

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Boone County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Boone 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

Boone 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	203	203	203	No Data	271	No Data	0.0%	(25.0%)	149.87	1.19	1	45
Brucellosis	2	2	2	1	1	1	0.0%	100.0%	1.48	27.54	16	27
Campylobacteriosis	44	44	44	22	25	26	0.0%	76.0%	32.48	1.41	1	45
Coccidioidomycosis	1	1	1	1	1	2	0.0%	0.0%	0.74	2.17	25	25
Cryptosporidiosis	19	19	19	8	9	13	0.0%	111.1%	14.03	1.95	2	45
Cyclosporiasis	2	2	2	No Data	0	No Data	0.0%	0.0%	1.48	3.76	29	29
E Coli Shiga Toxin Positive	10	10	10	3	5	8	0.0%	100.0%	7.38	2.19	2	48
E. Coli O157 H7	11	11	11	3	6	7	0.0%	83.3%	8.12	3.44	17	43
Ehrlichia chaffeensis	4	4	4	3	3	10	0.0%	33.3%	2.95	0.72	28	42
Giardiasis	20	20	20	11	13	19	0.0%	53.8%	14.77	2.56	3	41
Haemophilus Influenzae, Invasive	1	1	1	2	3	3	0.0%	(66.7%)	0.74	0.31	33	33
Hemolytic Uremic Syndrome	3	3	3	1	2	2	0.0%	100.0%	2.21	6.88	30	36
Hepatitis B (Pregnancy) Prenatal	2	2	2	6	7	8	0.0%	(71.4%)	1.48	0.84	24	39
Hepatitis B Acute	1	1	1	1	1	2	0.0%	0.0%	0.74	1.12	43	43
Hepatitis B Chronic Infection	13	13	13	11	12	20	0.0%	8.3%	9.60	1.34	1	37
Hepatitis C Acute	2	2	2	1	1	1	0.0%	100.0%	1.48	3.44	13	15
Hepatitis C, Chronic Infection	95	95	95	120	139	155	0.0%	(31.7%)	70.13	0.83	1	47
Influenza	50	39	34	No Data	296	No Data	28.2%	(83.1%)	36.91	2.72	40	50
Meningococcal Disease	1	1	1	1	1	2	0.0%	0.0%	0.74	10.33	6	6
Mumps	143	139	118	28	28	28	2.9%	410.7%	105.57	35.37	16	50
Pertussis	3	3	3	4	5	6	0.0%	(40.0%)	2.21	0.40	7	44
Rabies Animal	3	3	3	2	2	6	0.0%	50.0%	2.21	4.77	19	35
Rabies Post Exposure Prophylaxis	17	17	17	No Data	19	No Data	0.0%	(9.6%)	12.55	1.36	3	38
Rocky Mountain Spotted Fever	12	12	12	2	4	7	0.0%	200.0%	8.86	1.39	20	39
Salmonellosis	25	25	22	15	17	19	0.0%	47.1%	18.46	1.04	1	49
Shigellosis	9	9	9	2	3	6	0.0%	200.0%	6.64	0.47	1	37
Staph Aureus VISA	1	1	1	No Data	0	No Data	0.0%	0.0%	0.74	1.72	16	16
Strep Disease, Group A Invasive	3	3	3	2	2	3	0.0%	50.0%	2.21	1.02	8	21

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

Boone 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
Strep Pneumoniae, <5 Years, Invasive	1	1	1	2	3	3	0.0%	(60.0%)	0.74	6.88	7	7
Strep Pneumoniae, Drug-Resistant	5	4	4	1	2	3	25.0%	233.3%	3.69	0.80	7	50
Tb Infection	116	116	114	159	166	205	0.0%	(30.1%)	85.64	1.73	1	49
Tuberculosis	4	4	4	2	3	4	0.0%	60.0%	2.95	1.74	9	35
Tularemia	2	2	1	1	2	2	0.0%	33.3%	1.48	1.92	28	49
Varicella (Chickenpox)	5	5	5	No Data	13	No Data	0.0%	(61.5%)	3.69	1.40	1	36

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

Boone 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
Animal Bites	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Brucellosis	Old	16	16	0	Above Maximum	Above Maximum	Flat	Very Elevated
Campylobacteriosis	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Coccidioidomycosis	Old	25	25	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	2	2	1	Above Maximum	Above Maximum	Increase	Very Elevated
Cyclosporiasis	Old	29	29	0	Above Median	Above Median	Flat	Above Normal
E Coli Shiga Toxin Positive	Old	2	2	0	Above Maximum	Above Maximum	Flat	Very Elevated
E. Coli O157 H7	Old	17	17	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Ehrlichia chaffeensis	Old	28	28	0	Above Median	Above Median	Flat	Above Normal
Giardiasis	Old	3	3	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Haemophilus Influenzae, Invasive	Old	33	33	0	Below Median	Below Median	Flat	Below Normal
Hemolytic Uremic Syndrome	Old	30	30	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis B (Pregnancy) Prenatal	Old	24	24	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Acute	Old	43	43	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C Acute	Old	13	13	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis C, Chronic Infection	Old	1	1	1	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	18	Below Median	Below Median	Increase	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

Boone 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
Meningococcal Disease	Old	6	6	0	Below Median	Below Median	Flat	Below Normal
Mumps	Old	16	16	56	Above Maximum	Above Maximum	Increase	Very Elevated
Pertussis	Old	7	7	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	3	3	0	Below Median	Below Median	Flat	Below Normal
Rocky Mountain Spotted Fever	Old	20	20	0	Above Maximum	Above Maximum	Flat	Very Elevated
Salmonellosis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Shigellosis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Staph Aureus VISA	Old	16	16	0	Above Median	Above Median	Flat	Above Normal
Strep Disease, Group A Invasive	Old	8	8	0	Above Median	Above Median	Flat	Above Normal
Strep Pneumoniae, <5 Years, Invasive	Old	7	7	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	7	7	1	Above Maximum	Above Maximum	Increase	Very Elevated
Tb Infection	Old	1	1	6	Below Median	Below Median	Increase	Below Normal
Tuberculosis	Old	9	9	0	Above Median	Above Median	Flat	Above Normal
Tularemia	Old	28	28	0	Above Median	Above Median	Flat	Above Normal
Varicella (Chickenpox)	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
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>	149.87	1.19
<i>Brucellosis</i>	1.48	27.54
<i>Campylobacteriosis</i>	32.48	1.41
<i>Coccidioidomycosis</i>	0.74	2.17
<i>Cryptosporidiosis</i>	14.03	1.95
<i>Cyclosporiasis</i>	1.48	3.76
<i>E Coli Shiga Toxin Positive</i>	7.38	2.19
<i>E. Coli O157 H7</i>	8.12	3.44
<i>Ehrlichia chaffeensis</i>	2.95	0.72
<i>Giardiasis</i>	14.77	2.56
<i>Haemophilus Influenzae, Invasive</i>	0.74	0.31
<i>Hemolytic Uremic Syndrome</i>	2.21	6.88
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.48	0.84
<i>Hepatitis B Acute</i>	0.74	1.12
<i>Hepatitis B Chronic Infection</i>	9.60	1.34
<i>Hepatitis C Acute</i>	1.48	3.44
<i>Hepatitis C, Chronic Infection</i>	70.13	0.83
<i>Influenza</i>	36.91	2.72
<i>Meningococcal Disease</i>	0.74	10.33
<i>Mumps</i>	105.57	35.37
<i>Pertussis</i>	2.21	0.40
<i>Rabies Animal</i>	2.21	4.77
<i>Rabies Post Exposure Prophylaxis</i>	12.55	1.36
<i>Rocky Mountain Spotted Fever</i>	8.86	1.39
<i>Salmonellosis</i>	18.46	1.04
<i>Shigellosis</i>	6.64	0.47
<i>Staph Aureus VISA</i>	0.74	1.72
<i>Strep Disease, Group A Invasive</i>	2.21	1.02
<i>Strep Pneumoniae, <5 Years, Invasive</i>	0.74	6.88
<i>Strep Pneumoniae, Drug-Resistant</i>	3.69	0.80
<i>Tb Infection</i>	85.64	1.73
<i>Tuberculosis</i>	2.95	1.74
<i>Tularemia</i>	1.48	1.92
<i>Varicella (Chickenpox)</i>	3.69	1.40

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

Boone County

<i>Disease or Condition</i>	<i>Analysis Results ¹</i>	<i>4-week Count Mean for Week 50 ²</i>	<i>Upper Limit for Week 50 ³</i>	<i>4-week Count Mean for Week 49 ²</i>	<i>Upper Limit for Week 49 ³</i>	<i>4-week Count Mean for Week 48 ²</i>	<i>Upper Limit for Week 48 ³</i>
Campylobacteriosis		0.0	1.4	0.0	1.4	0.3	1.5
Cryptosporidiosis		0.0	0.5	0.0	0.6	0.3	0.7
E. Coli O157 H7		0.0	0.5	0.0	0.5	0.0	0.5
Giardiasis		0.0	1.0	0.0	1.0	0.0	1.0
Hepatitis B (Pregnancy) Prenatal		0.0	0.3	0.0	0.4	0.0	0.4
Hepatitis B Chronic Infection		0.0	0.6	0.0	0.6	0.0	0.6
Hepatitis C, Chronic Infection		0.5	4.1	1.0	4.2	1.3	4.3
Pertussis		0.0	1.9	0.0	1.9	0.0	1.9
Salmonellosis		1.0	0.8	1.0	0.8	0.3	0.9

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.**

Boone County

