

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Troop D Total

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Troop D 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 D Total

<i>Disease or Condition</i>	<i>Week 50 YTD¹</i>	<i>Week 49 YTD¹</i>	<i>Week 48 YTD¹</i>	<i>Five Year 1st Quartile</i>	<i>Five Year Median</i>	<i>Five Year 3rd Quartile</i>
Anaplasma phagocytophilum	3	3	3	3	6	7
Animal Bites	1,290	1,283	1,264	No Data	1,106	No Data
Brucellosis	1	1	0	No Data	0	No Data
Campylobacteriosis	382	378	375	76	91	182
Coccidioidomycosis	1	1	1	3	3	3
Creutzfeldt-Jakob Disease (CJD)	1	1	1	2	3	4
Cryptosporidiosis	122	122	118	44	50	59
Cyclosporiasis	1	1	1	1	1	1
Dengue Fever	3	3	3	1	1	1
E Coli Shiga Toxin Positive	57	56	52	31	35	37
E. Coli O157 H7	17	17	17	20	21	28
Ehrlichia chaffeensis	54	54	54	35	66	80
Ehrlichia ewingii	3	3	3	2	2	4
Ehrlichiosis or Anaplasmosis, Undetermined	2	2	2	No Data	5	No Data
Giardiasis	43	43	43	37	49	56
Haemophilus Influenzae, Invasive	25	25	25	11	14	16
Hemolytic Uremic Syndrome	6	6	6	5	6	7
Hepatitis A Acute	2	2	2	1	3	6
Hepatitis B (Pregnancy) Prenatal	15	15	15	16	17	18
Hepatitis B Acute	10	10	9	10	18	18
Hepatitis B Chronic Infection	50	50	49	37	49	51
Hepatitis C Acute	3	3	3	1	1	1
Hepatitis C, Chronic Infection	841	841	829	826	868	1,056
Influenza	123	114	82	No Data	210	No Data
Legionellosis	25	25	24	8	9	22
Listeriosis	1	1	1	1	2	4
Lyme	7	7	7	2	2	2
Mumps	7	2	1	1	1	1
Pertussis	31	29	28	39	39	60
Q Fever, Acute	2	2	2	1	1	1
Rabies Animal	1	1	1	1	1	2
Rabies Post Exposure Prophylaxis	94	93	93	No Data	74	No Data
Rocky Mountain Spotted Fever	49	49	49	57	66	69
Salmonellosis	141	137	137	117	130	132
Shigellosis	107	107	107	13	13	26

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 D 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%	(50.0%)	0.40	2.21	35	39
0.5%	16.7%	170.14	1.35	1	51
0.0%	0.0%	0.13	2.46	49	49
1.1%	319.8%	50.38	2.18	1	50
0.0%	(66.7%)	0.13	0.39	12	12
0.0%	(66.7%)	0.13	0.74	40	40
0.0%	144.0%	16.09	2.23	1	49
0.0%	0.0%	0.13	0.34	31	31
0.0%	200.0%	0.40	1.84	6	46
1.8%	62.9%	7.52	2.23	3	50
0.0%	(19.0%)	2.24	0.95	6	43
0.0%	(18.2%)	7.12	1.75	1	39
0.0%	50.0%	0.40	2.46	22	31
0.0%	(60.0%)	0.26	1.64	18	31
0.0%	(12.2%)	5.67	0.98	3	48
0.0%	78.6%	3.30	1.38	1	48
0.0%	0.0%	0.79	2.46	5	36
0.0%	(33.3%)	0.26	0.98	8	17
0.0%	(11.8%)	1.98	1.13	2	45
0.0%	(44.4%)	1.32	1.99	1	49
0.0%	2.0%	6.59	0.92	2	49
0.0%	200.0%	0.40	0.92	3	35
0.0%	(3.1%)	110.92	1.31	1	49
7.9%	(41.4%)	16.22	1.19	40	50
0.0%	177.8%	3.30	1.21	8	49
0.0%	(50.0%)	0.13	2.46	40	40
0.0%	250.0%	0.92	3.69	14	34
250.0%	600.0%	0.92	0.31	38	50
6.9%	(20.5%)	4.09	0.74	4	50
0.0%	100.0%	0.26	7.38	28	33
0.0%	0.0%	0.13	0.28	43	43
1.1%	26.3%	12.40	1.35	2	50
0.0%	(25.8%)	6.46	1.01	11	43
2.9%	8.5%	18.60	1.05	1	50
0.0%	723.1%	14.11	0.99	2	42

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 D 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
Staph Aureus VISA	1	1	1	2	3	4
Strep Disease, Group A Invasive	14	14	14	24	26	26
Strep Pneumoniae, Drug-Resistant	53	53	52	21	22	31
Tb Infection	320	318	315	276	294	299
Toxic Shock (Strep) Syndrome	2	2	1	1	1	1
Tuberculosis	8	8	8	8	11	15
Tularemia	19	17	16	6	8	8
Varicella (Chickenpox)	53	53	53	No Data	45	No Data
Vibriosis	1	1	1	No Data	0	No Data
West Nile Viral Encephalitis/Meningitis	1	1	1	1	2	2
Yersiniosis	1	1	1	1	1	1

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 D 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%	(66.7%)	0.13	0.31	9	9
0.0%	(46.2%)	1.85	0.85	1	19
0.0%	140.9%	6.99	1.51	1	49
0.6%	8.8%	42.21	0.85	1	50
0.0%	100.0%	0.26	2.46	36	49
0.0%	(27.3%)	1.06	0.62	4	46
11.8%	137.5%	2.51	3.26	19	50
0.0%	17.3%	6.99	2.64	1	46
0.0%	0.0%	0.13	1.23	1	1
0.0%	(33.3%)	0.13	0.92	35	35
0.0%	0.0%	0.13	0.28	8	8

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 D 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
Anaplasma phagocytophilum	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Animal Bites	Old	1	1	27	Above Median	Above Median	Increase	Above Normal
Brucellosis	Old	49		1	Above Median	Below Median	Increase	Above Normal
Campylobacteriosis	Old	1	1	7	Above Maximum	Above Maximum	Increase	Very Elevated
Coccidioidomycosis	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Creutzfeldt-Jakob Disease (CJD)	Old	40	40	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	1	1	4	Above Maximum	Above Maximum	Increase	Very Elevated
Cyclosporiasis	Old	31	31	0	Below Median	Below Median	Flat	Below Normal
Dengue Fever	Old	6	6	0	Above Maximum	Above Maximum	Flat	Very Elevated
E Coli Shiga Toxin Positive	Old	3	3	1	Above Maximum	Above Maximum	Increase	Very Elevated
E. Coli O157 H7	Old	6	6	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia ewingii	Old	22	22	0	Above Median	Above Median	Flat	Above Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	18	18	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	3	3	2	Below Median	Below Median	Increase	Below Normal
Haemophilus Influenzae, Invasive	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Hemolytic Uremic Syndrome	Old	5	5	0	Below Median	Below Median	Flat	Below Normal
Hepatitis A Acute	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 for Week 50, 2016
Disease or Condition Analysis
Relative to Last Report run on 12/13/2016 for Week 49, 2016

Troop D 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 (Pregnancy) Prenatal	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Acute	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	2	2	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C Acute	Old	3	3	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis C, Chronic Infection	Old	1	1	15	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	29	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	8	8	1	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Listeriosis	Old	40	40	0	Below Median	Below Median	Flat	Below Normal
Lyme	Old	14	14	1	Above Maximum	Above Maximum	Increase	Very Elevated
Mumps	Old	38	38	6	Above Maximum	Below Median	Increase	Very Elevated
Pertussis	Old	4	4	5	Below Median	Below Median	Increase	Below Normal
Q Fever, Acute	Old	28	28	0	Above Maximum	Above Maximum	Flat	Very Elevated
Rabies Animal	Old	43	43	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	2	2	2	Above Median	Above Median	Increase	Above Normal
Rocky Mountain Spotted Fever	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	4	Above Maximum	Above Maximum	Increase	Very Elevated
Shigellosis	Old	2	2	0	Above Maximum	Above Maximum	Flat	Very Elevated
Staph Aureus VISA	Old	9	9	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 D 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 Disease, Group A Invasive	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	1	1	2	Above Maximum	Above Maximum	Increase	Very Elevated
Tb Infection	Old	1	1	10	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Toxic Shock (Strep) Syndrome	Old	36	36	0	Above Maximum	Above Maximum	Flat	Very Elevated
Tuberculosis	Old	4	4	0	Below Median	Below Median	Flat	Below Normal
Tularemia	Old	19	19	2	Above Maximum	Above Maximum	Increase	Very Elevated
Varicella (Chickenpox)	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Vibriosis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
West Nile Viral Encephalitis/Meningitis	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Yersiniosis	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>	0.40	2.21
<i>Animal Bites</i>	170.14	1.35
<i>Brucellosis</i>	0.13	2.46
<i>Campylobacteriosis</i>	50.38	2.18
<i>Coccidioidomycosis</i>	0.13	0.39
<i>Creutzfeldt-Jakob Disease (CJD)</i>	0.13	0.74
<i>Cryptosporidiosis</i>	16.09	2.23
<i>Cyclosporiasis</i>	0.13	0.34
<i>Dengue Fever</i>	0.40	1.84
<i>E Coli Shiga Toxin Positive</i>	7.52	2.23
<i>E. Coli O157 H7</i>	2.24	0.95
<i>Ehrlichia chaffeensis</i>	7.12	1.75
<i>Ehrlichia ewingii</i>	0.40	2.46
<i>Ehrlichiosis or Anaplasmosis, Undetermined</i>	0.26	1.64
<i>Giardiasis</i>	5.67	0.98
<i>Haemophilus Influenzae, Invasive</i>	3.30	1.38
<i>Hemolytic Uremic Syndrome</i>	0.79	2.46
<i>Hepatitis A Acute</i>	0.26	0.98
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.98	1.13
<i>Hepatitis B Acute</i>	1.32	1.99
<i>Hepatitis B Chronic Infection</i>	6.59	0.92
<i>Hepatitis C Acute</i>	0.40	0.92
<i>Hepatitis C, Chronic Infection</i>	110.92	1.31
<i>Influenza</i>	16.22	1.19
<i>Legionellosis</i>	3.30	1.21
<i>Listeriosis</i>	0.13	2.46
<i>Lyme</i>	0.92	3.69
<i>Mumps</i>	0.92	0.31
<i>Pertussis</i>	4.09	0.74
<i>Q Fever, Acute</i>	0.26	7.38
<i>Rabies Animal</i>	0.13	0.28
<i>Rabies Post Exposure Prophylaxis</i>	12.40	1.35
<i>Rocky Mountain Spotted Fever</i>	6.46	1.01
<i>Salmonellosis</i>	18.60	1.05
<i>Shigellosis</i>	14.11	0.99
<i>Staph Aureus VISA</i>	0.13	0.31

(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>Strep Disease, Group A Invasive</i>	1.85	0.85
<i>Strep Pneumoniae, Drug-Resistant</i>	6.99	1.51
<i>Tb Infection</i>	42.21	0.85
<i>Toxic Shock (Strep) Syndrome</i>	0.26	2.46
<i>Tuberculosis</i>	1.06	0.62
<i>Tularemia</i>	2.51	3.26
<i>Varicella (Chickenpox)</i>	6.99	2.64
<i>Vibriosis</i>	0.13	1.23
<i>West Nile Viral Encephalitis/Meningitis</i>	0.13	0.92
<i>Yersiniosis</i>	0.13	0.28

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

Troop D 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	0.1	0.0	0.1	0.0	0.1
Campylobacteriosis		3.5	4.8	4.0	5.0	4.8	5.3
Creutzfeldt-Jakob Disease (CJD)		0.0	0.1	0.0	0.1	0.0	0.1
Cryptosporidiosis		1.8	2.5	2.3	2.7	1.5	2.8
E Coli Shiga Toxin Positive		2.0	1.0	2.0	1.0	1.3	1.1
E. Coli O157 H7		0.0	1.5	0.0	1.5	0.0	1.5
Ehrlichia chaffeensis		0.0	0.7	0.0	0.8	0.0	1.0
Giardiasis		0.5	2.3	0.5	2.4	0.5	2.3
Haemophilus Influenzae, Invasive		0.3	0.8	0.3	0.8	0.5	0.8
Hemolytic Uremic Syndrome		0.0	0.2	0.0	0.2	0.0	0.3
Hepatitis A Acute		0.0	0.2	0.0	0.2	0.0	0.2
Hepatitis B (Pregnancy) Prenatal		0.0	0.7	0.0	0.7	0.3	0.7
Hepatitis B Acute		0.3	0.8	0.3	0.8	0.0	0.8
Hepatitis B Chronic Infection		0.5	1.1	0.8	1.1	0.8	1.1
Hepatitis C, Chronic Infection		3.5	23.8	5.8	24.2	6.5	24.1
Legionellosis		0.3	0.5	0.3	0.5	0.0	0.5
Listeriosis		0.0	0.2	0.0	0.2	0.0	0.3
Pertussis		1.5	1.1	1.3	1.1	1.3	1.1
Rocky Mountain Spotted Fever		0.0	1.4	0.0	1.6	0.0	2.1
Salmonellosis		2.0	2.7	1.5	2.9	1.8	3.1
Shigellosis		0.0	3.0	0.0	2.9	0.0	2.9
Strep Disease, Group A Invasive		0.0	0.9	0.0	0.8	0.0	0.8
Strep Pneumoniae, Drug-Resistant		1.3	0.7	2.0	0.7	2.0	0.7
Tuberculosis		0.0	0.4	0.5	0.4	0.5	0.5
Tularemia		0.8	0.2	0.5	0.2	0.5	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.

Troop D Total

