

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Christian County

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Weekly Communicable Disease Report

for the

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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 or Probable Cases of Diseases & Conditions
entered into the Missouri Health Surveillance Information System (WEBSURV)**

Weekly Communicable Disease Report

Quartile Analysis of Year-to-date Counts for Week 50, 2016

Christian County

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	Relative Rate Week 50	First Week Reported ²	Last Week Reported ²
Animal Bites	128	126	123	No Data	89	No Data	1.6%	44.2%	235.79	1.87	1	50
Campylobacteriosis	36	36	35	4	6	14	0.0%	500.0%	66.32	2.87	1	49
Cryptosporidiosis	18	18	15	5	6	9	0.0%	200.0%	33.16	4.60	10	49
E Coli Shiga Toxin Positive	15	15	11	3	3	3	0.0%	400.0%	27.63	8.18	21	49
Ehrlichia chaffeensis	6	6	6	3	6	8	0.0%	0.0%	11.05	2.71	21	39
Ehrlichia ewingii	1	1	1	1	1	1	0.0%	0.0%	1.84	11.45	31	31
Giardiasis	8	8	8	3	4	5	0.0%	100.0%	14.74	2.55	4	43
Haemophilus Influenzae, Invasive	3	3	3	2	2	3	0.0%	50.0%	5.53	2.31	1	22
Hepatitis B (Pregnancy) Prenatal	1	1	1	2	2	2	0.0%	(50.0%)	1.84	1.05	13	13
Hepatitis B Chronic Infection	1	1	1	2	3	5	0.0%	(66.7%)	1.84	0.26	41	41
Hepatitis C, Chronic Infection	45	45	45	37	39	51	0.0%	15.4%	82.90	0.98	1	45
Influenza	9	9	4	No Data	24	No Data	0.0%	(62.2%)	16.58	1.22	41	49
Pertussis	4	4	4	6	11	14	0.0%	(61.9%)	7.37	1.33	30	47
Rabies Animal	1	1	1	1	1	1	0.0%	0.0%	1.84	3.96	43	43
Rabies Post Exposure Prophylaxis	11	11	11	No Data	12	No Data	0.0%	(11.3%)	20.26	2.20	2	38
Rocky Mountain Spotted Fever	2	2	2	3	4	5	0.0%	(50.0%)	3.68	0.58	23	28
Salmonellosis	12	12	12	8	10	11	0.0%	20.0%	22.11	1.25	1	46
Shigellosis	7	7	7	2	2	2	0.0%	250.0%	12.89	0.91	3	4
Strep Disease, Group A Invasive	1	1	1	1	2	2	0.0%	(50.0%)	1.84	0.85	11	11
Strep Pneumoniae, Drug-Resistant	4	4	4	3	4	4	0.0%	0.0%	7.37	1.59	9	48
Tb Infection	9	9	9	9	10	14	0.0%	(10.0%)	16.58	0.34	11	45
Tuberculosis	1	1	1	1	1	1	0.0%	0.0%	1.84	1.08	46	46
Tularemia	3	2	2	1	2	2	50.0%	100.0%	5.53	7.19	34	50
Varicella (Chickenpox)	1	1	1	No Data	7	No Data	0.0%	(85.7%)	1.84	0.70	1	1

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
Christian County

<i>Disease or Condition</i>	<i>Data Status</i> ^{1,2}	<i>1st Week Reported Current Report</i>	<i>1st Week Reported Last Report</i>	<i>Change in Count</i>	<i>Week 50 Quartile Results</i> ³	<i>Week 49 Quartile Results</i> ⁴	<i>Data Trend Analysis</i> ⁵	<i>Data Elevation Analysis</i> ⁶
Animal Bites	Old	1	1	2	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	1	1	1	Above Maximum	Above Maximum	Increase	Very Elevated
Cryptosporidiosis	Old	10	10	0	Above Maximum	Above Maximum	Flat	Very Elevated
E Coli Shiga Toxin Positive	Old	21	21	0	Above Maximum	Above Maximum	Flat	Very Elevated
Ehrlichia chaffeensis	Old	21	21	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia ewingii	Old	31	31	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	4	4	0	Above Maximum	Above Maximum	Flat	Very Elevated
Haemophilus Influenzae, Invasive	Old	1	1	0	Above 3 rd Quartile	Above Maximum	Flat	Elevated
Hepatitis B (Pregnancy) Prenatal	Old	13	13	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	41	41	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	1	1	0	Above Median	Above Median	Flat	Above Normal
Influenza	Old	41	41	6	Below Median	Below Median	Increase	Below Normal
Pertussis	Old	30	30	1	Below Median	Below Median	Increase	Below Normal
Rabies Animal	Old	43	43	0	Below Median	Below Median	Flat	Below Normal
Rabies Post Exposure Prophylaxis	Old	2	2	0	Below Median	Below Median	Flat	Below Normal
Rocky Mountain Spotted Fever	Old	23	23	0	Below Median	Below Median	Flat	Below Normal
Salmonellosis	Old	1	1	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Shigellosis	Old	3	3	0	Above Maximum	Above Maximum	Flat	Very Elevated
Strep Disease, Group A Invasive	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Strep Pneumoniae, Drug-Resistant	Old	9	9	0	Below Median	Below Median	Flat	Below Normal
Tb Infection	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Tuberculosis	Old	46	46	0	Below Median	Below Median	Flat	Below Normal
Tularemia	Old	34	34	1	Above Maximum	Above Median	Increase	Very Elevated
Varicella (Chickenpox)	Old	1	1	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
Year-to-Date Rates for Week 50, 2016**

<i>Disease or Condition</i>	<i>Rate</i> ¹	<i>Relative Rate</i> ^{2,3,4}
<i>Animal Bites</i>	235.79	1.87
<i>Campylobacteriosis</i>	66.32	2.87
<i>Cryptosporidiosis</i>	33.16	4.60
<i>E Coli Shiga Toxin Positive</i>	27.63	8.18
<i>Ehrlichia chaffeensis</i>	11.05	2.71
<i>Ehrlichia ewingii</i>	1.84	11.45
<i>Giardiasis</i>	14.74	2.55
<i>Haemophilus Influenzae, Invasive</i>	5.53	2.31
<i>Hepatitis B (Pregnancy) Prenatal</i>	1.84	1.05
<i>Hepatitis B Chronic Infection</i>	1.84	0.26
<i>Hepatitis C, Chronic Infection</i>	82.90	0.98
<i>Influenza</i>	16.58	1.22
<i>Pertussis</i>	7.37	1.33
<i>Rabies Animal</i>	1.84	3.96
<i>Rabies Post Exposure Prophylaxis</i>	20.26	2.20
<i>Rocky Mountain Spotted Fever</i>	3.68	0.58
<i>Salmonellosis</i>	22.11	1.25
<i>Shigellosis</i>	12.89	0.91
<i>Strep Disease, Group A Invasive</i>	1.84	0.85
<i>Strep Pneumoniae, Drug-Resistant</i>	7.37	1.59
<i>Tb Infection</i>	16.58	0.34
<i>Tuberculosis</i>	1.84	1.08
<i>Tularemia</i>	5.53	7.19
<i>Varicella (Chickenpox)</i>	1.84	0.70

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

² The relative rate is computed as the county or district rate divided by the overall state rate

³ Relative rate between 2.0 and 3.0

⁴ Relative rate above 3.0

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

Christian County

<i>Disease or Condition</i>	<i>Analysis Results ¹</i>	<i>4-week Count Mean for Week 50 ²</i>	<i>Upper Limit for Week 50 ³</i>	<i>4-week Count Mean for Week 49 ²</i>	<i>Upper Limit for Week 49 ³</i>	<i>4-week Count Mean for Week 48 ²</i>	<i>Upper Limit for Week 48 ³</i>
Campylobacteriosis		0.8	0.6	0.8	0.6	0.5	0.7
Hepatitis C, Chronic Infection		0.0	1.7	0.0	1.9	0.5	2.0
Salmonellosis		0.0	0.5	0.3	0.5	0.3	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 subsequents or leading weeks for the past five years.**

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