

Missouri Department of Health and Senior
Services (DHSS)

Weekly Communicable Disease Report
for the

Marion County

Missouri Department of Health and Senior Services (DHSS)

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for the

Marion County

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**

Marion 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>
Animal Bites	48	48	47	No Data	29	No Data	0.0%	63.2%	169.68	1.34	3	49
Campylobacteriosis	7	7	7	3	3	6	0.0%	133.3%	24.74	1.07	9	41
Cryptosporidiosis	2	2	2	2	4	7	0.0%	(50.0%)	7.07	0.98	34	44
Ehrlichia chaffeensis	1	1	1	1	1	1	0.0%	0.0%	3.53	0.87	35	35
Giardiasis	2	2	2	2	3	3	0.0%	(20.0%)	7.07	1.22	38	46
Hepatitis B Chronic Infection	2	2	2	1	1	1	0.0%	100.0%	7.07	0.99	2	29
Hepatitis C, Chronic Infection	28	28	27	21	25	25	0.0%	12.0%	98.98	1.17	5	49
Influenza	4	3	3	No Data	28	No Data	33.3%	(85.7%)	14.14	1.04	40	50
Pertussis	6	5	5	1	4	6	20.0%	71.4%	21.21	3.83	45	50
Rabies Post Exposure Prophylaxis	6	6	6	No Data	5	No Data	0.0%	14.3%	21.21	2.30	11	36
Salmonellosis	3	3	3	3	4	5	0.0%	(25.0%)	10.60	0.60	14	35
Shigellosis	5	5	5	No Data	0	No Data	0.0%	0.0%	17.67	1.24	41	48
Tb Infection	3	3	3	2	3	4	0.0%	0.0%	10.60	0.21	8	35
Varicella (Chickenpox)	1	1	1	No Data	2	No Data	0.0%	(55.6%)	3.53	1.34	47	47

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
Marion 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	3	3	2	Above Median	Above Median	Increase	Above Normal
Campylobacteriosis	Old	9	9	0	Above Maximum	Above Maximum	Flat	Very Elevated
Cryptosporidiosis	Old	34	34	0	Below Median	Below Median	Flat	Below Normal
Ehrlichia chaffeensis	Old	35	35	0	Below Median	Below Median	Flat	Below Normal
Giardiasis	Old	38	38	0	Below Median	Below Median	Flat	Below Normal
Hepatitis B Chronic Infection	Old	2	2	0	Above Maximum	Above Maximum	Flat	Very Elevated
Hepatitis C, Chronic Infection	Old	5	5	1	Above Maximum	Above Maximum	Increase	Very Elevated
Influenza	Old	40	40	1	Below Median	Below Median	Increase	Below Normal
Pertussis	Old	45	45	1	Above Median	Above Median	Increase	Above Normal
Rabies Post Exposure Prophylaxis	Old	11	11	0	Above Median	Above Median	Flat	Above Normal
Salmonellosis	Old	14	14	0	Below Median	Below Median	Flat	Below Normal
Shigellosis	Old	41	41	0	Above Median	Above Median	Flat	Above Normal
Tb Infection	Old	8	8	0	Below Median	Below Median	Flat	Below Normal
Varicella (Chickenpox)	Old	47	47	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>	169.68	1.34
<i>Campylobacteriosis</i>	24.74	1.07
<i>Cryptosporidiosis</i>	7.07	0.98
<i>Ehrlichia chaffeensis</i>	3.53	0.87
<i>Giardiasis</i>	7.07	1.22
<i>Hepatitis B Chronic Infection</i>	7.07	0.99
<i>Hepatitis C, Chronic Infection</i>	98.98	1.17
<i>Influenza</i>	14.14	1.04
<i>Pertussis</i>	21.21	3.83
<i>Rabies Post Exposure Prophylaxis</i>	21.21	2.30
<i>Salmonellosis</i>	10.60	0.60
<i>Shigellosis</i>	17.67	1.24
<i>Tb Infection</i>	10.60	0.21
<i>Varicella (Chickenpox)</i>	3.53	1.34

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

Marion 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		0.3	1.1	0.3	1.0	0.3	1.1

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)

Marion County