



## St. Charles County Annual Communicable Disease Report Department of Community Health and the Environment 2009



### 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 946 reportable cases in St. Charles County In 2009. Using 2007 population data of 343,952 people this gives an incidence rate of 275.0 people per 100,000. This is similar to what we have seen in previous years (966 cases in 2008 and 891 cases in 2007).

*Enteric, Food and Waterborne:* In 2009 we saw an overall decrease among enteric diseases, a 10.3% decrease from the pervious 5 year median. The most noteworthy decline was among E. Coli O157 H7cases (only 2 cases in 2009). Campylobacter and Salmonella cases were also lower. Shigella cases still remain above the 5 year median, but 21 cases in a big drop from the 100 we saw in 2007.

*Respiratory and Direct Contact:* Respiratory illnesses increased in 2009 (these numbers do not include influenza). There was a jump in Pertussis which has remained higher than normal the last 2 years with 85 cases per year. Strep pneumoniae drug-resistant and Strep pneumoniae <5 years invasive were also higher than normal in 2009. The reason for this is not clear; this is not seen across Missouri and is something we will continue to monitor.

*Vectorborne and Zoonotic:* Vectorborne diseases are also higher than usual with 8, 3 and 6 cases of Ehrlichia, Lyme and Rocky Mountain Spotted Fever, respectively in 2009. This may be partly due to people spending more time outdoors in the cooler than normal summer we experienced.

*Tuberculosis and Latent TB Infections (LTBI):* There was 1 case of active TB reported in St. Charles County for 2009. We usually see anywhere from 1 – 4 cases of TB a year. There were also 105 cases of LTBI.

	Totals: Year						Previous 5 Year Median	% Change From 5 Yr Median	2009 Rate Per 100000	Month				Mean from Last 4 Months
	2004	2005	2006	2007	2008	2009				5	6	7	8	
<b>Enteric, Food and Waterborne</b>														
CAMPYLOBACTERIOSIS	51	28	55	48	36	34	48	-41.2%	10	4	3	1	3	3
CRYPTOSPORIDIOSIS	5	7	10	21	10	12	10	16.7%	3	1	0	0	0	0
E COLI SHIGA TOXIN POSITIVE	6	4	13	7	10	9	7	22.2%	3	1	0	2	2	1
E. COLI O157 H7	1	9	17	9	10	2	9	-350.0%	1	0	1	1	0	1
E. COLI SHIGA TOXIN POSITIVE (NON O157)	5	1	0	0	0	0	0	0.0%	0	0	0	0	0	0
E. COLI SHIGA TOXIN POSITIVE (NOT SEROGROUPED)	1	3	0	0	0	0	0	0.0%	0	0	0	0	0	0
GIARDIASIS	28	33	40	36	31	41	33	19.5%	12	4	6	2	1	3
HEPATITIS A ACUTE	1	1	6	1	4	2	1	50.0%	1	0	0	0	0	0
LISTERIOSIS	2	0	0	0	0	0	0	0.0%	0	0	0	0	0	0
SALMONELLOSIS	47	43	39	46	47	35	46	-31.4%	10	4	5	3	1	3

SHIGA TOXIN POSITIVE (NON E. COLI, UNK)	0	0	1	1	2	0	1	0.0%	0	0	0	0	0	
SHIGELLOSIS	5	13	4	100	22	21	13	38.1%	6	8	0	1	5	4
YERSINIOSIS	0	0	1	0	0	0	0	0.0%	0	0	0	0	0	
<b>Enteric total</b>	<b>152</b>	<b>142</b>	<b>186</b>	<b>269</b>	<b>172</b>	<b>156</b>	<b>172</b>	<b>-10.3%</b>	<b>45</b>	<b>22</b>	<b>15</b>	<b>10</b>	<b>12</b>	<b>15</b>

### Respiratory and Direct Contact

HAEMOPHILUS INFLUENZAE, INVASIVE	1	4	5	0	6	3	4	-33.3%	1	0	0	0	0	0
LEGIONELLOSIS	2	1	0	3	3	4	2	50.0%	1	0	0	0	2	1
PERTUSSIS	9	55	20	9	85	85	20	76.5%	25	2	3	1	0	2
STREP DISEASE, GROUP A INVASIVE	2	7	3	5	11	6	5	16.7%	2	0	0	2	1	1
STREP PNEUMONIAE, <5 YEARS, INVASIVE	0	1	0	3	1	4	1	75.0%	1	0	0	0	1	0
STREP PNEUMONIAE, DRUG-RESISTANT	1	1	1	1	3	9	1	88.9%	3	0	1	2	2	1
<b>Respiratory Total</b>	<b>15</b>	<b>69</b>	<b>29</b>	<b>21</b>	<b>109</b>	<b>111</b>	<b>29</b>	<b>73.9%</b>	<b>32</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>4</b>

### Vectorborne and Zoonotics

ANAPLASMA PHAGOCYTOPHILUM	0	0	0	1	0	0	0	0.0%	0	0	0	0	0	0
DENGUE FEVER	0	0	0	1	0	0	0	0.0%	0	0	0	0	0	0
EHRlichia CHAFFEENSIS	1	1	0	2	6	8	1	87.5%	2	0	0	0	0	0
EHRlichiosis ANAPLASMOSIS UNDETERMINED	0	0	0	0	3	0	0	0.0%	0	0	0	0	0	0
LYME	1	0	0	0	0	3	0	100.0%	1	0	0	0	1	0
MALARIA	1	1	0	0	0	0	0	0.0%	0	0	0	0	0	0
NEUROINVASIVE WEST NILE	1	0	1	1	1	0	1	0.0%	0	0	0	0	0	0
NON NEUROINVASIVE WEST NILE	0	1	0	0	1	0	0	0.0%	0	0	0	0	0	0
Q FEVER ACUTE	0	0	1	2	1	0	1	0.0%	0	0	0	0	0	0
Q FEVER CHRONIC	0	0	1	0	0	0	0	0.0%	0	0	0	0	0	0
ROCKY MOUNTAIN SPOTTED FEVER	2	1	3	1	3	6	2	66.7%	2	0	1	0	0	0
TULAREMIA	2	0	0	0	0	0	0	0.0%	0	0	0	0	0	0
<b>Vectorborne and Zoonotics Total</b>	<b>8</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>15</b>	<b>17</b>	<b>8</b>	<b>52.9%</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>

### Other Conditions

ANIMAL BITES	177	279	329	324	402	457	324	29.1%	133	30	31	23	30	29
COCCIDIOIDOMYCOSIS	1	0	1	1	0	2	1	50.0%	1	0	0	0	0	0
CREUTZFELDT-JAKOB DISEASE (CJD)	1	0	1	0	0	1	0	100.0%	0	0	0	0	0	0
HEMOLYTIC UREMIC SYNDROME	1	0	0	1	3	0	1	0.0%	0	0	0	0	0	0
HEPATITIS B (PREGNANCY) PRENATAL	4	6	11	5	7	5	6	-20.0%	1	0	2	1	3	2
HEPATITIS B ACUTE	1	1	0	3	2	1	1	0.0%	0	0	0	0	0	0
HEPATITIS B CHRONIC INFECTION	17	12	4	18	16	11	16	-45.5%	3	1	1	2	0	1
HEPATITIS C ACUTE	0	0	0	1	0	0	0	0.0%	0	0	0	0	0	0
HEPATITIS C CHRONIC INFECTION	114	142	129	134	160	131	134	-2.3%	38	8	8	7	2	6
MENINGOCOCCAL DISEASE	0	0	2	0	0	0	0	0.0%	0	0	0	0	0	0

MOTT	n/a	n/a	n/a	1	11	14		6	57.1%	4		3	0	0	0	1
MUMPS	0	0	1	1	0	0		0	0.0%	0		0	0	0	0	0
RABIES ANIMAL	1	1	0	0	1	1		1	0.0%	0		1	0	0	0	0
RABIES POST EXPOSURE PROPHYLAXIS	0	0	0	12	16	11		0	100.0%	3		3	2	0	0	1
TOXIC SHOCK (STAPH) SYNDROME	0	0	0	0	0	1		0	100.0%	0		0	0	0	0	0
VARICELLA (CHICKENPOX)	n/a	11	20	92	52	27		36	-33.3%	8		1	8	3	0	3

*Pertussis:* St. Charles County has been battling an increase in pertussis cases since May 2008 (see graph below). Pertussis is a vaccine preventable disease. Pertussis cases started to increase in the summer of 2008 among school aged children in our county and surrounding counties. This increase continued throughout 2008 and through the beginning of 2009. The majority of the cases are fully vaccinated.

