

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Jackson County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Jackson 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

Jackson County

Disease or Condition	Week 50 YTD¹	Week 49 YTD¹	Week 48 YTD¹	Five Year 1st Quartile	Five Year Median	Five Year 3rd Quartile
Animal Bites	15	15	15	No Data	100	No Data
Campylobacteriosis	48	48	48	5	9	23
Coccidioidomycosis	1	1	1	1	1	1
Cryptosporidiosis	12	12	12	6	6	27
Cyclosporiasis	4	4	4	1	1	2
E Coli Shiga Toxin Positive	7	6	6	4	4	4
E. Coli O157 H7	4	4	4	1	2	4
Ehrlichia chaffeensis	5	5	5	4	5	12
Giardiasis	6	5	5	6	7	9
Haemophilus Influenzae, Invasive	3	3	3	2	3	5
Hemolytic Uremic Syndrome	2	2	2	1	1	1
Hepatitis A Acute	1	1	1	1	1	1
Hepatitis B (Pregnancy) Prenatal	4	4	4	3	3	4
Hepatitis B Chronic Infection	15	15	14	8	10	12
Hepatitis C Acute	2	2	2	2	2	2
Hepatitis C, Chronic Infection	84	84	83	85	104	117
Influenza	30	30	29	No Data	216	No Data
Legionellosis	10	10	10	2	4	4
Malaria	3	3	3	1	1	1
Pertussis	21	21	21	14	15	19
Rabies Animal	1	1	1	4	4	4
Rabies Post Exposure Prophylaxis	25	25	25	No Data	11	No Data
Rocky Mountain Spotted Fever	3	3	3	3	3	6
Salmonellosis	28	28	28	24	27	29
Shigellosis	21	21	21	1	4	90
Strep Pneumoniae, <5 Years, Invasive	1	1	1	1	2	2
Strep Pneumoniae, Drug-Resistant	10	10	10	5	8	10
Tb Infection	129	127	126	107	123	153
Tuberculosis	3	3	3	6	18	26
Varicella (Chickenpox)	4	4	4	No Data	10	No Data
West Nile Viral Encephalitis/Meningitis	1	1	1	No Data	0	No Data
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

Jackson County

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%	(85.0%)	6.86	0.05	4	36
0.0%	433.3%	21.94	0.95	1	45
0.0%	0.0%	0.46	1.35	19	19
0.0%	100.0%	5.48	0.76	1	42
0.0%	300.0%	1.83	4.65	26	32
16.7%	75.0%	3.20	0.95	8	50
0.0%	100.0%	1.83	0.77	1	40
0.0%	0.0%	2.29	0.56	26	40
20.0%	(14.3%)	2.74	0.48	19	50
0.0%	0.0%	1.37	0.57	3	29
0.0%	100.0%	0.91	2.84	11	13
0.0%	0.0%	0.46	1.70	6	6
0.0%	33.3%	1.83	1.04	7	46
0.0%	50.0%	6.86	0.96	3	49
0.0%	0.0%	0.91	2.13	4	12
0.0%	(19.2%)	38.39	0.45	1	49
0.0%	(86.1%)	13.71	1.01	40	49
0.0%	150.0%	4.57	1.68	4	37
0.0%	200.0%	1.37	4.51	15	39
0.0%	40.0%	9.60	1.73	16	48
0.0%	(75.0%)	0.46	0.98	26	26
0.0%	131.5%	11.43	1.24	2	37
0.0%	0.0%	1.37	0.21	25	38
0.0%	3.7%	12.80	0.72	1	48
0.0%	425.0%	9.60	0.67	3	44
0.0%	(50.0%)	0.46	4.26	12	12
0.0%	25.0%	4.57	0.99	2	46
1.6%	4.9%	58.96	1.19	1	50
0.0%	(82.9%)	1.37	0.81	2	37
0.0%	(58.3%)	1.83	0.69	11	36
0.0%	0.0%	0.46	3.20	37	37
0.0%	0.0%	0.46	0.98	30	30

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

Jackson 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	4	4	0	Below Median	Below Median	Flat	Below Normal
Campylobacteriosis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Coccidioidomycosis	Old	19	19	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
E Coli Shiga Toxin Positive	Old	8	8	0	Above Maximum	Above Maximum	Flat	Very Elevated
E. Coli O157 H7	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Ehrlichia chaffeensis	Old	26	26	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	19	19	1	Below Median	Below Median	Increase	Below Normal
Haemophilus Influenzae, Invasive	Old	3	3	0	Below Median	Below Median	Flat	Below Normal
Hemolytic Uremic Syndrome	Old	11	11	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	7	7	0	Above Median	Above 3 rd Quartile	Flat	Above Normal
Hepatitis B Chronic Infection	Old	3	3	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis C Acute	Old	4	4	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	1	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	0	Below Median	Below Median	Flat	Below Normal
Legionellosis	Old	4	4	0	Above Maximum	Above Maximum	Flat	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

Jackson 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
Malaria	Old	15	15	0	Above Maximum	Above Maximum	Flat	Very Elevated
Pertussis	Old	16	16	-1	Above 3 rd Quartile	Above 3 rd Quartile	Decrease	Elevated
Rabies Animal	Old	26	26	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	2	2	0	Above Median	Above Median	Flat	Above Normal
Rocky Mountain Spotted Fever	Old	25	25	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Shigellosis	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Strep Pneumoniae, <5 Years, Invasive	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	2	2	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Tb Infection	Old	1	1	3	Above Median	Above Median	Increase	Above Normal
Tuberculosis	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Varicella (Chickenpox)	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
West Nile Viral Encephalitis/Meningitis	Old	37	37	0	Above Median	Above Median	Flat	Above Normal
Yersiniosis	Old	30	30	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>	6.86	0.05
<i>Campylobacteriosis</i>	21.94	0.95
<i>Coccidioidomycosis</i>	0.46	1.35
<i>Cryptosporidiosis</i>	5.48	0.76
<i>Cyclosporiasis</i>	1.83	4.65
<i>E Coli Shiga Toxin Positive</i>	3.20	0.95
<i>E. Coli O157 H7</i>	1.83	0.77
<i>Ehrlichia chaffeensis</i>	2.29	0.56
<i>Giardiasis</i>	2.74	0.48
<i>Haemophilus Influenzae, Invasive</i>	1.37	0.57
<i>Hemolytic Uremic Syndrome</i>	0.91	2.84
<i>Hepatitis A Acute</i>	0.46	1.70
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.83	1.04
<i>Hepatitis B Chronic Infection</i>	6.86	0.96
<i>Hepatitis C Acute</i>	0.91	2.13
<i>Hepatitis C, Chronic Infection</i>	38.39	0.45
<i>Influenza</i>	13.71	1.01
<i>Legionellosis</i>	4.57	1.68
<i>Malaria</i>	1.37	4.51
<i>Pertussis</i>	9.60	1.73
<i>Rabies Animal</i>	0.46	0.98
<i>Rabies Post Exposure Prophylaxis</i>	11.43	1.24
<i>Rocky Mountain Spotted Fever</i>	1.37	0.21
<i>Salmonellosis</i>	12.80	0.72
<i>Shigellosis</i>	9.60	0.67
<i>Strep Pneumoniae, <5 Years, Invasive</i>	0.46	4.26
<i>Strep Pneumoniae, Drug-Resistant</i>	4.57	0.99
<i>Tb Infection</i>	58.96	1.19
<i>Tuberculosis</i>	1.37	0.81
<i>Varicella (Chickenpox)</i>	1.83	0.69
<i>West Nile Viral Encephalitis/Meningitis</i>	0.46	3.20
<i>Yersiniosis</i>	0.46	0.98

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

Jackson 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		0.0	1.1	0.0	1.1	0.5	1.1
Cryptosporidiosis		0.0	0.4	0.0	0.5	0.0	0.8
Giardiasis		0.3	0.9	0.0	0.9	0.0	0.9
Hepatitis B Chronic Infection		0.3	0.5	0.5	0.5	0.3	0.5
Hepatitis C, Chronic Infection		0.8	3.7	0.8	3.8	1.5	3.8
Legionellosis		0.0	0.1	0.0	0.1	0.0	0.2
Pertussis		0.8	1.4	1.5	1.5	1.8	1.6
Salmonellosis		0.3	1.0	0.5	1.0	0.5	1.1
Strep Pneumoniae, <5 Years, Invasive		0.0	0.2	0.0	0.2	0.0	0.2
Strep Pneumoniae, Drug-Resistant		0.0	0.4	0.3	0.4	0.5	0.4
Tuberculosis		0.0	0.5	0.0	0.5	0.0	0.5

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.

Jackson County