

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

Missouri Department of Health and Senior Services (DHSS)

Weekly Communicable Disease Report

for the

Eastern 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
Eastern District

Disease or Condition	Week 50 YTD ¹	Week 49 YTD ¹	Week 48 YTD ¹	Five Year st 1 st Quartile	Five Year Median	Five Year rd 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
Anaplasma phagocytophilum	5	5	5	3	4	4	0.0%	25.0%	0.23	5	32
Animal Bites	2,377	2,343	2,310	No Data	2,250	No Data	1.5%	5.7%	111.23	1	51
Campylobacteriosis	221	217	214	215	231	238	1.8%	(4.3%)	10.34	1	50
Coccidioidomycosis	8	8	8	3	4	6	0.0%	100.0%	0.37	15	44
Creutzfeldt-Jakob Disease (CJD)	6	6	6	2	4	4	0.0%	50.0%	0.28	4	36
Cryptosporidiosis	74	74	73	46	48	62	0.0%	54.2%	3.46	4	49
Cyclosporiasis	10	10	10	1	1	1	0.0%	900.0%	0.47	8	38
Dengue Fever	6	6	6	1	2	2	0.0%	200.0%	0.28	11	37
E Coli Shiga Toxin Positive	50	49	45	49	52	53	2.0%	(3.8%)	2.34	1	50
E. Coli O157 H7	27	27	26	15	39	50	0.0%	(30.8%)	1.26	2	49
Ehrlichia chaffeensis	36	36	36	50	57	63	0.0%	(36.8%)	1.68	20	42
Ehrlichia ewingii	4	4	4	1	3	6	0.0%	33.3%	0.19	20	34
Ehrlichiosis or Anaplasmosis, Undetermined	3	3	3	No Data	3	No Data	0.0%	15.4%	0.14	27	30
Giardiasis	112	109	107	76	92	114	2.8%	21.7%	5.24	1	50
Haemophilus Influenzae, Invasive	60	59	59	30	35	37	1.7%	71.4%	2.81	1	50
Hepatitis A Acute	6	6	6	3	3	6	0.0%	100.0%	0.28	7	46
Hepatitis B (Pregnancy) Prenatal	37	37	37	55	57	63	0.0%	(35.1%)	1.73	2	47
Hepatitis B Acute	16	16	16	10	12	14	0.0%	33.3%	0.75	3	39
Hepatitis B Chronic Infection	169	167	166	152	176	176	1.2%	(4.0%)	7.91	1	50
Hepatitis C Acute	6	6	6	1	2	2	0.0%	300.0%	0.28	27	46
Hepatitis C, Chronic Infection	1,886	1,874	1,852	1,898	1,922	2,348	0.6%	(1.9%)	88.25	1	50
Hepatitis D Acute	1	1	1	1	1	1	0.0%	0.0%	0.05	17	17
Influenza	141	121	94	No Data	1,577	No Data	16.5%	(91.1%)	6.60	40	50
Legionellosis	74	74	74	28	32	35	0.0%	131.3%	3.46	2	46
Listeriosis	1	1	1	2	4	5	0.0%	(75.0%)	0.05	1	1
Lyme	4	4	4	2	2	3	0.0%	100.0%	0.19	23	35
Malaria	7	7	7	8	8	10	0.0%	(12.5%)	0.33	20	45
Meningococcal Disease	1	1	1	3	3	4	0.0%	(66.7%)	0.05	11	11
Mumps	7	5	2	2	2	4	40.0%	250.0%	0.33	9	50
Pertussis	131	129	120	250	264	295	1.6%	(50.4%)	6.13	2	50
Rabies Animal	4	4	4	8	8	9	0.0%	(50.0%)	0.19	5	42
Rabies Post Exposure Prophylaxis	97	97	96	No Data	121	No Data	0.0%	(20.1%)	4.54	1	49
Rocky Mountain Spotted Fever	39	39	39	42	50	51	0.0%	(22.0%)	1.82	8	43
Salmonellosis	337	326	324	295	321	335	3.4%	5.0%	15.77	1	50
Shiga Toxin + (Non E. Coli/Unknown Organism)	6	5	5	4	5	6	20.0%	20.0%	0.28	3	50
Shigellosis	177	177	174	27	56	340	0.0%	216.1%	8.28	2	49
Staph Aureus VISA	21	21	21	29	46	110	0.0%	(54.3%)	0.98	1	48
Strep Disease, Group A Invasive	53	53	53	49	52	66	0.0%	1.9%	2.48	1	46
Strep Pneumoniae, <5 Years, Invasive	2	2	2	5	10	10	0.0%	(80.0%)	0.09	9	25
Strep Pneumoniae, Drug-Resistant	84	81	78	23	25	31	3.7%	236.0%	3.93	1	50

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
Eastern 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
Tb Infection	1,059	1,044	1,016	1,139	1,191	1,288	1.4%	(11.1%)	49.55	1	50
Toxic Shock (Strep) Syndrome	2	2	2	No Data	0	No Data	0.0%	0.0%	0.09	15	22
Tuberculosis	35	34	34	37	41	45	2.9%	(14.6%)	1.64	4	50
Tularemia	2	2	2	3	3	4	0.0%	(33.3%)	0.09	23	26
Typhoid Fever	3	3	3	2	3	3	0.0%	0.0%	0.14	10	37
Varicella (Chickenpox)	13	13	13	No Data	28	No Data	0.0%	(53.9%)	0.61	2	46
Vibriosis	3	3	3	2	3	4	0.0%	0.0%	0.14	10	40
West Nile Fever	1	1	1	2	2	3	0.0%	(50.0%)	0.05	39	39
West Nile Viral Encephalitis/Meningitis	4	4	4	6	8	11	0.0%	(50.0%)	0.19	35	40
Yersiniosis	15	15	14	4	5	7	0.0%	200.0%	0.70	1	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 for Week 50, 2016
Disease or Condition Analysis
Relative to Last Report run on 12/13/2016 for Week 49, 2016
Eastern 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
Anaplasma phagocytophilum	Old	5	5	0	Above Maximum	Above Maximum	Flat	Very Elevated
Animal Bites	Old	1	1	44	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	1	1	4	Below Median	Below Median	Increase	Below Normal
Coccidioidomycosis	Old	15	15	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Creutzfeldt-Jakob Disease (CJD)	Old	4	4	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Cryptosporidiosis	Old	4	4	0	Above Maximum	Above Maximum	Flat	Very Elevated
Cyclosporiasis	Old	8	8	0	Above Maximum	Above Maximum	Flat	Very Elevated
Dengue Fever	Old	11	11	0	Above Maximum	Above Maximum	Flat	Very Elevated
E Coli Shiga Toxin Positive	Old	1	1	4	Below Median	Below Median	Increase	Below Normal
E. Coli O157 H7	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia ewingii	Old	20	20	0	Above Median	Above Median	Flat	Above Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	27	27	0	Above Median	Above Median	Flat	Above Normal
Giardiasis	Old	1	1	3	Above Median	Above Median	Increase	Above Normal
Haemophilus Influenzae, Invasive	Old	1	1	2	Above Maximum	Above Maximum	Increase	Very Elevated
Hepatitis A Acute	Old	7	7	0	Above Median	Above Median	Flat	Above Normal
Hepatitis B (Pregnancy) Prenatal	Old	2	2	-1	Below Median	Below Median	Decrease	Below Normal
Hepatitis B Acute	Old	3	3	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Hepatitis B Chronic Infection	Old	1	1	2	Below Median	Below Median	Increase	Below Normal
Hepatitis C Acute	Old	27	27	-1	Above Maximum	Above Maximum	Decrease	Very Elevated
Hepatitis C, Chronic Infection	Old	1	1	50	Below Median	Below Median	Increase	Below Normal
Hepatitis D Acute	Old	17	17	0	Below Median	Below Median	Flat	Below Normal
Influenza	Old	40	40	28	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	2	2	0	Above Maximum	Above Maximum	Flat	Very Elevated
Listeriosis	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Lyme	Old	23	23	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Malaria	Old	20	20	0	Below Median	Below Median	Flat	Below Normal
Meningococcal Disease	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Mumps	Old	9	9	3	Above Maximum	Above 3 rd Quartile	Increase	Very Elevated
Pertussis	Old	2	2	11	Below Median	Below Median	Increase	Below Normal
Rabies Animal	Old	5	5	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
 Disease or Condition Analysis
 Relative to Last Report run on 12/13/2016 for Week 49, 2016
 Eastern 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
Rabies Post Exposure Prophylaxis	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Rocky Mountain Spotted Fever	Old	8	8	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	11	Above 3 rd Quartile	Above Median	Increase	Elevated
Shiga Toxin + (Non E. Coli/Unknown Organism)	Old	3	3	0	Above Median	Above Median	Flat	Above Normal
Shigellosis	Old	2	2	1	Above Median	Above Median	Increase	Above Normal
Staph Aureus VISA	Old	1	1	-1	Below Median	Below Median	Decrease	Below Normal
Strep Disease, Group A Invasive	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Strep Pneumoniae, <5 Years, Invasive	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	1	1	6	Above Maximum	Above Maximum	Increase	Very Elevated
Tb Infection	Old	1	1	34	Below Median	Below Median	Increase	Below Normal
Toxic Shock (Strep) Syndrome	Old	15	15	0	Above Median	Above Median	Flat	Above Normal
Tuberculosis	Old	4	4	2	Below Median	Below Median	Increase	Below Normal
Tularemia	Old	23	23	0	Below Median	Below Median	Flat	Below Normal
Typhoid Fever	Old	10	10	0	Below Median	Below Median	Flat	Below Normal
Varicella (Chickenpox)	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Vibriosis	Old	10	10	0	Below Median	Below Median	Flat	Below Normal
West Nile Fever	Old	39	39	0	Below Median	Below Median	Flat	Below Normal
West Nile Viral Encephalitis/Meningitis	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Yersiniosis	Old	1	1	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

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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)
Weekly Communicable Disease Report

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
Eastern

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		3.8	6.3	3.5	6.6	3.0	6.6
Coccidioidomycosis		0.0	0.2	0.0	0.2	0.0	0.2
Cryptosporidiosis		0.5	3.2	1.0	3.7	0.8	4.3
Dengue Fever		0.0	0.3	0.0	0.2	0.0	0.3
E Coli Shiga Toxin Positive		1.3	1.8	1.5	1.8	0.5	1.9
E. Coli O157 H7		1.8	5.5	2.0	5.5	1.8	5.5
Ehrlichia chaffeensis		0.0	0.9	0.0	1.1	0.0	1.2
Giardiasis		4.0	5.7	4.0	6.0	3.5	6.3
Haemophilus Influenzae, Invasive		0.5	1.7	0.8	1.6	1.0	1.5
Hepatitis A Acute		0.0	0.7	0.3	0.7	0.5	0.7
Hepatitis B (Pregnancy) Prenatal		0.3	1.8	0.8	1.9	1.0	1.9
Hepatitis B Acute		0.0	0.7	0.0	0.7	0.0	0.7
Hepatitis B Chronic Infection		1.3	4.7	1.8	4.6	2.5	4.4
Hepatitis C, Chronic Infection		13.8	51.6	17.5	51.9	20.0	53.1
Legionellosis		0.0	1.3	0.3	1.4	0.3	1.5
Listeriosis		0.0	0.3	0.0	0.4	0.0	0.5
Lyme		0.0	0.2	0.0	0.2	0.0	0.2
Malaria		0.0	0.4	0.0	0.4	0.3	0.5
Meningococcal Disease		0.0	0.5	0.0	0.5	0.0	0.5
Mumps		1.3	0.2	0.8	0.2	0.0	0.2
Pertussis		6.5	33.2	8.8	33.0	8.3	32.7
Rabies Animal		0.0	0.5	0.0	0.6	0.0	0.8
Rocky Mountain Spotted Fever		0.0	1.0	0.0	1.2	0.0	1.4
Salmonellosis		5.5	7.5	4.0	7.7	4.3	8.0
Shigellosis		2.5	33.1	5.0	33.3	5.0	32.8
Staph Aureus VISA		0.3	0.3	0.3	0.3	0.3	0.3
Strep Disease, Group A Invasive		0.0	2.3	0.3	2.0	0.3	1.9
Strep Pneumoniae, <5 Years, Invasive		0.0	0.8	0.0	0.9	0.0	0.9
Strep Pneumoniae, Drug-Resistant		4.3	1.7	4.3	1.6	4.5	1.6
Tuberculosis		0.3	1.8	0.0	1.9	0.3	1.9
Tularemia		0.0	0.2	0.0	0.2	0.0	0.2
Typhoid Fever		0.0	0.3	0.0	0.2	0.0	0.2
Vibriosis		0.0	0.2	0.0	0.2	0.0	0.2
West Nile Fever		0.0	0.1	0.0	0.2	0.0	0.2
West Nile Viral Encephalitis/Meningitis		0.0	0.5	0.0	0.7	0.0	1.0
Yersiniosis		0.3	0.6	0.3	0.6	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 subsequent or leading weeks for the past five years.

Eastern District

