

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Ray County

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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)**

**Missouri Department of Health and Senior Services (DHSS)
Weekly Communicable Disease Report
Quartile Analysis of Year-to-date Counts for Week 50, 2016**

Ray County

<i>Disease or Condition</i>	<i>Week 50 YTD¹</i>	<i>Week 49 YTD¹</i>	<i>Week 48 YTD¹</i>	<i>Five Year 1st Quartile</i>	<i>Five Year Median</i>	<i>Five Year 3rd Quartile</i>	<i>Change from Week 49 to Week 50</i>	<i>Change from Week 50 to 5-Year Median</i>	<i>Rate per 100,000 Week 50</i>	<i>Relative Rate Week 50</i>	<i>First Week Reported²</i>	<i>Last Week Reported²</i>
Campylobacteriosis	2	2	2	2	4	4	0.0%	(50.0%)	8.56	0.37	14	39
Giardiasis	1	1	1	1	2	2	0.0%	(33.3%)	4.28	0.74	34	34
Hepatitis C, Chronic Infection	8	8	8	11	12	14	0.0%	(33.3%)	34.26	0.41	7	46
Salmonellosis	5	5	5	2	4	4	0.0%	25.0%	21.41	1.21	19	48
Shigellosis	1	1	1	1	2	2	0.0%	(33.3%)	4.28	0.30	11	11
Tb Infection	6	6	6	1	1	1	0.0%	500.0%	25.69	0.52	7	23

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**

Ray 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
Campylobacteriosis	Old	14	14	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	34	34	0	Below Median	Below Median	Flat	Below Normal
Hepatitis C, Chronic Infection	Old	7	7	1	Below Median	Below Median	Increase	Below Normal
Salmonellosis	Old	19	19	0	Above 3 rd Quartile	Above 3 rd Quartile	Flat	Elevated
Shigellosis	Old	11	11	0	Below Median	Below Median	Flat	Below Normal
Tb Infection	Old	7	7	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

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>Campylobacteriosis</i>	8.56	0.37
<i>Giardiasis</i>	4.28	0.74
<i>Hepatitis C, Chronic Infection</i>	34.26	0.41
<i>Salmonellosis</i>	21.41	1.21
<i>Shigellosis</i>	4.28	0.30
<i>Tb Infection</i>	25.69	0.52

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

Ray County

<i>Disease or Condition</i>	<i>Analysis Results¹</i>	<i>4-week Count Mean for Week 50²</i>	<i>Upper Limit for Week 50³</i>	<i>4-week Count Mean for Week 49²</i>	<i>Upper Limit for Week 49³</i>	<i>4-week Count Mean for Week 48²</i>	<i>Upper Limit for Week 48³</i>
Hepatitis C, Chronic Infection		0.0	0.7	0.3	0.7	0.3	0.7

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.**

Weekly Communicable Disease Reports

4-week Count Mean Z-Scores for Week 50, 2016

(Z-Scores greater than 2.0)

Ray County