

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

Missouri Department of Health and Senior Services (DHSS)

**Weekly Communicable Disease Report**

for the

**Northwest District**

**Report for Week 51 of 2016**

**Report Run Date = December 28, 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 51, 2016**  
**Northwest District**

Disease or Condition	Week 51 YTD <sup>1</sup>	Week 50 YTD <sup>1</sup>	Week 49 YTD <sup>1</sup>	Five Year 1 <sup>st</sup> Quartile	Five Year Median	Five Year 3 <sup>rd</sup> Quartile	Change from Week 50 to Week 51	Change from Week 51 to 5-Year Median	Rate per 100,000 Week 51	First Week Reported <sup>2</sup>	Last Week Reported
Anaplasma phagocytophilum	1	1	1	3	6	6	0.0%	( 83.3%)	0.07	38	38
Animal Bites	1,731	1,727	1,713	No Data	1,231	No Data	0.2%	40.6%	118.63	1	51
Campylobacteriosis	362	358	356	90	91	265	1.1%	297.8%	24.81	1	51
Coccidioidomycosis	7	7	7	5	5	6	0.0%	40.0%	0.48	4	40
Creutzfeldt-Jakob Disease (CJD)	1	1	1	2	3	3	0.0%	( 66.7%)	0.07	41	41
Cryptosporidiosis	99	99	99	65	80	187	0.0%	23.8%	6.78	1	48
Cyclosporiasis	8	8	8	2	3	3	0.0%	220.0%	0.55	26	37
Dengue Fever	3	3	3	1	2	3	0.0%	100.0%	0.21	23	37
E Coli Shiga Toxin Positive	34	34	30	25	29	34	0.0%	17.2%	2.33	8	50
E. Coli O157 H7	30	30	30	14	15	20	0.0%	100.0%	2.06	1	44
Ehrlichia chaffeensis	30	30	30	32	35	52	0.0%	( 14.3%)	2.06	19	40
Ehrlichiosis or Anaplasmosis, Undetermined	1	1	1	No Data	3	No Data	0.0%	( 61.5%)	0.07	26	26
Giardiasis	78	78	77	46	70	77	0.0%	11.4%	5.35	3	50
Haemophilus Influenzae, Invasive	27	27	27	20	20	29	0.0%	35.0%	1.85	1	45
Hansen's Disease (Leprosy)	1	1	1	1	1	1	0.0%	0.0%	0.07	10	10
Hemolytic Uremic Syndrome	5	5	5	1	1	2	0.0%	400.0%	0.34	6	40
Hepatitis A Acute	5	5	5	5	7	9	0.0%	( 23.1%)	0.34	3	35
Hepatitis B (Pregnancy) Prenatal	36	35	31	48	50	50	2.9%	( 28.0%)	2.47	3	51
Hepatitis B Acute	5	4	4	9	10	11	25.0%	( 50.0%)	0.34	16	51
Hepatitis B Chronic Infection	110	108	108	74	109	121	1.9%	0.9%	7.54	1	51
Hepatitis C Acute	5	5	5	2	2	3	0.0%	150.0%	0.34	4	49
Hepatitis C, Chronic Infection	1,030	1,028	1,016	940	1,078	1,215	0.2%	( 4.5%)	70.59	1	51
Influenza	345	304	235	No Data	1,771	No Data	13.5%	( 80.5%)	23.64	40	51
Legionellosis	41	41	41	18	24	26	0.0%	70.8%	2.81	1	49
Lyme	3	3	3	1	1	1	0.0%	200.0%	0.21	30	49
Malaria	9	9	8	4	4	6	0.0%	125.0%	0.62	8	50
Meningococcal Disease	1	1	1	3	3	4	0.0%	( 66.7%)	0.07	10	10
Mumps	8	6	5	3	3	5	33.3%	166.7%	0.55	15	51
Pertussis	105	105	100	61	86	127	0.0%	22.1%	7.20	2	50
Rabies Animal	7	7	7	3	4	5	0.0%	75.0%	0.48	20	42
Rabies Post Exposure Prophylaxis	115	115	114	No Data	59	No Data	0.0%	93.6%	7.88	1	50
Rocky Mountain Spotted Fever	49	49	49	40	49	53	0.0%	0.0%	3.36	10	48
Salmonellosis	238	234	233	195	221	243	1.7%	7.7%	16.31	1	51
Shiga Toxin + (Non E. Coli/Unknown Organism)	2	2	2	2	3	3	0.0%	( 20.0%)	0.14	10	23
Shigellosis	323	320	319	20	27	50	0.9%	1096.3%	22.14	1	51
Strep Disease, Group A Invasive	39	37	37	31	34	62	5.4%	14.7%	2.67	1	51
Strep Pneumoniae, <5 Years, Invasive	3	3	3	9	9	11	0.0%	( 66.7%)	0.21	12	18
Strep Pneumoniae, Drug-Resistant	80	78	77	32	38	40	2.6%	110.5%	5.48	1	51
Tb Infection	956	954	947	608	751	1,035	0.2%	27.3%	65.52	1	51
Tuberculosis	30	30	30	24	31	34	0.0%	( 3.2%)	2.06	2	47

<sup>1</sup> 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.

<sup>2</sup> 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 51, 2016  
**Northwest District**

Disease or Condition	Week 51 YTD <sup>1</sup>	Week 50 YTD <sup>1</sup>	Week 49 YTD <sup>1</sup>	Five Year 1 <sup>st</sup> Quartile	Five Year Median	Five Year 3 <sup>rd</sup> Quartile	Change from Week 50 to Week 51	Change from Week 51 to 5-Year Median	Rate per 100,000 Week 51	First Week Reported <sup>2</sup>	Last Week Reported
Tularemia	7	7	7	4	6	6	0.0%	16.7%	0.48	5	45
Typhoid Fever	1	1	1	1	1	1	0.0%	0.0%	0.07	37	37
Varicella (Chickenpox)	39	39	39	No Data	83	No Data	0.0%	( 53.1%)	2.67	1	48
Vibriosis	1	1	1	1	1	2	0.0%	0.0%	0.07	23	23
West Nile Viral Encephalitis/Meningitis	3	3	3	2	4	5	0.0%	( 25.0%)	0.21	37	39
Yersiniosis	6	6	6	2	3	5	0.0%	140.0%	0.41	8	48

<sup>1</sup> 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.

<sup>2</sup> First Week Reported in 2016

**Missouri Department of Health and Senior Services (DHSS)**  
**Weekly Communicable Disease Report for Week 51, 2016**  
**Disease or Condition Analysis**  
**Relative to Last Report run on 12/20/2016 for Week 50, 2016**  
**Northwest District**

Disease or Condition	Data Status <sup>1,2</sup>	<sup>1st</sup> Week Reported Current Report	<sup>1st</sup> Week Reported Last Report	Change in Count	Week 51 Quartile Results <sup>3</sup>	Week 50 Quartile Results <sup>4</sup>	Data Trend Analysis <sup>5</sup>	Data Elevation Analysis <sup>6</sup>
Anaplasma phagocytophilum	Old	38	38	0	Below Median	Below Median	Flat	Below Normal
Animal Bites	Old	1	1	20	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	1	1	6	Above Maximum	Above Maximum	Increase	Very Elevated
Coccidioidomycosis	Old	4	4	0	Above 3 <sup>rd</sup> Quartile	Above Maximum	Flat	Elevated
Creutzfeldt-Jakob Disease (CJD)	Old	41	41	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Cyclosporiosis	Old	26	26	0	Above Maximum	Above Maximum	Flat	Very Elevated
Dengue Fever	Old	23	23	0	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Flat	Elevated
E Coli Shiga Toxin Positive	Old	8	8	2	Above Median	Above Median	Increase	Above Normal
E. Coli O157 H7	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Ehrlichia chaffeensis	Old	19	19	1	Below Median	Below Median	Increase	Below Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	26	26	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	3	3	2	Above 3 <sup>rd</sup> Quartile	Above Median	Increase	Elevated
Haemophilus Influenzae, Invasive	Old	1	1	1	Above Median	Above Median	Increase	Above Normal
Hansen's Disease (Leprosy)	Old	10	10	0	Below Median	Below Median	Flat	Below Normal
Hemolytic Uremic Syndrome	Old	6	6	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis A Acute	Old	3	3	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	3	3	2	Below Median	Below Median	Increase	Below Normal
Hepatitis B Acute	Old	16	16	1	Below Median	Below Median	Increase	Below Normal
Hepatitis B Chronic Infection	Old	1	1	2	Above Median	Above Median	Increase	Above Normal
Hepatitis C Acute	Old	4	4	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis C, Chronic Infection	Old	1	1	19	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	76	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Lyme	Old	30	30	0	Above Maximum	Above Maximum	Flat	Very Elevated
Malaria	Old	8	8	0	Above Maximum	Above Maximum	Flat	Very Elevated
Meningococcal Disease	Old	10	10	0	Below Median	Below Median	Flat	Below Normal
Mumps	Old	15	15	3	Above Maximum	Above 3 <sup>rd</sup> Quartile	Increase	Very Elevated
Pertussis	Old	2	2	0	Above Median	Above Median	Flat	Above Normal
Rabies Animal	Old	20	20	0	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Flat	Elevated
Rabies Post Exposure Prophylaxis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal

<sup>1</sup> Data Status: Old=Continuing Occurrence in 2016, New=First Occurrence in 2016 and Out=Case was Removed from WEBSURV

<sup>2</sup> First Week Reported and/or First Occurrence of Disease or Condition in 2016

<sup>3</sup> Week 51 Quartile Results are from the Current Report

<sup>4</sup> Week 50 Quartile Results are from the Last Report

<sup>5</sup> Based on Change in Count Current Report vs Last Report

<sup>6</sup> Based on Quartile Analysis from Current Report where: Below Normal=below median, Above Normal= above median, Elevated=above 3<sup>rd</sup> quartile and Very Elevated=Above Maximum.

Missouri Department of Health and Senior Services (DHSS)  
 Weekly Communicable Disease Report for Week 51, 2016  
 Disease or Condition Analysis  
 Relative to Last Report run on 12/20/2016 for Week 50, 2016  
 Northwest District

Disease or Condition	Data Status <sup>1,2</sup>	<sup>1st</sup> Week Reported Current Report	<sup>1st</sup> Week Reported Last Report	Change in Count	Week 51 Quartile Results <sup>3</sup>	Week 50 Quartile Results <sup>4</sup>	Data Trend Analysis <sup>5</sup>	Data Elevation Analysis <sup>6</sup>
Rocky Mountain Spotted Fever	Old	10	10	1	Below Median	Below Median	Increase	Below Normal
Salmonellosis	Old	1	1	4	Above Median	Above Median	Increase	Above Normal
Shiga Toxin + (Non E. Coli/Unknown Organism)	Old	10	10	-1	Below Median	Above Median	Decrease	Below Normal
Shigellosis	Old	1	1	2	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Increase	Elevated
Strep Disease, Group A Invasive	Old	1	1	2	Above Median	Above Median	Increase	Above Normal
Strep Pneumoniae, <5 Years, Invasive	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	1	1	2	Above Maximum	Above Maximum	Increase	Very Elevated
Tb Infection	Old	1	1	62	Above Median	Above Median	Increase	Above Normal
Tuberculosis	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Tularemia	Old	5	5	0	Above Maximum	Above Maximum	Flat	Very Elevated
Typhoid Fever	Old	37	37	0	Below Median	Below Median	Flat	Below Normal
Varicella (Chickenpox)	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Vibriosis	Old	23	23	0	Below Median	Below Median	Flat	Below Normal
West Nile Viral Encephalitis/Meningitis	Old	37	37	0	Below Median	Below Median	Flat	Below Normal
Yersiniosis	Old	8	8	0	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Flat	Elevated

<sup>1</sup> Data Status: Old=Continuing Occurrence in 2016, New=First Occurrence in 2016 and Out=Case was Removed from WEBSURV

<sup>2</sup> First Week Reported and/or First Occurrence of Disease or Condition in 2016

<sup>3</sup> Week 51 Quartile Results are from the Current Report

<sup>4</sup> Week 50 Quartile Results are from the Last Report

<sup>5</sup> Based on Change in Count Current Report vs Last Report

<sup>6</sup> Based on Quartile Analysis from Current Report where: Below Normal=below median, Above Normal= above median,

Elevated=above 3<sup>rd</sup> quartile and Very Elevated=Above Maximum.

**Missouri Department of Health and Senior Services (DHSS)  
Weekly Communicable Disease Report for Week 51, 2016  
Change in Count by District and State Total**

Disease or Condition	Central		Eastern		Northwest		Southeast		Southwest		State	
	Change in Count Current Report <sup>1</sup>	Change in Count Last Report <sup>2</sup>	Change in Count Current Report <sup>1</sup>	Change in Count Last Report <sup>2</sup>	Change in Count Current Report <sup>1</sup>	Change in Count Last Report <sup>2</sup>	Change in Count Current Report <sup>1</sup>	Change in Count Last Report <sup>2</sup>	Change in Count Current Report <sup>1</sup>	Change in Count Last Report <sup>2</sup>	Change in Count Current Report <sup>1</sup>	Change in Count Last Report <sup>2</sup>
Anaplasma phagocytophilum			0	2							0	2
Animal Bites	5	12	24	34	4	20	5	8	15	42	53	116
Campylobacteriosis	0	1	2	4	4	6	0	2	2	7	8	20
Cryptosporidiosis	0	1	0	1					1	2	1	4
E Coli Shiga Toxin Positive	1	1	2	4	0	2			1	1	4	8
E. Coli O157 H7			0	2	0	1					0	3
Ehrlichia chaffeensis			0	-1	0	1	0	1	0	1	0	2
Giardiasis			2	-5	0	2			1	4	3	1
Haemophilus Influenzae, Invasive			1	1	0	1					1	2
Hepatitis A Acute			1	1							1	1
Hepatitis B (Pregnancy) Prenatal			0	1	1	2					1	3
Hepatitis B Acute			0	1	1	1					1	2
Hepatitis B Chronic Infection	1	1	2	2	2	2	1	2	0	1	6	8
Hepatitis C Acute			0	2					0	1	0	3
Hepatitis C, Chronic Infection	0	7	7	21	2	19	3	13	7	35	19	95
Influenza	30	73	32	70	41	76	36	39	65	139	204	397
Legionellosis			1	1							1	1
Lyme			0	1							0	1
Mumps	10	112	5	8	2	3			1	5	18	128
Pertussis			2	10			1	1	0	-1	3	10
Rabies Post Exposure Prophylaxis			6	6			1	1	0	3	7	10
Rocky Mountain Spotted Fever					0	1	0	1			0	2
Salmonellosis			3	5	4	4	0	1	2	3	9	13
Shiga Toxin + (Non E. Coli/Unknown Organism)			0	-1	0	-1					0	-2
Shigellosis	1	2	3	1	3	2			0	1	7	6
Strep Disease, Group A Invasive					2	2					2	2
Strep Pneumoniae, Drug-Resistant			5	6	2	2	1	1	1	6	9	15
Tb Infection	1	3	10	16	2	62			0	2	13	83
Tuberculosis			1	1					0	1	1	2
Yersiniosis			1	1							1	1

<sup>1</sup> Current Report was run on 12/28/2016 for Week 51, 2016

<sup>2</sup> Last Report was run on 12/20/2016 for Week 50, 2016

**Missouri Department of Health and Senior Services (DHSS)**  
**Weekly Communicable Disease Report for Week 51, 2016**  
**First Week Reported by District and State Total**

	Central	Eastern	Northwest	Southeast	Southwest	State
Disease or Condition	1 <sup>st</sup> Week Reported <sup>1</sup>					
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

<sup>1</sup> First Week Reported in 2016

Missouri Department of Health and Senior Services (DHSS)  
 Weekly Communicable Disease Report for Week 51, 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>1<sup>st</sup> Week Reported<sup>1</sup></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

<sup>1</sup> First Week Reported in 2016

**Missouri Department of Health and Senior Services (DHSS)**  
**Weekly Communicable Disease Report**  
**Year-to-Date Rates for Week 51, 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>	0.33	0.07	0.44	0.21		
<i>Animal Bites</i>	112.82	118.63	166.39	128.38	151.18	124.92
<i>Brucellosis</i>			0.11	0.05	0.32	
<i>Campylobacteriosis</i>	10.53	24.81	46.06	23.47	21.09	37.43
<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>	3.51	6.78	14.16	7.27	10.63	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>	2.53	2.33	6.97	3.52	4.99	3.05
<i>E. Coli O157 H7</i>	1.36	2.06	2.29	2.41	7.08	2.39
<i>Ehrlichia chaffeensis</i>	1.64	2.06	7.51	4.11	6.44	12.19
<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>	5.01	5.35	6.42	5.79	8.05	6.53
<i>Haemophilus Influenzae, Invasive</i>	2.85	1.85	3.16	2.43	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>	0.33	0.34	0.22	0.29		0.44
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.78	2.47	1.96	1.81	1.13	0.44
<i>Hepatitis B Acute</i>	0.80	0.34	1.31	0.70	0.32	0.65
<i>Hepatitis B Chronic Infection</i>	8.00	7.54	6.32	7.31	6.76	6.09
<i>Hepatitis C Acute</i>	0.37	0.34	0.44	0.48	0.48	1.52
<i>Hepatitis C, Chronic Infection</i>	89.23	70.59	110.85	86.18	70.03	94.02
<i>Hepatitis D Acute</i>	0.05			0.02		
<i>Influenza</i>	9.87	23.64	32.67	20.68	27.69	28.07
<i>Legionellosis</i>	3.51	2.81	3.16	2.73	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>	0.23	0.21	0.76	0.27		
<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>	0.70	0.55	1.52	5.27	41.38	0.22
<i>Pertussis</i>	6.60	7.20	3.38	5.72	3.38	4.79
<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>	4.82	7.88	12.85	9.38	13.52	22.85
<i>Rocky Mountain Spotted Fever</i>	1.82	3.36	5.77	6.42	19.96	20.46
<i>Salmonellosis</i>	16.00	16.31	18.29	17.93	19.00	29.82
<i>Shiga Toxin + (Non E. Coli/Unknown Organism)</i>	0.23	0.14		0.16	0.16	0.22
<i>Shigellosis</i>	8.33	22.14	12.30	14.35	25.28	6.96
<i>Staph Aureus VISA</i>	0.98		0.22	0.43	0.16	
<i>Strep Disease, Group A Invasive</i>	2.48	2.67	1.63	2.20	2.09	0.65
<i>Strep Pneumoniae, &lt;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 51, 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>	4.21	5.48	6.97	4.90	2.74	5.01
<i>Tb Infection</i>	50.30	65.52	39.75	50.95	36.71	23.29
<i>Toxic Shock (Strep) Syndrome</i>	0.09		0.22	0.11	0.32	
<i>Tuberculosis</i>	1.68	2.06	0.98	1.73	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>	0.75	0.41	0.11	0.48	0.32	0.44

<sup>1</sup> Rates are Year-to-Date Counts per 100,000 population for Week 51, 2016

**Missouri Department of Health and Senior Services (DHSS)**  
**Weekly Communicable Disease Report**  
**Year-to-Date Relative Rates for Week 51, 2016<sup>1,2,3</sup>**

<i>Disease or Condition</i>	<i>Eastern</i>	<i>Northwest</i>	<i>Southwest</i>	<i>Central</i>	<i>Southeast</i>
<i>Anaplasma phagocytophilum</i>	1.53	0.32	2.03		
<i>Animal Bites</i>	0.88	0.92	1.30	1.18	0.97
<i>Brucellosis</i>			2.03	6.01	
<i>Campylobacteriosis</i>	0.45	1.06	1.96	0.90	1.60
<i>Coccidioidomycosis</i>	1.10	1.41	0.32	1.42	
<i>Creutzfeldt-Jakob Disease (CJD)</i>	1.57	0.38	0.61	1.80	
<i>Cryptosporidiosis</i>	0.48	0.93	1.95	1.46	1.11
<i>Cyclosporiasis</i>	1.19	1.39	0.28	0.82	0.55
<i>Dengue Fever</i>	1.31	0.96	1.52		
<i>E Coli Shiga Toxin Positive</i>	0.72	0.66	1.98	1.42	0.87
<i>E. Coli O157 H7</i>	0.56	0.85	0.95	2.94	0.99
<i>Ehrlichia chaffeensis</i>	0.40	0.50	1.83	1.57	2.96
<i>Ehrlichia ewingii</i>	1.16		2.71		1.35
<i>Ehrlichiosis or Anaplasmosis, Undetermined</i>	0.87	0.43	2.71	1.00	
<i>Giardiasis</i>	0.86	0.92	1.11	1.39	1.13
<i>Haemophilus Influenzae, Invasive</i>	1.17	0.76	1.30	0.53	0.98
<i>Hansen's Disease (Leprosy)</i>		3.83			
<i>Hemolytic Uremic Syndrome</i>		1.07	2.37	3.00	
<i>Hepatitis A Acute</i>	1.15	1.20	0.76		1.52
<i>Hepatitis B (Pregnancy) Prenatal</i>	0.99	1.37	1.09	0.62	0.24
<i>Hepatitis B Acute</i>	1.14	0.49	1.87	0.46	0.94
<i>Hepatitis B Chronic Infection</i>	1.09	1.03	0.86	0.93	0.83
<i>Hepatitis C Acute</i>	0.78	0.71	0.90	1.00	3.16
<i>Hepatitis C, Chronic Infection</i>	1.04	0.82	1.29	0.81	1.09
<i>Hepatitis D Acute</i>	2.62				
<i>Influenza</i>	0.48	1.14	1.58	1.34	1.36
<i>Legionellosis</i>	1.28	1.03	1.15	0.29	0.24
<i>Leptospirosis</i>			6.09		
<i>Listeriosis</i>	0.87		2.03	3.00	
<i>Lyme</i>	0.87	0.77	2.84		
<i>Malaria</i>	1.08	2.03		0.53	
<i>Meningococcal Disease</i>	0.65	0.96		2.25	3.04
<i>Mumps</i>	0.13	0.10	0.29	7.85	0.04
<i>Pertussis</i>	1.15	1.26	0.59	0.59	0.84
<i>Q Fever, Acute</i>			6.09		
<i>Rabies Animal</i>	0.40	1.03	0.70	1.73	3.28
<i>Rabies Post Exposure Prophylaxis</i>	0.51	0.84	1.37	1.44	2.44
<i>Rocky Mountain Spotted Fever</i>	0.28	0.52	0.90	3.11	3.19
<i>Salmonellosis</i>	0.89	0.91	1.02	1.06	1.66
<i>Shiga Toxin + (Non E. Coli/Unknown Organism)</i>	1.45	0.85		1.00	1.35
<i>Shigellosis</i>	0.58	1.54	0.86	1.76	0.49

(Continued)

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

<sup>2</sup> Relative rate between 2.0 and 3.0

<sup>3</sup> Relative rate above 3.0

Missouri Department of Health and Senior Services (DHSS)  
Weekly Communicable Disease Report

Year-to-Date Relative Rates for Week 51, 2016<sup>1,2,3</sup>

<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>	1.13	1.22	0.74	0.95	0.30
<i>Strep Pneumoniae, &lt;5 Years, Invasive</i>	0.87	1.92		1.50	
<i>Strep Pneumoniae, Drug-Resistant</i>	0.86	1.12	1.42	0.56	1.02
<i>Tb Infection</i>	0.99	1.29	0.78	0.72	0.46
<i>Toxic Shock (Strep) Syndrome</i>	0.87		2.03	3.00	
<i>Tuberculosis</i>	0.97	1.19	0.57	1.02	0.88
<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>	1.55	0.85	0.23	0.67	0.90

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

<sup>2</sup> Relative rate between 2.0 and 3.0

<sup>3</sup> 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 51, 2016 with Historical Limits**  
**Northwest**

Disease or Condition	Analysis Results <sup>1</sup>	4-week Count Mean for Week 51 <sup>2</sup>	Upper Limit for Week 51 <sup>3</sup>	4-week Count Mean for Week 50 <sup>2</sup>	Upper Limit for Week 50 <sup>3</sup>	4-week Count Mean for Week 49 <sup>2</sup>	Upper Limit for Week 49 <sup>3</sup>
Anaplasma phagocytophilum		0.0	0.2	0.0	0.3	0.0	0.3
Campylobacteriosis		2.8	5.8	1.8	5.9	3.0	6.1
Coccidioidomycosis		0.0	0.2	0.0	0.2	0.0	0.2
Creutzfeldt-Jakob Disease (CJD)		0.0	0.2	0.0	0.2	0.0	0.2
Cryptosporidiosis		0.3	2.4	0.5	2.7	0.5	3.3
Dengue Fever		0.0	0.1	0.0	0.1	0.0	0.1
E Coli Shiga Toxin Positive		1.0	0.7	1.0	0.8	0.0	0.9
E. Coli O157 H7		0.0	0.8	0.0	0.9	0.0	0.9
Ehrlichia chaffeensis		0.0	0.4	0.0	0.5	0.0	0.5
Giardiasis		0.3	3.5	0.5	3.8	0.5	4.0
Haemophilus Influenzae, Invasive		0.0	1.0	0.0	1.0	0.0	1.0
Hepatitis A Acute		0.0	0.3	0.0	0.3	0.0	0.3
Hepatitis B (Pregnancy) Prenatal		1.3	1.8	1.0	1.8	0.3	1.8
Hepatitis B Acute		0.3	0.8	0.0	0.8	0.3	0.8
Hepatitis B Chronic Infection		2.5	3.7	2.3	3.6	3.8	3.6
Hepatitis C Acute		0.5	0.2	0.5	0.2	0.5	0.2
Hepatitis C, Chronic Infection		8.5	32.1	9.5	32.5	12.8	32.8
Legionellosis		0.3	0.7	0.3	0.7	0.3	0.7
Malaria		0.3	0.3	0.3	0.3	0.0	0.3
Meningococcal Disease		0.0	0.5	0.0	0.5	0.0	0.5
Mumps		1.3	0.2	1.0	0.2	0.8	0.1
Pertussis		2.5	4.7	3.3	4.3	4.8	4.1
Rabies Animal		0.0	0.2	0.0	0.3	0.0	0.3
Rocky Mountain Spotted Fever		0.3	0.5	0.3	0.5	0.3	0.5
Salmonellosis		3.0	5.1	3.0	5.1	5.5	5.3
Shiga Toxin + (Non E. Coli/Unknown Organism)		0.0	0.1	0.0	0.1	0.0	0.1
Shigellosis		1.8	10.9	1.0	10.3	1.8	9.8
Strep Disease, Group A Invasive		1.0	1.0	0.5	1.1	0.5	1.0
Strep Pneumoniae, <5 Years, Invasive		0.0	0.6	0.0	0.6	0.0	0.6
Strep Pneumoniae, Drug-Resistant		3.3	1.1	2.8	1.1	3.3	1.1
Tuberculosis		0.0	0.6	0.3	0.6	0.3	0.6
Tularemia		0.0	0.1	0.0	0.1	0.0	0.2
West Nile Viral Encephalitis/Meningitis		0.0	0.3	0.0	0.4	0.0	0.5

<sup>1</sup> Analysis Results Legend for Week 51:

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.

<sup>2</sup> 4-week Count mean based on the current and 3 previous weeks.

<sup>3</sup> 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.

**Northwest District**

