

Missouri Department of Health and Senior
Services (DHSS)
Weekly Communicable Disease Report
for the
Central District

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Central District

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 and 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
Central District

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	First Week Reported ²	Last Week Reported
Animal Bites	927	925	918	No Data	870	No Data	0.2%	6.5%	149.24	1	51
Brucellosis	2	2	2	2	2	2	0.0%	0.0%	0.32	16	27
Campylobacteriosis	130	129	128	76	77	78	0.8%	68.8%	20.93	1	50
Coccidioidomycosis	3	3	3	1	2	2	0.0%	50.0%	0.48	13	41
Creutzfeldt-Jakob Disease (CJD)	2	2	2	1	1	1	0.0%	100.0%	0.32	9	14
Cryptosporidiosis	65	65	64	22	26	35	0.0%	150.0%	10.46	2	49
Cyclosporiasis	2	2	2	1	1	1	0.0%	100.0%	0.32	29	29
E Coli Shiga Toxin Positive	30	30	30	16	22	23	0.0%	36.4%	4.83	2	48
E. Coli O157 H7	44	44	44	11	17	21	0.0%	158.8%	7.08	17	46
Ehrlichia chaffeensis	40	40	40	25	32	63	0.0%	25.0%	6.44	14	42
Ehrlichiosis or Anaplasmosis, Undetermined	1	1	1	No Data	4	No Data	0.0%	(75.0%)	0.16	34	34
Giardiasis	50	50	50	35	35	39	0.0%	42.9%	8.05	3	46
Haemophilus Influenzae, Invasive	8	8	8	7	7	8	0.0%	14.3%	1.29	6	48
Hemolytic Uremic Syndrome	6	6	6	2	4	4	0.0%	50.0%	0.97	30	42
Hepatitis B (Pregnancy) Prenatal	7	7	7	8	12	12	0.0%	(41.7%)	1.13	4	39
Hepatitis B Acute	2	2	2	3	4	6	0.0%	(50.0%)	0.32	43	47
Hepatitis B Chronic Infection	41	41	41	30	35	44	0.0%	17.1%	6.60	1	48
Hepatitis C Acute	3	3	3	1	1	2	0.0%	200.0%	0.48	13	25
Hepatitis C, Chronic Infection	428	425	420	420	460	547	0.7%	(7.0%)	68.91	1	50
Influenza	99	80	68	No Data	816	No Data	23.8%	(87.9%)	15.94	40	50
Legionellosis	5	5	5	6	8	10	0.0%	(37.5%)	0.80	31	46
Listeriosis	1	1	1	1	2	3	0.0%	(50.0%)	0.16	39	39
Malaria	1	1	1	1	1	1	0.0%	0.0%	0.16	29	29
Meningococcal Disease	1	1	1	1	1	2	0.0%	0.0%	0.16	6	6
Mumps	145	141	118	1	1	31	2.8%	14400%	23.34	16	50
Pertussis	21	20	20	27	28	41	5.0%	(25.0%)	3.38	2	50
Rabies Animal	5	5	5	2	3	3	0.0%	66.7%	0.80	19	35
Rabies Post Exposure Prophylaxis	84	84	83	No Data	76	No Data	0.0%	11.1%	13.52	2	49
Rocky Mountain Spotted Fever	124	124	124	46	46	48	0.0%	169.6%	19.96	7	45
Salmonellosis	118	118	115	80	95	103	0.0%	24.2%	19.00	1	49
Shiga Toxin + (Non E. Coli/Unknown Organism)	1	1	1	2	2	2	0.0%	(50.0%)	0.16	43	43
Shigellosis	155	154	151	4	11	49	0.6%	1309.1%	24.95	1	50
Staph Aureus VISA	1	1	1	1	1	5	0.0%	0.0%	0.16	16	16
Strep Disease, Group A Invasive	13	13	13	10	12	14	0.0%	8.3%	2.09	3	38
Strep Pneumoniae, <5 Years, Invasive	1	1	1	2	2	3	0.0%	(50.0%)	0.16	7	7
Strep Pneumoniae, Drug-Resistant	17	16	16	3	4	4	6.3%	325.0%	2.74	7	50
Tb Infection	225	225	219	256	267	332	0.0%	(15.7%)	36.22	1	49
Toxic Shock (Strep) Syndrome	2	2	2	1	1	1	0.0%	100.0%	0.32	10	11
Tuberculosis	11	11	11	5	6	10	0.0%	83.3%	1.77	7	45
Tularemia	9	9	8	2	3	6	0.0%	200.0%	1.45	18	49

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
Central District

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	First Week Reported ²	Last Week Reported
Varicella (Chickenpox)	31	31	30	No Data	65	No Data	0.0%	(52.2%)	4.99	1	49
Yersiniosis	2	2	2	1	2	3	0.0%	0.0%	0.32	23	41

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
Central District

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
Animal Bites	Old	1	1	10	Above Median	Above Median	Increase	Above Normal
Brucellosis	Old	16	16	0	Below Median	Below Median	Flat	Below Normal
Campylobacteriosis	Old	1	1	3	Above Maximum	Above Maximum	Increase	Very Elevated
Coccidioidomycosis	Old	13	13	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Creutzfeldt-Jakob Disease (CJD)	Old	9	9	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Cryptosporidiosis	Old	2	2	1	Above Maximum	Above Maximum	Increase	Very Elevated
Cyclosporiasis	Old	29	29	0	Above Maximum	Above Maximum	Flat	Very Elevated
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	14	14	0	Above Median	Above Median	Flat	Above Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	34	34	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	3	3	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Haemophilus Influenzae, Invasive	Old	6	6	0	Above Median	Above 3 rd Quartile	Flat	Above Normal
Hemolytic Uremic Syndrome	Old	30	30	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Hepatitis B (Pregnancy) Prenatal	Old	4	4	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	10	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	35	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	31	31	0	Below Median	Below Median	Flat	Below Normal
Listeriosis	Old	39	39	0	Below Median	Below Median	Flat	Below Normal
Malaria	Old	29	29	0	Below Median	Below Median	Flat	Below Normal
Meningococcal Disease	Old	6	6	0	Below Median	Below Median	Flat	Below Normal
Mumps	Old	16	16	57	Above Maximum	Above Maximum	Increase	Very Elevated
Pertussis	Old	2	2	1	Below Median	Below Median	Increase	Below Normal
Rabies Animal	Old	19	19	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Rabies Post Exposure Prophylaxis	Old	2	2	0	Above Median	Above Median	Flat	Above Normal
Rocky Mountain Spotted Fever	Old	7	7	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
 Central District

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
Salmonellosis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Shiga Toxin + (Non E. Coli/Unknown Organism)	Old	43	43	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Staph Aureus VISA	Old	16	16	0	Below Median	Below Median	Flat	Below Normal
Strep Disease, Group A Invasive	Old	3	3	0	Above Median	Above 3 rd Quartile	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	0	Above Maximum	Above Maximum	Flat	Very Elevated
Tb Infection	Old	1	1	15	Below Median	Below Median	Increase	Below Normal
Toxic Shock (Strep) Syndrome	Old	10	10	0	Above Maximum	Above Maximum	Flat	Very Elevated
Tuberculosis	Old	7	7	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Tularemia	Old	18	18	0	Above Maximum	Above Maximum	Flat	Very Elevated
Varicella (Chickenpox)	Old	1	1	1	Below Median	Below Median	Increase	Below Normal
Yersiniosis	Old	23	23	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
Change in Count by District and State Total

Disease or Condition	Central		Eastern		Northwest		Southeast		Southwest		State	
	Change in Count Current Report ¹	Change in Count Last Report ²	Change in Count Current Report ¹	Change in Count Last Report ²	Change in Count Current Report ¹	Change in Count Last Report ²	Change in Count Current Report ¹	Change in Count Last Report ²	Change in Count Current Report ¹	Change in Count Last Report ²	Change in Count Current Report ¹	Change in Count Last Report ²
Animal Bites	2	10	34	44	12	17	8	20	10	31	66	122
Brucellosis									0	1	0	1
Campylobacteriosis	1	3	4	4	1	5	1	3	4	7	11	22
Cryptosporidiosis	0	1			0	2	0	3	0	4	0	10
E Coli Shiga Toxin Positive			1	4	2	1			1	1	4	6
Ehrlichia chaffeensis							0	3			0	3
Giardiasis			3	3	1	1	0	4	0	2	4	10
Haemophilus Influenzae, Invasive			1	2					0	1	1	3
Hepatitis B (Pregnancy) Prenatal			0	-1	3	3					3	2
Hepatitis B Chronic Infection			2	2			1	1			3	3
Hepatitis C Acute			0	-1	0	1						
Hepatitis C, Chronic Infection	3	10	12	50	3	23	0	4	0	16	18	103
Influenza	19	35	20	28	50	70	10	15	14	36	113	184
Legionellosis					0	1	0	1	0	1	0	3
Lyme					0	1			0	1	0	2
Malaria					1	1					1	1
Mumps	4	57	2	3			0	1	6	8	12	69
Pertussis	1	1	2	11	5	2	0	2	2	5	10	21
Rabies Post Exposure Prophylaxis					1	1	2	14	1	2	4	17
Rocky Mountain Spotted Fever							0	6			0	6
Salmonellosis			11	11	1	1	2	3	4	4	18	19
Shiga Toxin + (Non E. Coli/Unknown Organism)							0	-1			1	-1
Shigellosis	1	1	0	1	1	1	2	3			4	6
Staph Aureus VISA			0	-1							0	-1
Strep Disease, Group A Invasive									1	1	1	1
Strep Pneumoniae, Drug-Resistant			3	6	1	2	1	3	0	2	6	13
Tb Infection	0	15	15	34	4	13	0	2	2	12	21	83
Tuberculosis			1	2	0	-1					1	1
Tularemia									2	2	2	2
Varicella (Chickenpox)	0	1					1	1			1	2

¹ Current Report was run on 12/20/2016 for Week 50, 2016

² Last Report was run on 12/13/2016 for Week 49, 2016

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report for Week 50, 2016
First Week Reported by District and State Total

	Central	Eastern	Northwest	Southeast	Southwest	State
Disease or Condition	1 st Week Reported ¹					
Anaplasma phagocytophilum		5	38		24	5
Animal Bites	1	1	1	1	1	1
Brucellosis	16				49	16
Campylobacteriosis	1	1	1	1	1	1
Coccidioidomycosis	13	15	4		12	4
Creutzfeldt-Jakob Disease (CJD)	9	4	41		40	4
Cryptosporidiosis	2	4	1	6	1	1
Cyclosporiasis	29	8	26	28	31	8
Dengue Fever		11	23		6	6
E Coli Shiga Toxin Positive	2	1	8	3	2	1
E. Coli O157 H7	17	2	1	24	6	1
Ehrlichia chaffeensis	14	20	19	18	1	1
Ehrlichia ewingii		20		20	22	20
Ehrlichiosis or Anaplasmosis, Undetermined	34	27	26		18	18
Giardiasis	3	1	3	1	3	1
Haemophilus Influenzae, Invasive	6	1	1	7	1	1
Hansen's Disease (Leprosy)			10			10
Hemolytic Uremic Syndrome	30		6		5	5
Hepatitis A Acute		7	3	6	8	3
Hepatitis B (Pregnancy) Prenatal	4	2	3	18	2	2
Hepatitis B Acute	43	3	16	1	1	1
Hepatitis B Chronic Infection	1	1	1	2	2	1
Hepatitis C Acute	13	27	4	1	3	1
Hepatitis C, Chronic Infection	1	1	1	1	1	1
Hepatitis D Acute		17				17
Influenza	40	40	40	40	40	40
Legionellosis	31	2	1	21	8	1
Leptospirosis					10	10
Listeriosis	39	1			40	1
Lyme		23	30		14	14
Malaria	29	20	8			8
Meningococcal Disease	6	11	10	25		6
Mumps	16	9	15	49	38	9
Pertussis	2	2	2	2	4	2
Q Fever,Acute					28	28
Rabies Animal	19	5	20	6	19	5
Rabies Post Exposure Prophylaxis	2	1	1	3	2	1
Rocky Mountain Spotted Fever	7	8	10	6	11	6
Salmonellosis	1	1	1	2	1	1
Shiga Toxin + (Non E. Coli/Unknown Organism)	43	3	10	29		3
Shigellosis	1	2	1	1	2	1
Staph Aureus VISA	16	1			9	1
Strep Disease, Group A Invasive	3	1	1	10	1	1
Strep Pneumoniae, <5 Years, Invasive	7	9	12			7

¹ First Week Reported in 2016

Missouri Department of Health and Senior Services (DHSS)
 Weekly Communicable Disease Report for Week 50, 2016
 First Week Reported by District and State Total

	<i>Central</i>	<i>Eastern</i>	<i>Northwest</i>	<i>Southeast</i>	<i>Southwest</i>	<i>State</i>
<i>Disease or Condition</i>	<i>1st Week Reported¹</i>					
Strep Pneumoniae, Drug-Resistant	7	1	1	2	1	1
Tb Infection	1	1	1	1	1	1
Toxic Shock (Strep) Syndrome	10	15			36	10
Tuberculosis	7	4	2	6	4	2
Tularemia	18	23	5	28	19	5
Typhoid Fever		10	37			10
Varicella (Chickenpox)	1	2	1	3	1	1
Vibriosis		10	23	19	1	1
West Nile Fever		39		34		34
West Nile Viral Encephalitis/Meningitis		35	37		35	35
Yersiniosis	23	1	8	4	8	1

¹ First Week Reported in 2016

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>Eastern</i>	<i>Northwest</i>	<i>Southwest</i>	<i>State</i>	<i>Central</i>	<i>Southeast</i>
<i>Anaplasma phagocytophilum</i>	0.23	0.07	0.44	0.18		
<i>Animal Bites</i>	111.23	117.26	161.82	126.30	149.24	123.18
<i>Brucellosis</i>			0.11	0.05	0.32	
<i>Campylobacteriosis</i>	10.34	24.40	45.30	23.11	20.93	37.00
<i>Coccidioidomycosis</i>	0.37	0.48	0.11	0.34	0.48	
<i>Creutzfeldt-Jakob Disease (CJD)</i>	0.28	0.07	0.11	0.18	0.32	
<i>Cryptosporidiosis</i>	3.46	6.78	13.94	7.20	10.46	8.05
<i>Cyclosporiasis</i>	0.47	0.55	0.11	0.39	0.32	0.22
<i>Dengue Fever</i>	0.28	0.21	0.33	0.21		
<i>E Coli Shiga Toxin Positive</i>	2.34	2.19	6.86	3.38	4.83	3.05
<i>E. Coli O157 H7</i>	1.26	1.99	2.29	2.36	7.08	2.39
<i>Ehrlichia chaffeensis</i>	1.68	1.99	7.40	4.07	6.44	11.97
<i>Ehrlichia ewingii</i>	0.19		0.44	0.16		0.22
<i>Ehrlichiosis or Anaplasmosis, Undetermined</i>	0.14	0.07	0.44	0.16	0.16	
<i>Giardiasis</i>	5.24	5.21	5.99	5.77	8.05	6.53
<i>Haemophilus Influenzae, Invasive</i>	2.81	1.78	3.16	2.39	1.29	2.39
<i>Hansen's Disease (Leprosy)</i>		0.07		0.02		
<i>Hemolytic Uremic Syndrome</i>		0.34	0.76	0.32	0.97	
<i>Hepatitis A Acute</i>	0.28	0.34	0.22	0.27		0.44
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.73	2.33	1.96	1.75	1.13	0.44
<i>Hepatitis B Acute</i>	0.75	0.27	1.31	0.66	0.32	0.65
<i>Hepatitis B Chronic Infection</i>	7.91	7.40	6.21	7.17	6.60	5.66
<i>Hepatitis C Acute</i>	0.28	0.34	0.33	0.43	0.48	1.52
<i>Hepatitis C, Chronic Infection</i>	88.25	69.29	107.04	84.48	68.91	91.19
<i>Hepatitis D Acute</i>	0.05			0.02		
<i>Influenza</i>	6.60	18.43	17.53	13.58	15.94	19.59
<i>Legionellosis</i>	3.46	2.81	3.16	2.72	0.80	0.65
<i>Leptospirosis</i>			0.11	0.02		
<i>Listeriosis</i>	0.05		0.11	0.05	0.16	
<i>Lyme</i>	0.19	0.21	0.76	0.25		
<i>Malaria</i>	0.33	0.62		0.30	0.16	
<i>Meningococcal Disease</i>	0.05	0.07		0.07	0.16	0.22
<i>Mumps</i>	0.33	0.34	0.98	2.98	23.34	0.22
<i>Pertussis</i>	6.13	7.20	3.48	5.54	3.38	4.57
<i>Q Fever, Acute</i>			0.22	0.04		
<i>Rabies Animal</i>	0.19	0.48	0.33	0.46	0.80	1.52
<i>Rabies Post Exposure Prophylaxis</i>	4.54	7.88	12.52	9.20	13.52	22.63
<i>Rocky Mountain Spotted Fever</i>	1.82	3.29	5.77	6.38	19.96	20.24
<i>Salmonellosis</i>	15.77	16.04	17.97	17.69	19.00	29.60
<i>Shiga Toxin + (Non E. Coli/Unknown Organism)</i>	0.28	0.21		0.20	0.16	0.22
<i>Shigellosis</i>	8.28	22.00	12.20	14.24	24.95	6.96
<i>Staph Aureus VISA</i>	0.98		0.22	0.43	0.16	
<i>Strep Disease, Group A Invasive</i>	2.48	2.54	1.63	2.16	2.09	0.65
<i>Strep Pneumoniae, <5 Years, Invasive</i>	0.09	0.21		0.11	0.16	

(Continued)

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>Eastern</i>	<i>Northwest</i>	<i>Southwest</i>	<i>State</i>	<i>Central</i>	<i>Southeast</i>
<i>Strep Pneumoniae, Drug-Resistant</i>	3.93	5.35	6.32	4.63	2.74	4.79
<i>Tb Infection</i>	49.55	61.27	39.53	49.47	36.22	23.29
<i>Toxic Shock (Strep) Syndrome</i>	0.09		0.22	0.11	0.32	
<i>Tuberculosis</i>	1.64	2.06	0.87	1.70	1.77	1.52
<i>Tularemia</i>	0.09	0.48	2.07	0.77	1.45	1.31
<i>Typhoid Fever</i>	0.14	0.07		0.07		
<i>Varicella (Chickenpox)</i>	0.61	2.67	6.10	2.65	4.99	1.96
<i>Vibriosis</i>	0.14	0.07	0.11	0.11		0.22
<i>West Nile Fever</i>	0.05			0.04		0.22
<i>West Nile Viral Encephalitis/Meningitis</i>	0.19	0.21	0.11	0.14		
<i>Yersiniosis</i>	0.70	0.41	0.11	0.46	0.32	0.44

¹ Rates are Year-to-Date Counts per 100,000 population for Week 50, 2016

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Year-to-Date Relative Rates for Week 50, 2016^{1,2,3}

Disease or Condition	Eastern	Northwest	Southwest	Central	Southeast
<i>Anaplasma phagocytophilum</i>	1.31	0.38	2.44		
Animal Bites	0.88	0.93	1.28	1.18	0.98
Brucellosis			2.03	6.01	
Campylobacteriosis	0.45	1.06	1.96	0.91	1.60
Coccidioidomycosis	1.10	1.41	0.32	1.42	
Creutzfeldt-Jakob Disease (CJD)	1.57	0.38	0.61	1.80	
Cryptosporidiosis	0.48	0.94	1.94	1.45	1.12
Cyclosporiasis	1.19	1.39	0.28	0.82	0.55
Dengue Fever	1.31	0.96	1.52		
E Coli Shiga Toxin Positive	0.69	0.65	2.03	1.43	0.90
E. Coli O157 H7	0.54	0.84	0.97	3.00	1.01
Ehrlichia chaffeensis	0.41	0.49	1.82	1.58	2.94
Ehrlichia ewingii	1.16		2.71		1.35
Ehrlichiosis or Anaplasmosis, Undetermined	0.87	0.43	2.71	1.00	
Giardiasis	0.91	0.90	1.04	1.39	1.13
Haemophilus Influenzae, Invasive	1.17	0.74	1.32	0.54	1.00
Hansen's Disease (Leprosy)		3.83			
Hemolytic Uremic Syndrome		1.07	2.37	3.00	
Hepatitis A Acute	1.05	1.28	0.81		1.62
Hepatitis B (Pregnancy) Prenatal	0.99	1.33	1.12	0.64	0.25
Hepatitis B Acute	1.13	0.41	1.98	0.49	0.99
Hepatitis B Chronic Infection	1.10	1.03	0.87	0.92	0.79
Hepatitis C Acute	0.65	0.80	0.76	1.13	3.55
Hepatitis C, Chronic Infection	1.04	0.82	1.27	0.82	1.08
Hepatitis D Acute	2.62				
Influenza	0.49	1.36	1.29	1.17	1.44
Legionellosis	1.27	1.03	1.16	0.30	0.24
Leptospirosis			6.09		
Listeriosis	0.87		2.03	3.00	
Lyme	0.75	0.82	3.05		
Malaria	1.08	2.03		0.53	
Meningococcal Disease	0.65	0.96		2.25	3.04
Mumps	0.11	0.11	0.33	7.82	0.07
Pertussis	1.11	1.30	0.63	0.61	0.82
Q Fever, Acute			6.09		
Rabies Animal	0.40	1.03	0.70	1.73	3.28
Rabies Post Exposure Prophylaxis	0.49	0.86	1.36	1.47	2.46
Rocky Mountain Spotted Fever	0.29	0.52	0.90	3.13	3.17
Salmonellosis	0.89	0.91	1.02	1.07	1.67
Shiga Toxin + (Non E. Coli/Unknown Organism)	1.43	1.05		0.82	1.11
Shigellosis	0.58	1.54	0.86	1.75	0.49

(Continued)

¹ The relative rate is computed as the county or district rate divided by the overall state rate.

² Relative rate between 2.0 and 3.0

³ Relative rate above 3.0

Missouri Department of Health and Senior Services (DHSS)
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Year-to-Date Relative Rates for Week 50, 2016^{1,2,3}

<i>Disease or Condition</i>	<i>Eastern</i>	<i>Northwest</i>	<i>Southwest</i>	<i>Central</i>	<i>Southeast</i>
<i>Staph Aureus VISA</i>	2.29		0.51	0.38	
<i>Strep Disease, Group A Invasive</i>	1.15	1.17	0.76	0.97	0.30
<i>Strep Pneumoniae, <5 Years, Invasive</i>	0.87	1.92		1.50	
<i>Strep Pneumoniae, Drug-Resistant</i>	0.85	1.15	1.36	0.59	1.03
<i>Tb Infection</i>	1.00	1.24	0.80	0.73	0.47
<i>Toxic Shock (Strep) Syndrome</i>	0.87		2.03	3.00	
<i>Tuberculosis</i>	0.96	1.21	0.51	1.04	0.90
<i>Tularemia</i>	0.12	0.62	2.69	1.89	1.70
<i>Typhoid Fever</i>	1.96	0.96			
<i>Varicella (Chickenpox)</i>	0.23	1.01	2.31	1.89	0.74
<i>Vibriosis</i>	1.31	0.64	1.02		2.03
<i>West Nile Fever</i>	1.31				6.09
<i>West Nile Viral Encephalitis/Meningitis</i>	1.31	1.44	0.76		
<i>Yersiniosis</i>	1.51	0.88	0.23	0.69	0.94

¹ The relative rate is computed as the county or district rate divided by the overall state rate.

² Relative rate between 2.0 and 3.0

³ Relative rate above 3.0

Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Comparison of 4-week Count Mean for Week 50, 2016 with Historical Limits
Central

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		1.0	2.6	1.8	2.7	2.3	2.7
Coccidioidomycosis		0.0	0.3	0.0	0.3	0.0	0.3
Creutzfeldt-Jakob Disease (CJD)		0.0	0.1	0.0	0.1	0.0	0.1
Cryptosporidiosis		1.3	1.0	1.5	1.2	1.5	1.4
E Coli Shiga Toxin Positive		0.3	0.4	0.3	0.3	0.3	0.2
E. Coli O157 H7		0.0	0.6	0.3	0.6	0.3	0.7
Ehrlichia chaffeensis		0.0	0.6	0.0	0.9	0.0	1.1
Giardiasis		0.0	2.6	0.3	2.8	0.3	2.9
Haemophilus Influenzae, Invasive		0.5	0.3	0.5	0.3	0.5	0.3
Hemolytic Uremic Syndrome		0.0	0.3	0.0	0.3	0.0	0.3
Hepatitis B (Pregnancy) Prenatal		0.0	0.8	0.0	0.7	0.0	0.7
Hepatitis B Acute		0.3	0.2	0.3	0.2	0.3	0.2
Hepatitis B Chronic Infection		0.3	1.4	0.8	1.4	1.0	1.5
Hepatitis C, Chronic Infection		3.3	14.2	3.5	14.1	4.8	14.0
Legionellosis		0.0	0.4	0.5	0.3	0.5	0.3
Meningococcal Disease		0.0	0.2	0.0	0.2	0.0	0.3
Pertussis		0.8	3.4	1.0	3.5	1.8	3.4
Rabies Animal		0.0	0.0	0.0	0.1	0.0	0.1
Rocky Mountain Spotted Fever		0.0	1.3	0.0	1.6	0.5	2.1
Salmonellosis		1.5	2.4	2.3	2.5	2.3	2.6
Shigellosis		1.5	5.1	2.5	4.9	2.8	4.8
Strep Disease, Group A Invasive		0.0	0.5	0.0	0.5	0.0	0.5
Strep Pneumoniae, <5 Years, Invasive		0.0	0.1	0.0	0.1	0.0	0.2
Strep Pneumoniae, Drug-Resistant		0.3	0.5	0.3	0.4	0.3	0.3
Tuberculosis		0.0	0.4	0.0	0.4	0.3	0.5
Tularemia		0.3	0.3	0.3	0.3	0.0	0.3
Yersiniosis		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 subsequent or leading weeks for the past five years.

Central District

