



St. Charles County Annual Communicable Disease Report Department of Community Health and the Environment 2010



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 880 reportable cases in St. Charles County in 2010. This is a 17.5% reduction from the previous 5 year median. Using 2009 St. Charles County population data of 353,076 people this gives an incidence rate of 249.2 people per 100,000 population.

Enteric Illnesses: The 2010 reported enteric cases were similar to previous years, only a 2.8% increase from the previous 5 year median. The most noteworthy decline was Shigellosis and Giardia cases. In 2007 we had widespread Shigellosis outbreak which inflated our previous 5 year median. In 2010 we had 10 reported Shigellosis cases. Cryptosporidiosis cases were up 70.6% from previous years median. Most of these cases had onset the end of the summer and although we had no reported outbreaks in our county, there were several cases linked to the community wide outbreak in St. Louis County (see Graph 1).

Respiratory: Overall respiratory illnesses were down 43.8% from the previous 5 year median. We saw an increase in Strep Group A Invasive and Strep Pneumonia (<5 years invasive and drug-resistant). There was a decrease in Invasive Haemophilus Influenza and Legionellosis. I think the most noteworthy disease is the 139% decrease in Pertussis cases. Despite the fact that there was a community wide outbreak of pertussis in the region we only saw 23 cases in 2010 (see Graph 2).

Vectorborne and Zoonotic: There were 14 cases of Vectorborne and Zoonotic cases in 2010; this is similar to what we have seen in 2008 and 2009.

Tuberculosis and Latent TB Infections (LTBI): There were 4 cases of TB reported in St. Charles County for 2010. This is the highest number we have seen in the last 5 years. 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.

	Totals: Year						Previous 5 Year Median	% Change From 5 Yr Median	2010 Rate Per 100000	Last 4 Months				Mean from Last 4 Months
	2005	2006	2007	2008	2009	2010				9	10	11	12	
Enteric, Food and Waterborne														
CAMPYLOBACTERIOSIS	28	55	48	36	34	47	36	23.4%	13.31	2	6	5	3	4
CRYPTOSPORIDIOSIS	7	10	21	10	12	34	10	70.6%	9.63	11	5	0	0	4
E COLI SHIGA TOXIN POSITIVE	4	13	7	10	10	8	10	-25.0%	2.27	0	0	2	0	1
E. COLI O157 H7	9	17	9	10	2	6	9	-50.0%	1.70	0	0	1	1	1
GIARDIASIS	33	40	36	31	41	17	36	-111.8%	4.81	2	3	1	2	2
HEPATITIS A ACUTE	1	6	1	4	2	0	2	0.0%	0.00	0	0	0	0	0
LISTERIOSIS	0	0	0	0	0	1	0	100.0%	0.28	0	0	0	0	0
SALMONELLOSIS	43	39	46	47	34	54	43	20.4%	15.29	1	7	4	4	4

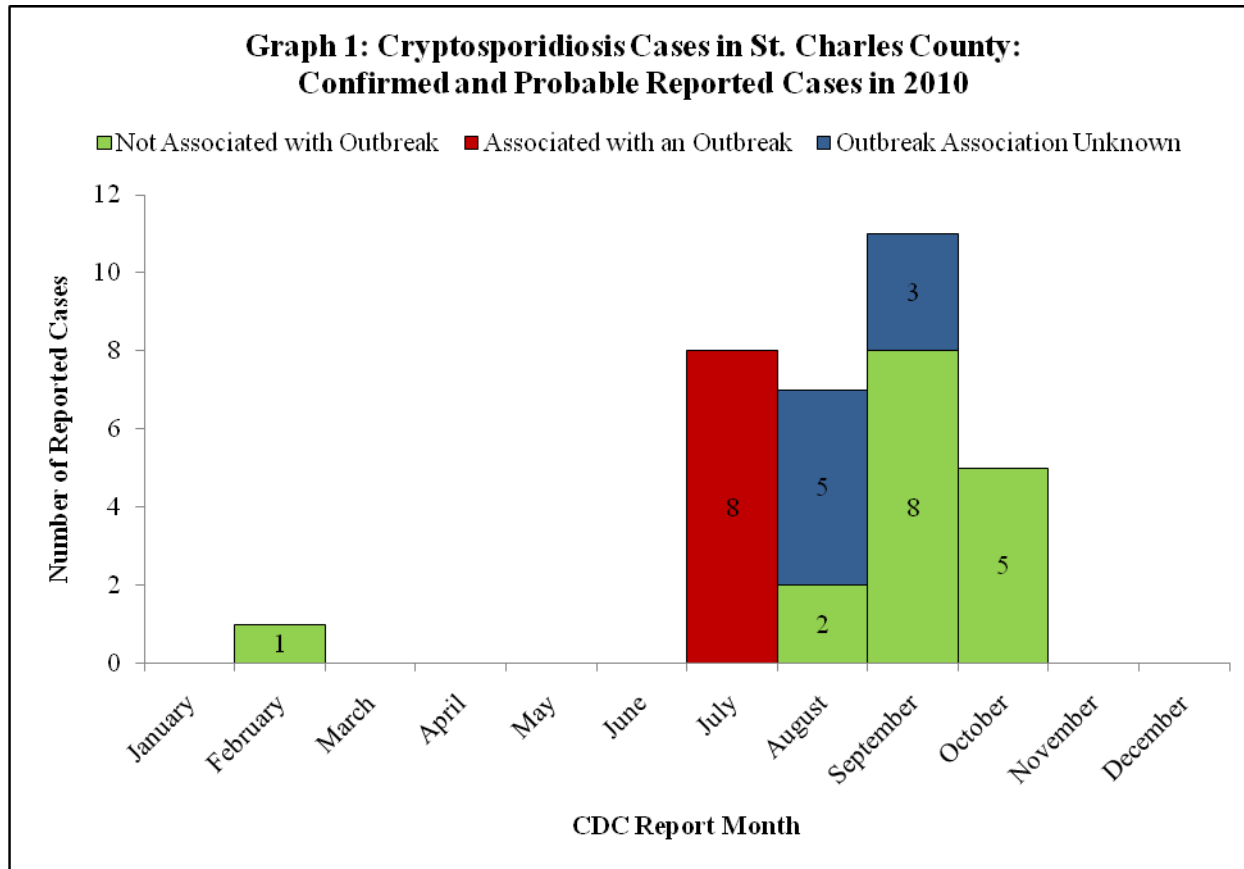
Data Source: Missouri Depart. Of Health and Senior Services (MOHSIS)

SHIGA TOXIN POSITIVE (NON E. COLI, UNK)	0	1	1	2	0	0	1	0.0%	0.00	0	0	0	0	0
SHIGELLOSIS	13	4	100	22	21	10	21	-110.0%	2.83	0	1	0	0	0
YERSINIOSIS	0	1	0	0	0	0	0	0.0%	0.00	0	0	0	0	0
Enteric total	138	186	269	172	156	177	172	2.8%	50.13	16	22	13	10	15
Respiratory and Direct Contact														
HAEMOPHILUS INFLUENZAE, INVASIVE	4	5	0	6	3	2	4	-100.0%	0.57	0	0	1	0	0
LEGIONELLOSIS	1	0	3	3	4	2	3	-50.0%	0.57	0	1	0	0	0
PERTUSSIS	55	20	9	85	85	23	55	-139.1%	6.51	0	1	10	3	4
STREP DISEASE, GROUP A INVASIVE	7	3	5	11	6	15	6	60.0%	4.25	0	1	1	3	1
STREP PNEUMONIAE, <5 YEARS, INVASIVE	1	0	3	1	4	3	1	66.7%	0.85	0	1	0	0	0
STREP PNEUMONIAE, DRUG-RESISTANT	1	1	1	3	9	3	1	66.7%	0.85	0	0	0	0	0
Respiratory Total	69	29	21	109	111	48	69	-43.8%	13.59	0	4	12	6	6
Vectorborne and Zoonotics														
ANAPLASMA PHAGOCYTOPHILUM	0	0	1	0	0	1	0	100.0%	0.28	0	0	0	0	0
DENGUE FEVER	0	0	1	0	0	2	0	100.0%	0.57	0	0	0	0	0
EHRlichia CHAFFEENSIS	1	0	2	6	8	6	2	66.7%	1.70	1	0	0	0	0
EHRlichiosis ANAPLASMOSIS UNDETERMINED	0	0	0	3	0	0	0	0.0%	0.00	0	0	0	0	0
LYME	0	0	0	0	3	0	0	0.0%	0.00	0	0	0	0	0
MALARIA	1	0	0	0	0	0	0	0.0%	0.00	0	0	0	0	0
NEUROINVASIVE WEST NILE	0	1	1	1	0	1	1	0.0%	0.28	1	0	0	0	0
NON NEUROINVASIVE WEST NILE	1	0	0	1	0	0	0	0.0%	0.00	0	0	0	0	0
Q FEVER ACUTE	0	1	2	1	0	0	1	0.0%	0.00	0	0	0	0	0
Q FEVER CHRONIC	0	1	0	0	0	0	0	0.0%	0.00	0	0	0	0	0
ROCKY MOUNTAIN SPOTTED FEVER	1	3	1	3	5	4	3	25.0%	1.13	1	0	0	0	0
TULAREMIA	0	0	0	0	0	0	0	0.0%	0.00	0	0	0	0	0
Vectorborne and Zoonotics Total	4	6	8	15	16	14	8	42.9%	3.97	3	0	0	0	1
Other Conditions														
ANIMAL BITES	279	329	324	402	454	419	329	21.5%	118.67	33	32	31	23	30
COCCIDIOIDOMYCOSIS	0	1	1	0	2	1	1	0.0%	0.28	0	0	0	0	0
CREUTZFELDT-JAKOB DISEASE (CJD)	0	1	0	0	1	0	0	0.0%	0.00	0	0	0	0	0
HEMOLYTIC UREMIC SYNDROME	0	0	1	3	0	0	0	0.0%	0.00	0	0	0	0	0
HEPATITIS B (PREGNANCY) PRENATAL	6	11	5	7	5	7	6	14.3%	1.98	0	0	0	0	0
HEPATITIS B ACUTE	1	0	3	2	1	3	1	66.7%	0.85	0	0	0	0	0
HEPATITIS B CHRONIC INFECTION	12	4	18	16	9	6	12	-100.0%	1.70	0	0	1	0	0
HEPATITIS C ACUTE	0	0	0	0	0	0	0	0.0%	0.00	1	2	0	0	1
HEPATITIS C CHRONIC INFECTION	134	123	140	161	124	82	134	-63.4%	23.22	1	2	0	0	1
LTBI	75	81	155	95	104	64	95	-48.4%	18.13	6	4	3	3	4
MENINGOCOCCAL DISEASE	0	2	0	0	0	2	0	100.0%	0.57	0	0	0	0	0
MOTT	0	0	1	11	10	0	1	0.0%	0.00	0	0	0	0	0
MUMPS	0	1	1	0	0	0	0	0.0%	0.00	0	0	0	0	0
RABIES ANIMAL	1	0	0	1	1	1	1	0.0%	0.28	0	0	0	0	0
RABIES POST EXPOSURE PROPHYLAXIS	0	0	12	16	11	29	11	62.1%	8.21	3	1	2	2	2

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

TB DISEASE	3	1	2	1	1	4	█	1	75.0%	1.13	█	0	0	1	0	0
TOXIC SHOCK (STAPH) SYNDROME	0	0	0	0	1	0	█	0	0.0%	0.00	█	0	0	0	0	0
VARICELLA (CHICKENPOX)	14	20	93	52	27	23	█	27	-17.4%	6.51	█	1	1	0	0	1

Cryptosporidiosis: St. Charles County saw a 70.6% increase in reported *Cryptosporidiosis* cases in 2010 compared the the previous 5 year median. Of these 34 cases 8 (23.5%) were linked to the St. Louis County community wide outbreak. Sixteen cases (47.1%) had no know outbreak asociation and the remaining 8 cases (23.5%) were unknwn.



Pertussis: The number of Pertussis cases reported in 2010 was down 139.1% from the previous 5 year median. This was surprising given that these 23 cases represented only 7.4% of the cases seen in the region (region includes St. Louis City, St. Louis County, Jefferson, Lincoln, Warren, Franklin and St. Charles County). In past years St. Charles has seen on average 17.6% of the cases in the region.

