

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

Missouri Department of Health and Senior Services (DHSS)

**Weekly Communicable Disease Report**

for the

**Southwest 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**  
**Southwest 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	4	4	4	4	6	7	0.0%	( 33.3%)	0.44	24	39
Animal Bites	1,528	1,513	1,495	No Data	1,313	No Data	1.0%	16.3%	166.39	1	51
Brucellosis	1	1	1	No Data	0	No Data	0.0%	0.0%	0.11	49	49
Campylobacteriosis	423	421	414	108	115	215	0.5%	267.8%	46.06	1	51
Coccidioidomycosis	1	1	1	3	3	3	0.0%	( 66.7%)	0.11	12	12
Creutzfeldt-Jakob Disease (CJD)	1	1	1	2	3	4	0.0%	( 66.7%)	0.11	40	40
Cryptosporidiosis	130	129	129	48	65	65	0.8%	100.0%	14.16	1	51
Cyclosporiasis	1	1	1	1	1	1	0.0%	0.0%	0.11	31	31
Dengue Fever	3	3	3	1	1	1	0.0%	200.0%	0.33	6	46
E Coli Shiga Toxin Positive	64	63	62	37	41	43	1.6%	56.1%	6.97	2	51
E. Coli O157 H7	21	21	21	20	24	32	0.0%	( 12.5%)	2.29	6	43
Ehrlichia chaffeensis	69	69	69	45	82	107	0.0%	( 15.9%)	7.51	1	39
Ehrlichia ewingii	4	4	4	2	2	4	0.0%	100.0%	0.44	22	35
Ehrlichiosis or Anaplasmosis, Undetermined	4	4	4	No Data	3	No Data	0.0%	23.1%	0.44	18	41
Giardiasis	59	58	58	47	57	62	1.7%	3.5%	6.42	3	51
Haemophilus Influenzae, Invasive	29	29	29	16	19	24	0.0%	52.6%	3.16	1	48
Hemolytic Uremic Syndrome	7	7	7	5	6	7	0.0%	16.7%	0.76	5	36
Hepatitis A Acute	2	2	2	1	3	6	0.0%	( 20.0%)	0.22	8	17
Hepatitis B (Pregnancy) Prenatal	18	18	18	19	19	22	0.0%	( 5.3%)	1.96	2	45
Hepatitis B Acute	12	12	12	11	20	21	0.0%	( 40.0%)	1.31	1	49
Hepatitis B Chronic Infection	58	58	57	43	62	68	0.0%	( 6.5%)	6.32	2	50
Hepatitis C Acute	4	4	3	1	2	3	0.0%	166.7%	0.44	3	50
Hepatitis C, Chronic Infection	1,018	1,011	997	982	1,031	1,278	0.7%	( 1.3%)	110.85	1	51
Influenza	300	235	161	No Data	531	No Data	27.7%	( 43.5%)	32.67	40	51
Legionellosis	29	29	29	9	10	24	0.0%	190.0%	3.16	8	49
Leptospirosis	1	1	1	No Data	0	No Data	0.0%	0.0%	0.11	10	10
Listeriosis	1	1	1	1	2	4	0.0%	( 50.0%)	0.11	40	40
Lyme	7	7	7	2	2	3	0.0%	250.0%	0.76	14	34
Mumps	14	13	3	1	1	1	7.7%	1300.0%	1.52	38	51
Pertussis	31	31	30	42	48	66	0.0%	( 35.4%)	3.38	4	50
Q Fever, Acute	2	2	2	1	1	1	0.0%	100.0%	0.22	28	33
Rabies Animal	3	3	3	1	2	3	0.0%	50.0%	0.33	19	43
Rabies Post Exposure Prophylaxis	118	118	115	No Data	90	No Data	0.0%	30.8%	12.85	2	50
Rocky Mountain Spotted Fever	53	53	53	78	83	87	0.0%	( 36.1%)	5.77	11	43
Salmonellosis	168	166	161	144	151	158	1.2%	11.3%	18.29	1	51
Shigellosis	113	113	113	15	17	26	0.0%	564.7%	12.30	2	42
Staph Aureus VISA	2	2	2	4	6	8	0.0%	( 66.7%)	0.22	9	20
Strep Disease, Group A Invasive	15	15	14	27	30	34	0.0%	( 50.0%)	1.63	1	50
Strep Pneumoniae, Drug-Resistant	64	63	60	21	25	35	1.6%	156.0%	6.97	1	51
Tb Infection	365	365	362	350	366	372	0.0%	( 0.3%)	39.75	1	50

<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  
**Southwest 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
Toxic Shock (Strep) Syndrome	2	2	2	1	1	1	0.0%	100.0%	0.22	36	49
Tuberculosis	9	9	9	10	13	17	0.0%	( 30.8%)	0.98	4	46
Tularemia	19	19	17	6	9	10	0.0%	111.1%	2.07	19	50
Varicella (Chickenpox)	56	56	56	No Data	54	No Data	0.0%	2.9%	6.10	1	46
Vibriosis	1	1	1	No Data	0	No Data	0.0%	0.0%	0.11	1	1
West Nile Viral Encephalitis/Meningitis	1	1	1	1	2	3	0.0%	( 33.3%)	0.11	35	35
Yersiniosis	1	1	1	1	1	1	0.0%	0.0%	0.11	8	8

<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**  
**Southwest 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	24	24	0	Below Median	Below Median	Flat	Below Normal
Animal Bites	Old	1	1	42	Above Median	Above Median	Increase	Above Normal
Bruceellosis	Old	49	49	0	Above Median	Above Median	Flat	Above Normal
Campylobacteriosis	Old	1	1	7	Above Maximum	Above Maximum	Increase	Very Elevated
Coccidioidomycosis	Old	12	12	0	Below Median	Below Median	Flat	Below Normal
Creutzfeldt-Jakob Disease (CJD)	Old	40	40	0	Below Median	Below Median	Flat	Below Normal
Cryptosporidiosis	Old	1	1	2	Above Maximum	Above Maximum	Increase	Very Elevated
Cyclosporiasis	Old	31	31	0	Below Median	Below Median	Flat	Below Normal
Dengue Fever	Old	6	6	0	Above Maximum	Above Maximum	Flat	Very Elevated
E Coli Shiga Toxin Positive	Old	2	2	1	Above Maximum	Above Maximum	Increase	Very Elevated
E. Coli O157 H7	Old	6	6	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	1	1	1	Below Median	Below Median	Increase	Below Normal
Ehrlichia ewingii	Old	22	22	0	Above Median	Above Median	Flat	Above Normal
Ehrlichiosis or Anaplasmosis, Undetermined	Old	18	18	0	Above Median	Above Median	Flat	Above Normal
Giardiasis	Old	3	3	4	Above Median	Below Median	Increase	Above Normal
Haemophilus Influenzae, Invasive	Old	1	1	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hemolytic Uremic Syndrome	Old	5	5	0	Above Median	Above Median	Flat	Above Normal
Hepatitis A Acute	Old	8	8	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B (Pregnancy) Prenatal	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Acute	Old	1	1	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	2	2	1	Below Median	Below Median	Increase	Below Normal
Hepatitis C Acute	Old	3	3	1	Above Maximum	Above 3 <sup>rd</sup> Quartile	Increase	Very Elevated
Hepatitis C, Chronic Infection	Old	1	1	35	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	139	Below Median	Below Median	Increase	Below Normal
Legionellosis	Old	8	8	0	Above 3 <sup>rd</sup> Quartile	Above 3 <sup>rd</sup> Quartile	Flat	Elevated
Leptospirosis	Old	10	10	0	Above Median	Above Median	Flat	Above Normal
Listeriosis	Old	40	40	0	Below Median	Below Median	Flat	Below Normal
Lyme	Old	14	14	0	Above Maximum	Above Maximum	Flat	Very Elevated
Mumps	Old	38	38	5	Above Maximum	Above Maximum	Increase	Very Elevated
Pertussis	Old	4	4	-1	Below Median	Below Median	Decrease	Below Normal
Q Fever, Acute	Old	28	28	0	Above Maximum	Above Maximum	Flat	Very Elevated
Rabies Animal	Old	19	19	0	Above Median	Above Median	Flat	Above Normal
Rabies Post Exposure Prophylaxis	Old	2	2	3	Above Median	Above Median	Increase	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  
 Southwest 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	11	11	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	3	Above Maximum	Above Maximum	Increase	Very Elevated
Shigellosis	Old	2	2	1	Above Maximum	Above Maximum	Increase	Very Elevated
Staph Aureus VISA	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
Strep Disease, Group A Invasive	Old	1	1	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	2	Above 3 <sup>rd</sup> Quartile	Above Median	Increase	Elevated
Toxic Shock (Strep) Syndrome	Old	36	36	0	Above Maximum	Above Maximum	Flat	Very Elevated
Tuberculosis	Old	4	4	1	Below Median	Below Median	Increase	Below Normal
Tularemia	Old	19	19	0	Above Maximum	Above Maximum	Flat	Very Elevated
Varicella (Chickenpox)	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Vibriosis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
West Nile Viral Encephalitis/Meningitis	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Yersiniosis	Old	8	8	0	Below Median	Below Median	Flat	Below 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  
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**  
**Southwest**

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	0.1	0.0	0.1	0.0	0.1
Campylobacteriosis		4.0	5.1	4.8	5.3	4.5	5.6
Coccidioidomycosis		0.0	0.4	0.0	0.4	0.0	0.4
Creutzfeldt-Jakob Disease (CJD)		0.0	0.1	0.0	0.1	0.0	0.1
Cryptosporidiosis		2.3	2.5	2.0	2.7	2.5	2.9
E Coli Shiga Toxin Positive		2.0	0.9	2.0	1.0	2.0	1.0
E. Coli O157 H7		0.0	1.5	0.0	1.5	0.0	1.6
Ehrlichia chaffeensis		0.0	0.5	0.0	0.7	0.0	0.8
Giardiasis		0.5	2.8	0.5	2.9	0.5	2.9
Haemophilus Influenzae, Invasive		0.3	0.9	0.3	0.9	0.3	0.9
Hemolytic Uremic Syndrome		0.0	0.2	0.0	0.2	0.0	0.2
Hepatitis A Acute		0.0	0.3	0.0	0.3	0.0	0.3
Hepatitis B (Pregnancy) Prenatal		0.0	0.8	0.0	0.8	0.0	0.8
Hepatitis B Acute		0.3	0.9	0.3	0.9	0.3	0.9
Hepatitis B Chronic Infection		0.5	1.5	0.8	1.4	0.8	1.4
Hepatitis C, Chronic Infection		9.5	27.0	8.3	27.4	10.0	27.9
Legionellosis		0.5	0.4	0.5	0.5	0.5	0.5
Listeriosis		0.0	0.2	0.0	0.2	0.0	0.2
Pertussis		1.0	1.2	1.3	1.2	1.3	1.2
Q Fever,Acute		0.0	0.1	0.0	0.1	0.0	0.1
Rabies Animal		0.0	0.2	0.0	0.2	0.0	0.3
Rocky Mountain Spotted Fever		0.0	1.5	0.0	1.8	0.0	2.2
Salmonellosis		2.8	3.0	2.5	3.3	1.8	3.5
Shigellosis		0.0	5.2	0.0	5.3	0.0	5.2
Strep Disease, Group A Invasive		0.3	1.1	0.3	1.0	0.0	1.0
Strep Pneumoniae, Drug-Resistant		2.5	0.7	2.3	0.7	2.3	0.7
Tuberculosis		0.0	0.4	0.0	0.5	0.5	0.5
Tularemia		0.8	0.1	0.8	0.2	0.5	0.2
West Nile Viral Encephalitis/Meningitis		0.0	0.0	0.0	0.1	0.0	0.1

<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.

**Southwest District**

