Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Jefferson County

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Jefferson 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

Jefferson County

Disease or Condition	Week 50 YTD[1]	Week 49 YTD[1]	Week 48 YTD[1]	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 Reported[2]	Last Week Reported[2]
Anaplasma phagocytophilum	1	1	1	1	1	1	0.0%	0.0%	0.50	2.82	25	25
Animal Bites	144	144	141	No Data	130	No Data	0.0%	11.2%	72.69	0.58	1	49
Campylobacteriosis	14	14	14	15	17	26	0.0%	(17.6%)	7.07	0.31	11	46
Creutzfeldt-Jakob Disease (CJD)	1	1	1	1	1	1	0.0%	0.0%	0.50	2.82	36	36
Cryptosporidiosis	1	1	1	3	3	5	0.0%	(66.7%)	0.50	0.07	42	42
Cyclosporiasis	4	4	4	No Data	0	No Data	0.0%	0.0%	2.02	5.14	33	38
E Coli Shiga Toxin Positive	4	4	4	4	6	7	0.0%	(33.3%)	2.02	0.60	9	36
E. Coli O157 H7	2	2	2	3	5	8	0.0%	(55.6%)	1.01	0.43	42	46
Ehrlichia chaffeensis	8	8	8	12	13	13	0.0%	(38.5%)	4.04	0.99	21	30
Giardiasis	6	6	6	5	7	8	0.0%	(14.3%)	3.03	0.52	1	34
Haemophilus Influenzae, Invasive	7	7	7	2	2	4	0.0%	250.0%	3.53	1.48	4	46
Hepatitis B (Pregnancy) Prenatal	4	4	4	2	2	3	0.0%	100.0%	2.02	1.15	10	29
Hepatitis B Acute	1	1	1	1	1	5	0.0%	0.0%	0.50	0.76	31	31
Hepatitis B Chronic Infection	7	7	7	5	6	8	0.0%	16.7%	3.53	0.49	4	35
Hepatitis C Acute	1	1	1	No Data	0	No Data	0.0%	0.0%	0.50	1.18	38	38
Hepatitis C, Chronic Infection	179	176	175	118	137	180	1.7%	30.7%	90.36	1.07	1	50
Influenza	16	15	11	No Data	234	No Data	6.7%	(93.2%)	8.08	0.59	41	50
Legionellosis	5	5	5	3	3	4	0.0%	66.7%	2.52	0.93	5	46
Lyme	1	1	1	No Data	0	No Data	0.0%	0.0%	0.50	2.02	35	35
Mumps	1	1	0	No Data	0	No Data	0.0%	0.0%	0.50	0.17	49	49
Pertussis	19	19	18	19	25	29	0.0%	(24.0%)	9.59	1.73	3	49
Rabies Post Exposure Prophylasis	6	6	6	No Data	12	No Data	0.0%	(48.3%)	3.03	0.33	7	43
Rocky Mountain Spotted Fever	15	15	15	8	9	10	0.0%	66.7%	7.57	1.19	14	41
Salmonellosis	31	31	31	30	33	36	0.0%	(6.1%)	15.65	0.88	7	47
Shigellosis	29	29	29	1	6	8	0.0%	383.3%	14.64	1.03	3	43
Staph Aureus VISA	2	2	2	4	6	9	0.0%	(66.7%)	1.01	2.35	8	44
Strep Disease, Group A Invasive	8	8	8	4	6	7	0.0%	33.3%	4.04	1.87	7	42
Strep Pneumoniae, <5 Years, Invasive	1	1	1	1	2	2	0.0%	(33.3%)	0.50	4.71	25	25

[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

Jefferson County

Disease or Condition	Week 50 YTD[1]	Week 49 YTD[1]	Week 48 YTD[1]	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 Reported[2]	Last Week Reported[2]
Strep Pneumoniae, Drug-Resistant	2	2	2	2	2	4	0.0%	0.0%	1.01	0.22	11	48
Tb Infection	45	45	44	39	39	43	0.0%	15.4%	22.72	0.46	1	49
Tuberculosis	2	2	2	1	1	2	0.0%	100.0%	1.01	0.59	21	44
Varicella (Chickenpox)	5	5	5	No Data	6	No Data	0.0%	(16.7%)	2.52	0.95	14	45
Yersiniosis	3	3	3	1	1	1	0.0%	200.0%	1.51	3.26	7	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 for Week 50, 2016
Disease or Condition Analysis
Relative to Last Report run on 12/13/2016 for Week 49, 2016

Jefferson County

Disease or Condition	Data Status [1,2]	1st Week Reported Current Report	1st 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]
Anaplasma phagocytophilum	Old	25	25	0	Below Median	Below Median	Flat	Below Normal
Animal Bites	Old	1	1	6	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Creutzfeldt-Jakob Disease (CJD)	Old	36	36	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	42	42	0	Below Median	Below Median	Flat	Below Normal
Cyclosporiasis	Old	33	33	0	Above Median	Above Median	Flat	Above Normal
E Coli Shiga Toxin Positive	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
E. Coli O157 H7	Old	42	42	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	21	21	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	1	1	0	Below Median	Above Median	Flat	Below Normal
Haemophilus Influenzae, Invasive	Old	4	4	1	Above 3rd Quartile	Above 3rd Quartile	Increase	Elevated
Hepatitis B (Pregnancy) Prenatal	Old	10	10	0	Above 3rd Quartile	Above 3rd Quartile	Flat	Elevated
Hepatitis B Acute	Old	31	31	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	4	4	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C Acute	Old	38	38	0	Above Median	Above Median	Flat	Above Normal
Hepatitis C, Chronic Infection	Old	1	1	4	Above Median	Above 3rd Quartile	Increase	Above Normal
Influenza	Old	41	41	5	Below Median	Below Median	Increase	Below Normal

[1] *Data Status: Old=Continuing Occurence in 2016, New=First Occurence in 2016 and Out=Case was Removed from WEBSURV*

[2] *First Week Reported and/or First Occurence 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

Jefferson County

Disease or Condition	Data Status [1,2]	1st Week Reported Current Report	1st 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]
Legionellosis	Old	5	5	0	Above Maximum	Above Maximum	Flat	Very Elevated
Lyme	Old	35	35	0	Above Median	Above Median	Flat	Above Normal
Mumps	Old	49		1	Above Median	Below Median	Increase	Above Normal
Pertussis	Old	3	3	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylasis	Old	7	7	0	Below Median	Below Median	Flat	Below Normal
Rocky Mountain Spotted Fever	Old	14	14	0	Above 3rd Quartile	Above 3rd Quartile	Flat	Elevated
Salmonellosis	Old	7	7	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	3	3	0	Above 3rd Quartile	Above 3rd Quartile	Flat	Elevated
Staph Aureus VISA	Old	8	8	0	Below Median	Below Median	Flat	Below Normal
Strep Disease, Group A Invasive	Old	7	7	0	Above 3rd Quartile	Above 3rd Quartile	Flat	Elevated
Strep Pneumoniae, <5 Years, Invasive	Old	25	25	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Tb Infection	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Tuberculosis	Old	21	21	0	Above Median	Above Median	Flat	Above Normal
Varicella (Chickenpox)	Old	14	14	0	Below Median	Below Median	Flat	Below Normal
Yersiniosis	Old	7	7	0	Above Maximum	Above Maximum	Flat	Very Elevated

[1] *Data Status: Old=Continuing Occurence in 2016, New=First Occurence in 2016 and Out=Case was Removed from WEBSURV*

[2] *First Week Reported and/or First Occurence 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

Disease or Condition	Rate[1]	Relative Rate[2,3,4]
Anaplasma phagocytophilum	0.50	2.82
Animal Bites	72.69	0.58
Campylobacteriosis	7.07	0.31
Creutzfeldt-Jakob Disease (CJD)	0.50	2.82
Cryptosporidiosis	0.50	0.07
Cyclosporiasis	2.02	5.14
E Coli Shiga Toxin Positive	2.02	0.60
E. Coli O157 H7	1.01	0.43
Ehrlichia chaffeensis	4.04	0.99
Giardiasis	3.03	0.52
Haemophilus Influenzae, Invasive	3.53	1.48
Hepatitis B (Pregnancy) Prenatal	2.02	1.15
Hepatitis B Acute	0.50	0.76
Hepatitis B Chronic Infection	3.53	0.49
Hepatitis C Acute	0.50	1.18
Hepatitis C, Chronic Infection	90.36	1.07
Influenza	8.08	0.59
Legionellosis	2.52	0.93
Lyme	0.50	2.02
Mumps	0.50	0.17
Pertussis	9.59	1.73
Rabies Post Exposure Prophylasis	3.03	0.33
Rocky Mountain Spotted Fever	7.57	1.19
Salmonellosis	15.65	0.88
Shigellosis	14.64	1.03
Staph Aureus VISA	1.01	2.35
Strep Disease, Group A Invasive	4.04	1.87
Strep Pneumoniae, <5 Years, Invasive	0.50	4.71
Strep Pneumoniae, Drug-Resistant	1.01	0.22
Tb Infection	22.72	0.46
Tuberculosis	1.01	0.59
Varicella (Chickenpox)	2.52	0.95
Yersiniosis	1.51	3.26

[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

Jefferson County

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]
Campylobacteriosis		0.0	1.2	0.3	1.2	0.3	1.2
E Coli Shiga Toxin Positive		0.0	0.3	0.0	0.3	0.0	0.4
E. Coli O157 H7		0.0	0.5	0.3	0.6	0.3	0.8
Ehrlichia chaffeensis		0.0	0.2	0.0	0.2	0.0	0.2
Hepatitis B Acute		0.0	0.2	0.0	0.2	0.0	0.2
Hepatitis C, Chronic Infection		2.0	4.8	1.5	4.8	1.8	4.9
Legionellosis		0.0	0.2	0.3	0.2	0.3	0.2
Pertussis		0.5	5.7	1.0	5.6	0.8	5.5
Rocky Mountain Spotted Fever		0.0	0.3	0.0	0.3	0.0	0.3
Salmonellosis		0.3	0.9	0.3	0.9	0.3	1.0

[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.*

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Reports
4-week Count Mean Z-Scores for Week 50, 2016
(Z-Scores greater than 2.0)

Jefferson County