

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Independence

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

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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

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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
Animal Bites	262	257	252	No Data	100	No Data	1.9%	161.1%	231.27	1.83	1	51
Campylobacteriosis	32	32	32	6	7	17	0.0%	357.1%	28.25	1.22	3	46
Coccidioidomycosis	2	2	2	1	2	2	0.0%	33.3%	1.77	5.20	13	40
Cryptosporidiosis	2	2	2	4	5	12	0.0%	(60.0%)	1.77	0.25	28	39
E Coli Shiga Toxin Positive	2	1	1	1	2	3	100.0%	33.3%	1.77	0.52	25	50
E. Coli O157 H7	1	1	1	1	1	1	0.0%	0.0%	0.88	0.37	19	19
Ehrlichia chaffeensis	1	1	1	2	3	3	0.0%	(66.7%)	0.88	0.22	28	28
Giardiasis	6	6	6	1	2	3	0.0%	200.0%	5.30	0.92	4	34
Haemophilus Influenzae, Invasive	6	6	6	1	1	3	0.0%	500.0%	5.30	2.21	14	44
Hepatitis B (Pregnancy) Prenatal	3	2	2	1	2	2	50.0%	50.0%	2.65	1.51	18	50
Hepatitis B Acute	1	1	1	1	2	3	0.0%	(33.3%)	0.88	1.33	46	46
Hepatitis B Chronic Infection	7	7	7	6	7	8	0.0%	0.0%	6.18	0.86	12	48
Hepatitis C Acute	1	1	1	1	1	3	0.0%	0.0%	0.88	2.06	48	48
Hepatitis C, Chronic Infection	115	114	112	77	103	115	0.9%	11.7%	101.51	1.20	1	50
Influenza	6	5	5	No Data	28	No Data	20.0%	(78.4%)	5.30	0.39	43	50
Legionellosis	3	3	3	4	5	5	0.0%	(33.3%)	2.65	0.97	4	23
Malaria	2	1	1	1	1	1	100.0%	100.0%	1.77	5.81	22	50
Pertussis	21	21	19	4	6	12	0.0%	250.0%	18.54	3.35	32	49
Rabies Animal	1	1	1	No Data	0	No Data	0.0%	0.0%	0.88	1.90	42	42
Rabies Post Exposure Prophylaxis	6	5	4	No Data	4	No Data	20.0%	71.4%	5.30	0.58	9	50
Rocky Mountain Spotted Fever	1	1	1	2	2	2	0.0%	(50.0%)	0.88	0.14	35	35
Salmonellosis	14	13	13	10	11	11	7.7%	27.3%	12.36	0.70	7	50
Shigellosis	42	42	42	2	3	20	0.0%	1580.0%	37.07	2.60	1	42
Strep Disease, Group A Invasive	7	7	7	5	7	7	0.0%	0.0%	6.18	2.86	2	19
Strep Pneumoniae, Drug-Resistant	4	4	3	4	6	7	0.0%	(33.3%)	3.53	0.76	32	49
Tb Infection	3	3	3	3	4	6	0.0%	(25.0%)	2.65	0.05	35	38
Varicella (Chickenpox)	8	8	8	No Data	16	No Data	0.0%	(50.0%)	7.06	2.67	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

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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	5	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	3	3	0	Above Maximum	Above Maximum	Flat	Very Elevated
Coccidioidomycosis	Old	13	13	0	Above Median	Above Median	Flat	Above Normal
Cryptosporidiosis	Old	28	28	0	Below Median	Below Median	Flat	Below Normal
E Coli Shiga Toxin Positive	Old	25	25	1	Above Median	Below Median	Increase	Above Normal
E. Coli O157 H7	Old	19	19	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	28	28	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	4	4	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Haemophilus Influenzae, Invasive	Old	14	14	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis B (Pregnancy) Prenatal	Old	18	18	1	Above Maximum	Below Median	Increase	Very Elevated
Hepatitis B Acute	Old	46	46	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C Acute	Old	48	48	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	1	Above 3 rd Quartile	Above 3 rd Quartile	Increase	Elevated
Influenza	Old	43	43	1	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	4	4	0	Below Median	Below Median	Flat	Below Normal
Malaria	Old	22	22	1	Above Maximum	Below Median	Increase	Very Elevated
Pertussis	Old	32	32	-1	Above 3 rd Quartile	Above 3 rd Quartile	Decrease	Elevated
Rabies Animal	Old	42	42	0	Above Median	Above Median	Flat	Above Normal
Rabies Post Exposure Prophylaxis	Old	9	9	1	Above Median	Above Median	Increase	Above Normal
Rocky Mountain Spotted Fever	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	7	7	1	Above Maximum	Above 3 rd Quartile	Increase	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

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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
Shigellosis	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Strep Disease, Group A Invasive	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	32	32	1	Below Median	Below Median	Increase	Below Normal
Tb Infection	Old	35	35	0	Below Median	Below Median	Flat	Below 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>	231.27	1.83
<i>Campylobacteriosis</i>	28.25	1.22
<i>Coccidioidomycosis</i>	1.77	5.20
<i>Cryptosporidiosis</i>	1.77	0.25
<i>E Coli Shiga Toxin Positive</i>	1.77	0.52
<i>E. Coli O157 H7</i>	0.88	0.37
<i>Ehrlichia chaffeensis</i>	0.88	0.22
<i>Giardiasis</i>	5.30	0.92
<i>Haemophilus Influenzae, Invasive</i>	5.30	2.21
<i>Hepatitis B (Pregnancy) Prenatal</i>	2.65	1.51
<i>Hepatitis B Acute</i>	0.88	1.33
<i>Hepatitis B Chronic Infection</i>	6.18	0.86
<i>Hepatitis C Acute</i>	0.88	2.06
<i>Hepatitis C, Chronic Infection</i>	101.51	1.20
<i>Influenza</i>	5.30	0.39
<i>Legionellosis</i>	2.65	0.97
<i>Malaria</i>	1.77	5.81
<i>Pertussis</i>	18.54	3.35
<i>Rabies Animal</i>	0.88	1.90
<i>Rabies Post Exposure Prophylaxis</i>	5.30	0.58
<i>Rocky Mountain Spotted Fever</i>	0.88	0.14
<i>Salmonellosis</i>	12.36	0.70
<i>Shigellosis</i>	37.07	2.60
<i>Strep Disease, Group A Invasive</i>	6.18	2.86
<i>Strep Pneumoniae, Drug-Resistant</i>	3.53	0.76
<i>Tb Infection</i>	2.65	0.05
<i>Varicella (Chickenpox)</i>	7.06	2.67

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

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<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		0.0	0.9	0.5	0.9	0.5	0.9
Cryptosporidiosis		0.0	0.4	0.0	0.5	0.0	0.7
Hepatitis C, Chronic Infection		1.5	3.8	1.8	4.0	1.3	4.1
Pertussis		0.8	0.6	2.3	0.6	2.8	0.7
Salmonellosis		0.3	0.5	0.3	0.5	0.3	0.5
Strep Disease, Group A Invasive		0.0	0.3	0.0	0.3	0.0	0.3

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.

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