

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

Missouri Department of Health and Senior Services (DHSS)

**Weekly Communicable Disease Report**

for the

**Southeast District**

**Report for Week 3 of 2017**

**Report Run Date = January 24, 2017**

**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 3, 2017**  
**Southeast District**

Disease or Condition	Week 3 YTD <sup>1</sup>	Week 2 YTD <sup>1</sup>	Week 1 YTD <sup>1</sup>	Five Year 1 <sup>st</sup> Quartile	Five Year Median	Five Year 3 <sup>rd</sup> Quartile	Change from Week 2 to Week 3	Change from Week 3 to 5-Year Median	Rate per 100,000 Week 3	First Week Reported <sup>2</sup>	Last Week Reported
Animal Bites	18	14	8	No Data	25	No Data	28.6%	( 29.1%)	3.92	1	4
Campylobacteriosis	5	4	3	3	4	11	25.0%	25.0%	1.09	1	3
Hepatitis B Acute	1	1	0	1	1	1	0.0%	0.0%	0.22	2	2
Hepatitis B Chronic Infection	1	0	0	2	4	6	0.0%	( 75.0%)	0.22	3	3
Hepatitis C Acute	1	0	0	1	1	1	0.0%	0.0%	0.22	3	3
Hepatitis C, Chronic Infection	11	10	5	23	24	33	10.0%	( 54.2%)	2.39	1	3
Influenza	579	428	301	No Data	1,763	No Data	35.3%	( 67.2%)	126.01	40	3
Pertussis	1	0	0	1	2	4	0.0%	( 50.0%)	0.22	3	3
Rabies Post Exposure Prophylaxis	3	3	1	No Data	2	No Data	0.0%	50.0%	0.65	1	2
Salmonellosis	2	2	0	2	2	2	0.0%	0.0%	0.44	2	2
Shigellosis	4	4	1	2	5	8	0.0%	( 20.0%)	0.87	1	2
Strep Pneumoniae, Drug-Resistant	2	0	0	1	2	3	0.0%	0.0%	0.44	3	3
Tb Infection	3	1	1	4	6	9	200.0%	( 50.0%)	0.65	1	3
Varicella (Chickenpox)	2	1	1	No Data	2	No Data	100.0%	33.3%	0.44	1	3

<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 2017

**Missouri Department of Health and Senior Services (DHSS)**  
**Weekly Communicable Disease Report for Week 3, 2017**  
**Disease or Condition Analysis**  
**Relative to Last Report run on 01/17/2017 for Week 2, 2017**  
**Southeast 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 3 Quartile Results <sup>3</sup>	Week 2 Quartile Results <sup>4</sup>	Data Trend Analysis <sup>5</sup>	Data Elevation Analysis <sup>6</sup>
Animal Bites	Old	1	1	7	Below Median	Below Median	Increase	Below Normal
Campylobacteriosis	Old	1	1	1	Above Median	Below Median	Increase	Above Normal
Hepatitis B Acute	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	New	3		1	Below Median	Below Median	Increase	Below Normal
Hepatitis C Acute	New	3		1	Below Median	Below Median	Increase	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	8	Below Median	Below Median	Increase	Below Normal
Influenza	Old	40	40	246	Below Median	Below Median	Increase	Below Normal
Pertussis	New	3		1	Below Median	Below Median	Increase	Below Normal
Rabies Post Exposure Prophylaxis	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Salmonellosis	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	1	1	0	Below Median	Above Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	New	3		2	Below Median	Below Median	Increase	Below Normal
Tb Infection	Old	1	1	2	Below Median	Below Median	Increase	Below Normal
Varicella (Chickenpox)	Old	1		2	Above Median	Below Median	Increase	Above Normal

<sup>1</sup> Data Status: Old=Continuing Occurrence in 2017, New=First Occurrence in 2017 and Out=Case was Removed from WEBSURV

<sup>2</sup> First Week Reported and/or First Occurrence of Disease or Condition in 2017

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

<sup>4</sup> Week 2 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 3, 2017**  
**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>
Animal Bites	4	7	20	22	7	34	4	7	6	30	41	100
Campylobacteriosis	3	6	3	4	3	5	1	1	1	2	11	18
Cryptosporidiosis			1	1	1	1			1	1	3	3
E Coli Shiga Toxin Positive					1	1			0	1	1	2
E. Coli O157 H7					0	1					0	1
Giardiasis			0	1	1	1					1	2
Haemophilus Influenzae, Invasive	1	1	4	4	1	1					6	6
Hepatitis B (Pregnancy) Prenatal			1	1							1	1
Hepatitis B Chronic Infection			1	1	3	4	1	1			5	6
Hepatitis C Acute			0	2			1	1	0	1	1	4
Hepatitis C, Chronic Infection	0	5	11	29	6	24	1	8	6	18	24	84
Influenza	250	448	592	671	524	1,096	151	246	208	605	1,725	3,066
Influenza Death < 18 Years									0	1	0	1
Legionellosis			0	1	1	1					1	2
Listeriosis			1	1							1	1
Mumps	8	20	6	7	0	1			1	1	15	29
Pertussis			0	2			1	1	0	1	1	4
Rabies Post Exposure Prophylaxis	2	2							1	1	3	3
Salmonellosis	0	2	4	5	1	1			2	2	7	10
Shigellosis	0	1			3	3					3	4
Strep Disease, Group A Invasive	0	-1			2	2					2	1
Strep Pneumoniae, Drug-Resistant	1	2	6	6	4	6	2	2	2	3	15	19
Tb Infection	0	4	18	32	6	8	2	2	0	2	26	50
Varicella (Chickenpox)					0	1	1	2			1	3
Yersiniosis					0	1			0	1	0	2

<sup>1</sup> Current Report was run on 01/24/2017 for Week 3, 2017

<sup>2</sup> Last Report was run on 01/17/2017 for Week 2, 2017

**Missouri Department of Health and Senior Services (DHSS)**  
**Weekly Communicable Disease Report for Week 3, 2017**  
**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>					
Animal Bites	1	1	1	1	1	1
Campylobacteriosis	1	1	1	1	1	1
Cryptosporidiosis	2	3	3		3	2
E Coli Shiga Toxin Positive			3		2	2
E. Coli O157 H7			2			2
Giardiasis	2	1	3			1
Haemophilus Influenzae, Invasive	3	1	3		2	1
Hepatitis B (Pregnancy) Prenatal	1	2	1			1
Hepatitis B Acute				2		2
Hepatitis B Chronic Infection		3	1	3		1
Hepatitis C Acute		2	2	3	2	2
Hepatitis C, Chronic Infection	1	1	1	1	1	1
Influenza	40	40	40	40	40	40
Influenza Death < 18 Years		1			2	1
Legionellosis		2	1		1	1
Listeriosis		3				3
Mumps	1	1	1		1	1
Pertussis	2	1	1	3	2	1
Rabies Post Exposure Prophylaxis	1	1	1	1	1	1
Salmonellosis	1	1	1	2	1	1
Shigellosis	1	1	1	1		1
Strep Disease, Group A Invasive			1			1
Strep Pneumoniae, Drug-Resistant	1	1	1	3	1	1
Tb Infection	1	1	1	1	1	1
Tuberculosis			2			2
Varicella (Chickenpox)		2	2	1		1
Yersiniosis			2		2	2

<sup>1</sup> First Week Reported in 2017

**Missouri Department of Health and Senior Services (DHSS)**  
**Weekly Communicable Disease Report**  
**Year-to-Date Rates for Week 3, 2017**

<i>Disease or Condition</i>	<i>Central</i>	<i>Eastern</i>	<i>Northwest</i>	<i>Southeast</i>	<i>Southwest</i>	<i>State</i>
<i>Animal Bites</i>	2.58	4.26	4.66	3.92	6.53	4.52
<i>Campylobacteriosis</i>	1.29	0.42	0.69	1.09	0.44	0.64
<i>Cryptosporidiosis</i>	0.16	0.05	0.07		0.11	0.07
<i>E Coli Shiga Toxin Positive</i>			0.07		0.11	0.04
<i>E. Coli O157 H7</i>			0.07			0.02
<i>Giardiasis</i>	0.16	0.14	0.07			0.09
<i>Haemophilus Influenzae, Invasive</i>	0.16	0.47	0.07		0.11	0.23
<i>Hepatitis B (Pregnancy) Prenatal</i>	0.32	0.19	0.07			0.13
<i>Hepatitis B Acute</i>				0.22		0.02
<i>Hepatitis B Chronic Infection</i>		0.05	0.41	0.22		0.14
<i>Hepatitis C Acute</i>		0.14	0.07	0.22	0.11	0.11
<i>Hepatitis C, Chronic Infection</i>	1.29	1.73	2.26	2.39	3.05	2.09
<i>Influenza</i>	186.76	95.18	176.13	126.01	224.43	150.20
<i>Influenza Death &lt; 18 Years</i>		0.05			0.11	0.04
<i>Legionellosis</i>		0.09	0.14		0.11	0.09
<i>Listeriosis</i>		0.05				0.02
<i>Mumps</i>	5.63	0.47	0.07		0.22	0.86
<i>Pertussis</i>	0.16	0.33	0.14	0.22	0.11	0.21
<i>Rabies Post Exposure Prophylaxis</i>	0.48	0.05	0.21	0.65	0.33	0.23
<i>Salmonellosis</i>	0.48	0.42	1.03	0.44	0.44	0.59
<i>Shigellosis</i>	0.32	0.19	0.48	0.87		0.30
<i>Strep Disease, Group A Invasive</i>			0.21			0.05
<i>Strep Pneumoniae, Drug-Resistant</i>	0.64	0.80	0.75	0.44	0.76	0.73
<i>Tb Infection</i>	1.13	1.68	1.30	0.65	0.33	1.29
<i>Tuberculosis</i>			0.07			0.02
<i>Varicella (Chickenpox)</i>		0.05	0.14	0.44		0.09
<i>Yersiniosis</i>			0.07		0.11	0.04

<sup>1</sup> Rates are Year-to-Date Counts per 100,000 population for Week 3, 2017

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

Year-to-Date Relative Rates for Week 3, 2017<sup>1,2,3</sup>

<i>Disease or Condition</i>	<i>Central</i>	<i>Eastern</i>	<i>Northwest</i>	<i>Southeast</i>	<i>Southwest</i>
<i>Animal Bites</i>	0.57	0.94	1.03	0.87	1.44
<i>Campylobacteriosis</i>	2.00	0.65	1.07	1.69	0.68
<i>Cryptosporidiosis</i>	2.25	0.65	0.96		1.52
<i>E Coli Shiga Toxin Positive</i>			1.92		3.05
<i>E. Coli O157 H7</i>			3.83		
<i>Giardiasis</i>	1.80	1.57	0.77		
<i>Haemophilus Influenzae, Invasive</i>	0.69	2.01	0.29		0.47
<i>Hepatitis B (Pregnancy) Prenatal</i>	2.57	1.50	0.55		
<i>Hepatitis B Acute</i>				12.18	
<i>Hepatitis B Chronic Infection</i>		0.33	2.88	1.52	
<i>Hepatitis C Acute</i>		1.31	0.64	2.03	1.02
<i>Hepatitis C, Chronic Infection</i>	0.62	0.83	1.08	1.14	1.46
<i>Influenza</i>	1.24	0.63	1.17	0.84	1.49
<i>Influenza Death &lt; 18 Years</i>		1.31			3.05
<i>Legionellosis</i>		1.05	1.53		1.22
<i>Listeriosis</i>		2.62			
<i>Mumps</i>	6.57	0.55	0.08		0.25
<i>Pertussis</i>	0.75	1.53	0.64	1.01	0.51
<i>Rabies Post Exposure Prophylaxis</i>	2.08	0.20	0.88	2.81	1.41
<i>Salmonellosis</i>	0.82	0.71	1.74	0.74	0.74
<i>Shigellosis</i>	1.06	0.62	1.58	2.87	
<i>Strep Disease, Group A Invasive</i>			3.83		
<i>Strep Pneumoniae, Drug-Resistant</i>	0.88	1.09	1.03	0.59	1.04
<i>Tb Infection</i>	0.88	1.31	1.01	0.51	0.25
<i>Tuberculosis</i>			3.83		
<i>Varicella (Chickenpox)</i>		0.52	1.53	4.87	
<i>Yersiniosis</i>			1.92		3.05

<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 3, 2017 with Historical Limits**  
**Southeast**

<i>Disease or Condition</i>	<i>Analysis Results<sup>1</sup></i>	<i>4-week Count Mean for Week 3<sup>2</sup></i>	<i>Upper Limit for Week 3<sup>3</sup></i>	<i>4-week Count Mean for Week 2<sup>2</sup></i>	<i>Upper Limit for Week 2<sup>3</sup></i>	<i>4-week Count Mean for Week 1<sup>2</sup></i>	<i>Upper Limit for Week 1<sup>3</sup></i>
Campylobacteriosis		2.5	2.9	2.5	2.8	2.8	2.8
Hepatitis B Acute		0.3	0.5	0.3	0.5	0.0	.
Hepatitis B Chronic Infection		0.3	1.4	0.0	.	0.0	.
Hepatitis C, Chronic Infection		4.8	13.4	5.5	13.3	6.0	13.2
Pertussis		0.5	2.0	0.0	.	0.0	.
Salmonellosis		0.8	2.7	0.8	2.7	0.0	.
Shigellosis		1.3	1.9	1.3	1.8	1.0	1.9
Strep Pneumoniae, Drug-Resistant		0.8	1.8	0.0	.	0.0	.

<sup>1</sup> Analysis Results Legend for Week 3:

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 subsequents or leading weeks for the past five years.

**Southeast District**