Very Elevated
Creutzfeldt-Jakob Disease (CJD)	Old	41	41	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Cyclosporiasis	Old	26	26	0	Above Maximum	Above Maximum	Flat	Very Elevated
Dengue Fever	Old	23	23	0	Above Median	Above Median	Flat	Above Normal
E Coli Shiga Toxin Positive	Old	8	8	1	Above Median	Above Median	Increase	Above Normal
E. Coli O157 H7	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Ehrlichia chaffeensis	Old	19	19	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	3	3	1	Above Median	Above Median	Increase	Above Normal
Haemophilus Influenzae, Invasive	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Hansen's Disease (Leprosy)	Old	10	10	0	Below Median	Below Median	Flat	Below Normal
Hemolytic Uremic Syndrome	Old	6	6	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis A Acute	Old	6	6	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	3	3	2	Below Median	Below Median	Increase	Below Normal
Hepatitis B Acute	Old	16	16	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

Troop A Total

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
Hepatitis B Chronic Infection	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C Acute	Old	4	4	1	Above Maximum	Above Maximum	Increase	Very Elevated
Hepatitis C, Chronic Infection	Old	1	1	17	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	49	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Lyme	Old	30	30	0	Above Maximum	Above Maximum	Flat	Very Elevated
Malaria	Old	8	8	1	Above Maximum	Above Maximum	Increase	Very Elevated
Mumps	Old	15	15	0	Below Median	Below Median	Flat	Below Normal
Pertussis	Old	2	2	3	Above Median	Above Median	Increase	Above Normal
Rabies Animal	Old	20	20	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Rabies Post Exposure Prophylaxis	Old	1	1	1	Above Median	Above Median	Increase	Above Normal
Rocky Mountain Spotted Fever	Old	10	10	0	Above Median	Above Median	Flat	Above Normal
Salmonellosis	Old	1	1	1	Above 3 rd Quartile	Above Maximum	Increase	Elevated
Shiga Toxin + (Non E. Coli/Unknown Organism)	Old	23	23	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	1	1	1	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Strep Disease, Group A Invasive	Old	1	1	0	Below Median	Above Median	Flat	Below Normal
Strep Pneumoniae, <5 Years, Invasive	Old	12	12	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

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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 A 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
Strep Pneumoniae, Drug-Resistant	Old	1	1	3	Above Maximum	Above Maximum	Increase	Very Elevated
Tb Infection	Old	1	1	11	Above Median	Above Median	Increase	Above Normal
Tuberculosis	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Tularemia	Old	9	9	0	Above Median	Above Median	Flat	Above Normal
Typhoid Fever	Old	37	37	0	Below Median	Below Median	Flat	Below Normal
Varicella (Chickenpox)	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Vibriosis	Old	23	23	0	Below Median	Below Median	Flat	Below Normal
West Nile Viral Encephalitis/Meningitis	Old	37	37	0	Below Median	Below Median	Flat	Below Normal
Yersiniosis	Old	8	8	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	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>	0.08	0.46
<i>Animal Bites</i>	113.79	0.90
<i>Campylobacteriosis</i>	24.01	1.04
<i>Coccidioidomycosis</i>	0.57	1.68
<i>Creutzfeldt-Jakob Disease (CJD)</i>	0.08	0.46
<i>Cryptosporidiosis</i>	6.92	0.96
<i>Cyclosporiasis</i>	0.41	1.04
<i>Dengue Fever</i>	0.24	1.14
<i>E Coli Shiga Toxin Positive</i>	2.28	0.67
<i>E. Coli O157 H7</i>	2.12	0.90
<i>Ehrlichia chaffeensis</i>	2.28	0.56
<i>Giardiasis</i>	5.13	0.89
<i>Haemophilus Influenzae, Invasive</i>	1.71	0.71
<i>Hansen's Disease (Leprosy)</i>	0.08	4.55
<i>Hemolytic Uremic Syndrome</i>	0.41	1.27
<i>Hepatitis A Acute</i>	0.24	0.91
<i>Hepatitis B (Pregnancy) Prenatal</i>	2.36	1.35
<i>Hepatitis B Acute</i>	0.24	0.37
<i>Hepatitis B Chronic Infection</i>	7.81	1.09
<i>Hepatitis C Acute</i>	0.41	0.95
<i>Hepatitis C, Chronic Infection</i>	67.64	0.80
<i>Influenza</i>	15.95	1.17
<i>Legionellosis</i>	3.26	1.20
<i>Lyme</i>	0.16	0.65
<i>Malaria</i>	0.73	2.41
<i>Mumps</i>	0.08	0.03
<i>Pertussis</i>	6.84	1.23
<i>Rabies Animal</i>	0.41	0.88
<i>Rabies Post Exposure Prophylaxis</i>	8.71	0.95
<i>Rocky Mountain Spotted Fever</i>	3.17	0.50
<i>Salmonellosis</i>	16.12	0.91
<i>Shiga Toxin + (Non E. Coli/Unknown Organism)</i>	0.16	0.83
<i>Shigellosis</i>	21.73	1.53
<i>Strep Disease, Group A Invasive</i>	2.77	1.28
<i>Strep Pneumoniae, <5 Years, Invasive</i>	0.16	1.52
<i>Strep Pneumoniae, Drug-Resistant</i>	5.53	1.20

(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}
<i>Tb Infection</i>	64.95	1.31
<i>Tuberculosis</i>	1.95	1.15
<i>Tularemia</i>	0.41	0.53
<i>Typhoid Fever</i>	0.08	1.14
<i>Varicella (Chickenpox)</i>	2.44	0.92
<i>Vibriosis</i>	0.08	0.76
<i>West Nile Viral Encephalitis/Meningitis</i>	0.24	1.71
<i>Yersiniosis</i>	0.41	0.88

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 A Total

Disease or Condition	Analysis Results ¹	4-week Count Mean for Week 50 ²	Upper Limit for Week 50 ³	4-week Count Mean for Week 49 ²	Upper Limit for Week 49 ³	4-week Count Mean for Week 48 ²	Upper Limit for Week 48 ³
Anaplasma phagocytophilum		0.0	0.3	0.0	0.3	0.0	0.3
Campylobacteriosis		1.3	5.3	2.5	5.6	3.3	5.9
Coccidioidomycosis		0.0	0.2	0.0	0.2	0.0	0.2
Creutzfeldt-Jakob Disease (CJD)		0.0	0.2	0.0	0.2	0.0	0.1
Cryptosporidiosis		0.5	2.5	0.5	2.9	1.0	4.0
E Coli Shiga Toxin Positive		0.5	0.7	0.0	0.8	0.0	0.9
E. Coli O157 H7		0.0	0.9	0.0	0.9	0.0	1.0
Ehrlichia chaffeensis		0.0	0.2	0.0	0.3	0.0	0.4
Giardiasis		0.5	3.2	0.5	3.3	0.8	3.4
Haemophilus Influenzae, Invasive		0.0	0.9	0.0	0.8	0.5	0.8
Hepatitis A Acute		0.0	0.3	0.0	0.3	0.0	0.3
Hepatitis B (Pregnancy) Prenatal		0.5	1.5	0.3	1.6	0.3	1.6
Hepatitis B Acute		0.0	0.6	0.3	0.6	0.3	0.6
Hepatitis B Chronic Infection		2.3	3.1	3.5	3.0	3.0	3.1
Hepatitis C, Chronic Infection		5.5	25.4	8.5	25.5	9.0	25.4
Legionellosis		0.3	0.7	0.3	0.7	0.0	0.8
Malaria		0.3	0.3	0.0	0.3	0.0	0.2
Mumps		0.0	0.2	0.0	0.1	0.0	0.2
Pertussis		3.0	4.3	4.5	4.1	5.3	4.1
Rabies Animal		0.0	0.3	0.0	0.3	0.0	0.4
Rocky Mountain Spotted Fever		0.0	0.4	0.0	0.4	0.0	0.5
Salmonellosis		2.8	4.4	4.8	4.5	5.5	4.6
Shiga Toxin + (Non E. Coli/Unknown Organism)		0.0	0.1	0.0	0.1	0.0	0.1
Shigellosis		0.8	10.2	1.5	9.8	1.8	9.3
Strep Disease, Group A Invasive		0.5	1.0	0.5	1.0	0.5	1.0
Strep Pneumoniae, <5 Years, Invasive		0.0	0.6	0.0	0.6	0.0	0.6
Strep Pneumoniae, Drug-Resistant		2.5	1.1	2.5	1.1	2.0	1.0
Tuberculosis		0.3	0.6	0.3	0.6	0.3	0.6
Tularemia		0.0	0.1	0.0	0.1	0.3	0.1
West Nile Viral Encephalitis/Meningitis		0.0	0.1	0.0	0.1	0.0	0.2

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 A Total

