

*EPI Gram* is a monthly publication of the Stark County Public Health Infrastructure Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation and, at any given time, data may fluctuate from month to month for a specific category.

## Monthly Highlight:

**Mosquito-borne disease.** With the warm summer months comes an increase in mosquito-borne diseases. In July 2011, Stark County had one case of confirmed LaCrosse Virus Disease (LCVD). LaCrosse is transmitted by the bite of an infected mosquito to a susceptible host. The affected individual may initially have fever, headache, nausea, vomiting, and tiredness. However, severe disease may occur, particularly in children, and result in neuroinvasive disease. LCVD is endemic in Ohio and has been previously reported in Stark County. The individual affected this year in Stark County was a child who was hospitalized and is now recovering.

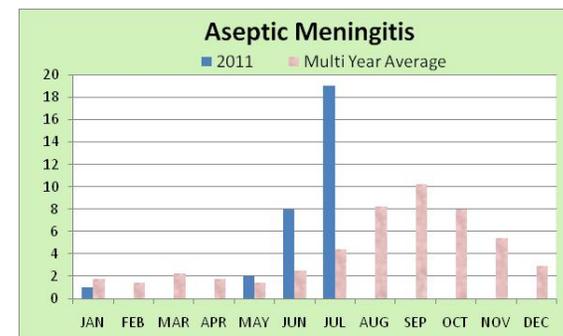


At this time, there have been no human cases of West Nile Virus (WNV), another Mosquito-borne disease, documented in Stark County. However, at least 6 positive pools of mosquitoes have been identified through testing which provides ample evidence that WNV is present in our community.

The mosquitoes that transmit WNV and LCVD have different habits. The mosquitoes that transmit LCVD tend to be very active and aggressive biters in the daytime when children who are most susceptible to the disease are outside. In contrast, the primary mosquito that transmits WNV tends to be very active at dawn and dusk. Prevention from all mosquito-borne diseases includes using insect repellents, wearing long sleeves, long pants and socks, avoiding areas with high mosquito activity and eliminating mosquito breeding harborage.

**Aseptic/Viral Meningitis** presents with seasonal trends. Since the recording of monthly trends began, September, as shown in the graph to the right, has traditionally been the month with the highest number of reported cases. There was an unexpected number of cases of viral meningitis in Stark County in July 2011. These 19 cases represent the highest number of recorded cases for the month of July.

During the summer and fall the most common cause of viral meningitis both nationally and in Stark County is Enterovirus (include enteroviruses, coxsackieviruses, and echoviruses). Most people infected with enteroviruses either have no symptoms or only get a cold, rash, or mouth sores with low-grade fever. In addition, only a small number of people with enterovirus infections develop meningitis. Other viral infections that have lead to meningitis in Stark County residents include herpesvirus, such as herpes simplex viruses and varicella-zoster virus—the cause of chickenpox and shingles.



**Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.**

	July 2011				August 2011			
	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category
Pollen Count	45	10	15	N/A	150	5	48	N/A
Mold Count	14,620	2,770	5,460	1 High	12,990	3,680	6,405	10 Moderate
Air Quality Index	105	38	61	1 Unhealthy for sensitive groups	71	26	42	4 Moderate

\*\*See the following websites for updated Air Quality Index and mold index terminology and color-coding <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> [https://pollen.aaaai.org/nab/index.cfm?p=reading\\_charts](https://pollen.aaaai.org/nab/index.cfm?p=reading_charts)  
Data source for this table is the Air Quality Division of the Canton City Health Department.

**Table 2 Summaries of Select Vital Statistics for Stark County**

	July 2011	YTD 2011	2010 Total
Live Births	371	2,505	4521
Births to Teens	44	240	457
Deaths	319	2,574	4102

**Table 3 Stark County Crude Birth and Death Rates**

	2004	2005	2006	2007	2008
Birth	1172*	1163*	1191*	1190*	1166*
Death	971*	1022*	1000*	1035*	1067

\*Source: Ohio Department of Health Data Warehouse. Rates are per 100,000 population.

If you have any questions, including how to receive copies of this report, please contact Christina Henning at 330.489.3327 or [Chenning@cantonhealth.org](mailto:Chenning@cantonhealth.org).

**Table 4: 2011 Jurisdictional Summary of Reportable Diseases in Stark County, OH**

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	July	YTD	July	YTD	July	YTD	July	YTD	July	YTD
Campylobacteriosis		2		4	1	3	4	15	5	24
Chlamydia infection	17	73	51	408	10	72	55	268	133	821
Creutzfeldt-Jakob Disease								2	0	2
Cryptosporidiosis			1	3			1	6	2	9
E Coli (STP) NOT O157:H7								1	0	1
E Coli (STP) O157:H7						1		1	0	2
Ehrlichiosis				1					0	1
Giardiasis		1	4	9		2	5	30	9	42
Gonococcal infection	6	50	22	210	2	21	20	71	50	352
Haemophilus influenzae		1		1			1	3	1	5
Hepatitis A								1	0	1
Hepatitis B- Perinatal Infection								1	0	1
Hepatitis B- Acute								1	0	1
Hepatitis B-Chronic		1		6				9	0	16
Hepatitis C - acute				1		2		1	0	4
Hepatitis C - chronic	4	12	9	52	6	21	15	90	34	175
Influenza-associated hospitalizations		8		41		12		79	0	140
LaCrosse Virus							1	1	1	1
Legionellosis					1	1	1	2	2	3
Listeriosis								1	0	1
Lyme Disease	1	1	1	1			3	6	5	8
Malaria							1	1	1	1
Meningitis - aseptic/viral	2	2	5	10	6	9	6	9	19	30
Meningitis - bacterial (Not N. meningitidis)				1	1	1			1	2
Meningococcal disease -								1	0	1
Mycobacterial disease-Not TB		2		2		1		9	0	14
Pertussis							1	9	1	9
Rocky Mountain Spotted Fever		1						1	0	2
Salmonellosis		1		1			3	15	3	17
Streptococcal - Group A -Invas				4				11	0	15
Streptococcal -Group B in Newborn				1					0	1
Streptococcus Toxic Shock STSS				1				1	0	2
Strep pneumo resistance unk or non-resistant		2		4		4	1	15	1	25
Strep pneumo antibiotic resistant/intermediate		2		2		2		7	0	13
Syphilis, Pr & Secondary				4					0	4
Syphilis, Total		1		5				1	0	7
Varicella		3		1		1		8	0	13
Vibriosis			1	1					1	1

Source: Ohio Disease Reporting System

**Table 5 – 2011 Summary Table of Diseases Reported in the previous 5 years within Stark County, OH.  
(Provisional Data)**

	July-11	YTD 2011	YTD 2010	All of 2010	5 Yr annual average	Rate
Campylobacteriosis	5	24	28	50	52	13.7
Chlamydia	133	821	770	1334	1188	313.12
Coccidioidomycosis	0	0	0	0	1	0.26
Creutzfeldt-Jakob Disease	0	2	0	0	3	0.7
Cryptosporidiosis	2	9	12	23	22	5.8
Cytomegalovirus, Congenital	0	0	0	0	1	0.26
Dengue	0	0	0	1	1	0.26
E. coli - enterohemorrhagic (STP) NOT O157:H7	0	1	0	1	2	0.53
E. coli - enterohemorrhagic (STP) O157:H7	0	2	3	3	3	0.9
E coli , STP, Unknown	0	0	0	1	1	0.37
Ehrlichiosis (Anaplasmosis)	0	1	0	0	1	0.26
Encephalitis - post other infection	0	0	0	0	1	0.26
Encephalitis - primary viral	0	0	0	0	2	0.53
Giardiasis	9	42	31	69	49	12.86
Gonorrhea	50	352	220	409	527	138.83
Haemo. Influz., Bacteria	1	5	6	8	6	1.63
Hemolytic Uremic Syndrome	0	0	0	0	2	0.53
Hepatitis A	0	1	0	0	5	1.19
Hepatitis B - Perinatal Infection	0	1	0	2	4	1.05
Hep B, Acute	0	1	4	5	5	1.21
Hep B, Chronic	0	16	27	38	39	10.38
Hep C, Acute	0	4	1	4	4	1.05
Hep C, Past or Present	34	175	147	239	232	61.09
Herpes, Congenital	0	0	0	0	1	0.26
Influenza-Hospitalized	0	140	1	7	N/A	N/A
LaCrosse virus disease	1	1	0	2	2	0.53
Legionellosis	2	3	8	16	15	3.9
Listeriosis	0	1	0	1	3	0.79
Lyme Disease	5	8	2	4	3	0.79
Malaria	1	1	2	2	3	0.66
Meningitis, Asep	19	30	16	33	38	9.91
Meningitis Bac.	1	2	2	2	3	0.74
Meningococcal Dis.	0	1	1	2	1	0.32
Mumps	0	0	1	1	2	0.4
Mycobacterial disease - other than tuberculosis	0	14	21	33	22	5.69
Pertussis	1	9	13	106	35	9.22
Rheumatic fever	0	0	0	0	1	0.26
Q Fever, Chronic	0	0	0	0	0	0
Rocky Mountain Spotted	0	2	0	1	1	0.26
Salmonellosis	3	17	26	34	41	10.8
Shigellosis	0	0	4	4	51	13.33
Strep Inv A GAS	0	15	4	12	10	2.53
Strep B Newborn	0	1	2	4	4	0.95
Strep toxic shock (STSS)	0	2	0	0	2	0.4
Strep pneumo - invasive antibiotic resistance unk or non-resistant	1	25	13	25	28	7.48
Streptococcus pneumo - invasive antibiotic resistant/intermediate	0	13	11	20	24	6.27
Syphilis, Total	0	7	7	10	14	3.74
Syphilis, Pri & Secondary	0	4	4	4	4	1.16
Toxic shock syndrome (TSS)	0	0	0	1	2	0.4
Typhoid Fever	0	0	0	0	1	0.26
Varicella#	0	13	25	57	119	31.41
Vibriosis	1	0	0	0	0	0
West Nile Virus	0	0	0	0	2	0.53
Yersiniosis	0	0	0	0	3	0.88

This report includes confirmed, probable and suspect cases, as reported in the Ohio Disease Reporting System (ODRS).

\*Annual Rate per 100,000 population is derived from a five year average of disease incidence and on a total population of 379,466