

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Greene County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Greene 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

Greene County

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	329	329	329	No Data	350	No Data	0.0%	(6.1%)	136.86	1.08	1	47
Brucellosis	1	1	0	No Data	0	No Data	0.0%	0.0%	0.42	7.76	49	49
Campylobacteriosis	113	110	110	20	21	40	2.7%	438.1%	47.01	2.03	1	50
Coccidioidomycosis	1	1	1	1	1	1	0.0%	0.0%	0.42	1.23	12	12
Creutzfeldt-Jakob Disease (CJD)	1	1	1	1	1	2	0.0%	0.0%	0.42	2.33	40	40
Cryptosporidiosis	36	36	36	15	16	17	0.0%	125.0%	14.98	2.08	5	46
Cyclosporiasis	1	1	1	No Data	0	No Data	0.0%	0.0%	0.42	1.06	31	31
Dengue Fever	1	1	1	1	1	1	0.0%	0.0%	0.42	1.94	46	46
E Coli Shiga Toxin Positive	21	21	21	10	12	13	0.0%	75.0%	8.74	2.59	3	48
E. Coli O157 H7	9	9	9	5	5	10	0.0%	80.0%	3.74	1.59	6	37
Ehrlichia chaffeensis	8	8	8	9	12	16	0.0%	(33.3%)	3.33	0.82	20	39
Ehrlichia ewingii	1	1	1	1	1	1	0.0%	0.0%	0.42	2.59	22	22
Ehrlichiosis or Anaplasmosis, Undetermined	1	1	1	No Data	1	No Data	0.0%	0.0%	0.42	2.59	31	31
Giardiasis	14	14	14	10	11	22	0.0%	27.3%	5.82	1.01	3	43
Haemophilus Influenzae, Invasive	9	9	9	3	5	9	0.0%	80.0%	3.74	1.56	1	35
Hemolytic Uremic Syndrome	2	2	2	1	2	2	0.0%	33.3%	0.83	2.59	15	28
Hepatitis B (Pregnancy) Prenatal	4	4	4	5	6	6	0.0%	(33.3%)	1.66	0.95	3	36
Hepatitis B Acute	4	4	3	5	9	9	0.0%	(55.6%)	1.66	2.52	1	49
Hepatitis B Chronic Infection	26	26	25	18	20	27	0.0%	30.0%	10.82	1.51	6	49
Hepatitis C, Chronic Infection	320	320	318	376	379	391	0.0%	(15.6%)	133.12	1.58	1	49
Influenza	10	10	10	No Data	39	No Data	0.0%	(74.4%)	4.16	0.31	40	46
Legionellosis	8	8	7	2	2	10	0.0%	300.0%	3.33	1.23	8	49
Mumps	1	0	0	1	1	1	0.0%	0.0%	0.42	0.14	50	50
Pertussis	18	17	16	9	15	16	5.9%	20.0%	7.49	1.35	5	50
Rabies Post Exposure Prophylaxis	41	41	41	No Data	30	No Data	0.0%	38.5%	17.06	1.85	3	47
Rocky Mountain Spotted Fever	2	2	2	9	14	15	0.0%	(85.7%)	0.83	0.13	26	36
Salmonellosis	43	40	40	35	37	42	7.5%	16.2%	17.89	1.01	2	50
Shigellosis	69	69	69	4	5	8	0.0%	1280.0%	28.70	2.02	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

Greene 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	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
Staph Aureus VISA	1	1	1	1	1	2	0.0%	0.0%	0.42	0.97	9	9
Strep Disease, Group A Invasive	6	6	6	11	13	13	0.0%	(53.8%)	2.50	1.15	1	19
Strep Pneumoniae, Drug-Resistant	24	24	24	9	13	16	0.0%	84.6%	9.98	2.16	1	48
Tb Infection	155	155	154	122	139	141	0.0%	11.5%	64.48	1.30	2	49
Tuberculosis	3	3	3	2	5	7	0.0%	(40.0%)	1.25	0.74	13	46
Tularemia	3	3	3	1	1	2	0.0%	200.0%	1.25	1.62	20	25
Varicella (Chickenpox)	9	9	9	No Data	4	No Data	0.0%	140.0%	3.74	1.42	14	43

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

Greene County

<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
Animal Bites	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Brucellosis	Old	49		1	Above Median	Below Median	Increase	Above Normal
Campylobacteriosis	Old	1	1	3	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	5	5	0	Above Maximum	Above Maximum	Flat	Very Elevated
Cyclosporiasis	Old	31	31	0	Above Median	Above Median	Flat	Above Normal
Dengue Fever	Old	46	46	0	Below Median	Below Median	Flat	Below Normal
E Coli Shiga Toxin Positive	Old	3	3	0	Above Maximum	Above Maximum	Flat	Very Elevated
E. Coli O157 H7	Old	6	6	0	Above Median	Above Median	Flat	Above Normal
Ehrlichia chaffeensis	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia ewingii	Old	22	22	0	Below Median	Below Median	Flat	Below Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	31	31	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Haemophilus Influenzae, Invasive	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Hemolytic Uremic Syndrome	Old	15	15	0	Above Median	Above Median	Flat	Above Normal
Hepatitis B (Pregnancy) Prenatal	Old	3	3	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Acute	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

Greene 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 Chronic Infection	Old	6	6	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C, Chronic Infection	Old	1	1	4	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	0	Below Median	Below Median	Flat	Below Normal
Legionellosis	Old	8	8	0	Above Median	Above 3 rd Quartile	Flat	Above Normal
Mumps	New	50		1	Below Median	Below Median	Increase	Below Normal
Pertussis	Old	5	5	2	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Rabies Post Exposure Prophylaxis	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Rocky Mountain Spotted Fever	Old	26	26	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	2	2	3	Above 3 rd Quartile	Above Median	Increase	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
Strep Disease, Group A Invasive	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Tb Infection	Old	2	2	5	Above Maximum	Above Maximum	Increase	Very Elevated
Tuberculosis	Old	13	13	0	Below Median	Below Median	Flat	Below Normal
Tularemia	Old	20	20	0	Above Maximum	Above Maximum	Flat	Very Elevated
Varicella (Chickenpox)	Old	14	14	0	Above Median	Above Median	Flat	Above 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>	136.86	1.08
<i>Brucellosis</i>	0.42	7.76
<i>Campylobacteriosis</i>	47.01	2.03
<i>Coccidioidomycosis</i>	0.42	1.23
<i>Creutzfeldt-Jakob Disease (CJD)</i>	0.42	2.33
<i>Cryptosporidiosis</i>	14.98	2.08
<i>Cyclosporiasis</i>	0.42	1.06
<i>Dengue Fever</i>	0.42	1.94
<i>E Coli Shiga Toxin Positive</i>	8.74	2.59
<i>E. Coli O157 H7</i>	3.74	1.59
<i>Ehrlichia chaffeensis</i>	3.33	0.82
<i>Ehrlichia ewingii</i>	0.42	2.59
<i>Ehrlichiosis or Anaplasmosis, Undetermined</i>	0.42	2.59
<i>Giardiasis</i>	5.82	1.01
<i>Haemophilus Influenzae, Invasive</i>	3.74	1.56
<i>Hemolytic Uremic Syndrome</i>	0.83	2.59
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.66	0.95
<i>Hepatitis B Acute</i>	1.66	2.52
<i>Hepatitis B Chronic Infection</i>	10.82	1.51
<i>Hepatitis C, Chronic Infection</i>	133.12	1.58
<i>Influenza</i>	4.16	0.31
<i>Legionellosis</i>	3.33	1.23
<i>Mumps</i>	0.42	0.14
<i>Pertussis</i>	7.49	1.35
<i>Rabies Post Exposure Prophylaxis</i>	17.06	1.85
<i>Rocky Mountain Spotted Fever</i>	0.83	0.13
<i>Salmonellosis</i>	17.89	1.01
<i>Shigellosis</i>	28.70	2.02
<i>Staph Aureus VISA</i>	0.42	0.97
<i>Strep Disease, Group A Invasive</i>	2.50	1.15
<i>Strep Pneumoniae, Drug-Resistant</i>	9.98	2.16
<i>Tb Infection</i>	64.48	1.30
<i>Tuberculosis</i>	1.25	0.74
<i>Tularemia</i>	1.25	1.62
<i>Varicella (Chickenpox)</i>	3.74	1.42

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

Greene County

<i>Disease or Condition</i>	<i>Analysis Results¹</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		1.0	1.5	1.3	1.6	2.3	1.7
Cryptosporidiosis		0.0	0.8	0.3	1.0	0.5	1.1
E Coli Shiga Toxin Positive		0.5	0.8	0.8	0.8	0.8	0.8
E. Coli O157 H7		0.0	0.3	0.0	0.3	0.0	0.3
Ehrlichia chaffeensis		0.0	0.1	0.0	0.1	0.0	0.1
Giardiasis		0.0	0.8	0.0	0.8	0.0	0.8
Haemophilus Influenzae, Invasive		0.0	0.4	0.0	0.4	0.0	0.4
Hepatitis B Acute		0.3	0.3	0.3	0.3	0.0	0.3
Hepatitis B Chronic Infection		0.3	0.8	0.5	0.8	0.3	0.8
Hepatitis C, Chronic Infection		0.5	10.5	1.8	10.6	2.0	10.6
Pertussis		0.8	0.4	0.8	0.5	0.8	0.5
Rocky Mountain Spotted Fever		0.0	0.3	0.0	0.3	0.0	0.3
Salmonellosis		1.0	0.9	0.3	0.9	0.5	0.9
Shigellosis		0.0	0.5	0.0	0.5	0.0	0.5
Strep Disease, Group A Invasive		0.0	0.6	0.0	0.6	0.0	0.6
Strep Pneumoniae, Drug-Resistant		0.5	0.5	0.8	0.5	0.8	0.4
Tularemia		0.0	0.2	0.0	0.2	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.

Greene County

