



## St. Charles County Annual Communicable Disease Report Department of Community Health and the Environment 2011



### Reportable Conditions: St. Charles County Report Summary

The data presented below is a summary of the reportable diseases that meet the confirmed and probable Missouri Dept of Health and Senior Services case definition (*excluded from this report are Sexually Transmitted Diseases and Influenza. Those can be found in separate reports*). There were a total of 754 reportable cases in St. Charles County in 2011. This is a 39.9% reduction from the previous 5 year median. Using 2010 St. Charles County population data of 360,485 people this gives an incidence rate of 209.2 people per 100,000 population.

*Enteric Illnesses:* The 2011 reported enteric cases were down 23.8% from the previous 5 year median. The most noteworthy decline was Shigellosis, Cryptosporidiosis and Giardia cases. In 2007 we had widespread Shigellosis outbreak which inflated our previous 5 year median and number of cases has declined since then. In 2011 we had 4 reported Shigellosis cases. We typically see about a dozen Cryptosporidiosis cases per year (exception was 2010's cryptosporidiosis outbreak when we had 34 cases). In 2011 we had only 5 cases of Cryptosporidiosis, a 140.0% decline from previous 5 year median.

*Respiratory:* Overall Respiratory illnesses in 2011 were similar to previous years. They were only 2.1% higher compared to previous 5 year median.

*Vectorborne and Zoonotic:* There were 15 cases of Vectorborne and Zoonotic cases in 2011; this is similar to what we have seen in previous years. Most cases were reported in the 3<sup>rd</sup> quarter of the year. This past year we saw a Dengue Fever, Malaria and a Tularemia case; these are cases we do not see often. In both the Dengue Fever and the Malaria cases were patients that traveled to areas where these illnesses are prevalent.

*Tuberculosis and Latent TB Infections (LTBI):* There were 5 cases of TB reported in St. Charles County for 2011. This is the highest number we have seen in the last 5 years and one higher than the 4 cases we saw last year. None of the cases were connected and most were foreign borne. We saw 64 LTBI cases, a 48.4% drop from the previous 5 year median.

	YTD Totals: Year						Previous YTD 5 Yr Median	% Change From YTD 5 Yr Median	2011 Rate Per 100000	Quarterly Numbers			
	2006	2007	2008	2009	2010	2011				1st	2nd	3rd	4th
<b>Enteric, Food and Waterborne</b>													
CAMPYLOBACTERIOSIS	55	48	36	34	47	56	47	16.1%	15.86	10	12	23	11
CRYPTOSPORIDIOSIS	10	21	10	12	34	5	12	-140.0%	1.42	3	0	0	2
E COLI SHIGA TOXIN POSITIVE	13	7	10	10	7	11	10	9.1%	3.12	3	2	5	1
E. COLI O157 H7	17	9	10	2	7	7	9	-28.6%	1.98	0	0	1	6
GIARDIASIS	40	36	31	41	17	18	36	-100.0%	5.10	1	3	5	9
HEPATITIS A ACUTE	6	1	4	2	0	3	2	33.3%	0.85	0	1	0	2
LISTERIOSIS	0	0	0	0	1	0	0	0.0%	0.00	0	0	0	0

SALMONELLOSIS	39	46	47	34	54	39	46	-17.9%	11.05	3	9	13	14
SHIGA TOXIN POSITIVE (NON E. COLI, UNK)	1	1	2	0	0	0	1	0.0%	0.00	0	0	0	0
SHIGELLOSIS	4	100	22	21	10	4	21	-425.0%	1.13	1	0	2	1
YERSINIOSIS	1	0	0	0	0	0	0	0.0%	0.00	0	0	0	0
<b>Enteric total</b>	<b>186</b>	<b>269</b>	<b>172</b>	<b>156</b>	<b>177</b>	<b>143</b>	<b>177</b>	<b>-23.8%</b>	<b>40.50</b>	<b>21</b>	<b>27</b>	<b>49</b>	<b>46</b>
<b>Respiratory and Direct Contact</b>													
ADULT RESPIRATORY DISTRESS SYNDROME (ARDS)	0	0	0	0	0	1	0	100.0%	0.28	0	0	1	0
HAEMOPHILUS INFLUENZAE, INVASIVE	5	0	6	3	2	5	3	40.0%	1.42	1	2	1	1
LEGIONELLOSIS	0	3	3	4	2	0	3	0.0%	0.00	0	0	0	0
PERTUSSIS	20	9	85	85	23	26	23	11.5%	7.36	1	0	8	17
STREP DISEASE, GROUP A INVASIVE	3	5	11	6	15	12	6	50.0%	3.40	5	2	3	2
STREP PNEUMONIAE, <5 YEARS, INVASIVE	0	3	1	4	3	1	3	-200.0%	0.28	1	0	0	0
STREP PNEUMONIAE, DRUG-RESISTANT	1	1	3	9	2	4	2	50.0%	1.13	4	0	0	0
<b>Respiratory Total</b>	<b>29</b>	<b>21</b>	<b>109</b>	<b>111</b>	<b>47</b>	<b>48</b>	<b>47</b>	<b>2.1%</b>	<b>13.59</b>	<b>12</b>	<b>4</b>	<b>13</b>	<b>20</b>
<b>Vectorborne and Zoonotics</b>													
ANAPLASMA PHAGOCYTOPHILUM	0	1	0	0	1	0	0	0.0%	0.00	0	0	0	0
DENGUE FEVER	0	1	0	0	2	1	0	100.0%	0.28	0	0	1	0
EHRlichia CHAFFEENSIS	0	2	6	8	6	5	6	-20.0%	1.42	0	2	3	0
EHRlichiosis ANAPLASMOSIS UNDETERMINED	0	0	3	0	0	0	0	0.0%	0.00	0	0	0	0
LYME	0	0	0	3	0	1	0	100.0%	0.28	0	1	0	0
MALARIA	0	0	0	0	0	1	0	100.0%	0.28	0	0	1	0
NEUROINVASIVE WEST NILE	1	1	1	0	1	0	1	0.0%	0.00	0	0	0	0
NON NEUROINVASIVE WEST NILE	0	0	1	0	0	0	0	0.0%	0.00	0	0	0	0
Q FEVER ACUTE	1	2	1	0	0	0	1	0.0%	0.00	0	0	0	0
Q FEVER CHRONIC	1	0	0	0	0	0	0	0.0%	0.00	0	0	0	0
ROCKY MOUNTAIN SPOTTED FEVER	3	1	3	5	4	6	3	50.0%	1.70	1	1	4	0
TULAREMIA	0	0	0	0	0	1	0	100.0%	0.28	0	0	1	0
<b>Vectorborne and Zoonotics Total</b>	<b>6</b>	<b>8</b>	<b>15</b>	<b>16</b>	<b>14</b>	<b>15</b>	<b>14</b>	<b>6.7%</b>	<b>4.25</b>	<b>1</b>	<b>4</b>	<b>10</b>	<b>0</b>
<b>Other Conditions</b>													
ANIMAL BITES	328	324	401	453	415	306	401	-31.0%	86.67	61	90	77	60
COCCIDIOIDOMYCOSIS	1	1	0	2	1	0	1	0.0%	0.00	0	0	0	0
CREUTZFELDT-JAKOB DISEASE (CJD)	1	0	0	1	0	0	0	0.0%	0.00	0	0	0	0

Data Source: Missouri Depart. Of Health and Senior Services (MOHSIS)

HEMOLYTIC UREMIC SYNDROME	0	1	3	0	0	0	0	0.0%	0.00	0	0	0	0
HEPATITIS B (PREGNANCY) PRENATAL	11	5	7	4	6	5	6	-20.0%	1.42	3	0	1	1
HEPATITIS B ACUTE	0	3	2	1	3	2	2	0.0%	0.57	0	1	1	0
HEPATITIS B CHRONIC INFECTION	3	18	16	9	7	14	9	35.7%	3.68	5	2	4	2
HEPATITIS C ACUTE	0	0	0	0	0	0	0	0.0%	0.00	0	0	0	0
HEPATITIS C CHRONIC INFECTION	129	140	163	130	119	130	130	0.0%	33.70	29	27	37	26
LTBI	81	155	95	103	70	64	95	-48.4%	18.13	8	31	15	10
MENINGOCOCCAL DISEASE	2	0	0	0	2	1	0	100.0%	0.28	1	0	0	0
MOTT	0	22	34	28	30	26	28	-7.7%	7.36	7	8	4	7
MUMPS	1	1	0	0	0	0	0	0.0%	0.00	0	0	0	0
RABIES ANIMAL	0	0	1	1	1	0	1	0.0%	0.00	0	0	0	0
RABIES POST EXPOSURE PROPHYLAXIS	0	12	16	11	29	17	12	29.4%	4.81	5	6	2	4
TB DISEASE	1	2	1	1	4	5	1	80.0%	1.42	2	1	1	2
TOXIC SHOCK (STAPH) SYNDROME	0	0	0	1	0	0	0	0.0%	0.00	0	0	0	0