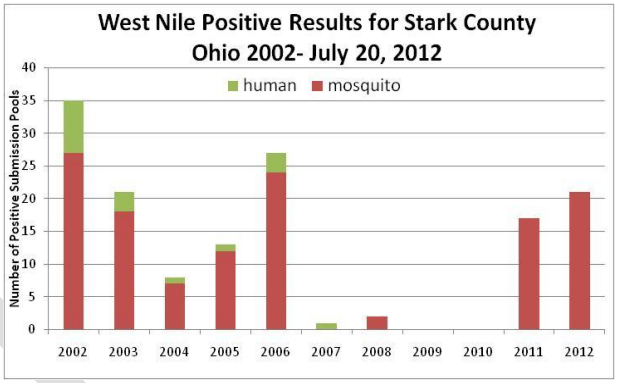
EPI GRAM June, 2012

A Monthly Publication of the Stark Public Health Infrastructure Coalition

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: West Nile Virus and Salmonella



West Nile Virus: The Ohio Department of Health (ODH) reports that an "earlier than normal increase in WNV activity this summer, coupled with continuing hot and dry weather, contribute to an increased risk for WNV transmission." The increased activity, as indicated by positive mosquito testing, has also been elevated in Stark County. As can be seen in the graph to the right, the number of positive test results for mosquitoes in 2012 has surpassed 8 of the previous 10 years. The number of pools (a collection of mosquitoes) testing positive tend to peak in late July or early August. Human cases tend to peak shortly thereafter, throughout the month of August. Physicians are advised to keep West Nile Virus and other mosquito borne diseases in their rule out diagnosis in patients presenting with a clinically compatible illness, which may include, fever, gastrointestinal symptoms, ataxia and extrapyramidal signs, optic neuritis, seizures, weakness, and a change in mental status. Additional clinical presentations and other informaiton for WNV can be found on the Centers for Disease Control and Prevention (CDC) website at: http://www.cdc.gov/ncidod/dvbid/westnile/clinicians/clindesc.htm

Salmonella: There is a slight elevation in the number of Stark County residents testing positive for Salmonella. Through serotyping and PFGE testing sporadic cases in Stark County are being linked to multistate outbreaks. This year cases have a large variety of serotypes of Salmonella, including all of the following: B:i:- (monophasic), Braenderup, Enteritidis, Hartford, Infantis, Javiana, Mississippi, Newport, Newport Group C, Paratyphi B, var L - Tartrate+, Saint Paul, Thompson, Typhimurium, Urbana. Through administration of lengthy interviews, information collected on local cases are sent to the CDC for inclusion in their multistate investigations. Rapid diagnosis and testing of symptomatic individuals greatly aids public health in quickly identifying the source of the illness and eliminating or reducing further exposures. Additional information on Salmonella outbreaks can be found at http://www.cdc.gov/salmonella/outbreaks.html.

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

	June 2012				July 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	135	10	30	N/A	45	10	15	N/A
Mold Count	11,140	980	3,680	**4 Moderate**	14,620	2,770	5,460	**1 High**
Air Quality Index	164	27	49	**1 Unhealthy**	105	38	61	**1 Unhealthy for Sensitive Groups**

**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

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

	May 2012	YTD 2012	2011
Live Births	379	2088	4075
Births to Teens	44	209	399
Deaths	345	2161	4110

Table 3 Stark County Crude Birth and Death Rates

	2006	2007	2008	2009	2010
Birth	1191*	1190*	1166*	1139	1085
Death	1000*	1035*	1055*	1072	1094

*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 or Lauren Drinkard at 330.493.9928 or Drinkardl@starkhealth.org. .

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

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	June	YTD	June	YTD	June	YTD	July	YTD	July	YTD
Brucellosis								1	0	1
Campylobacteriosis	1	2	6	9		1	6	14	13	26
Chlamydia infection	4	69	50	354	11	63	41	243	106	729
Coccidioidomycosis								1	0	1
Cryptosporidiosis		2	2	3		1	1	7	3	13
Dengue								1	0	1
Giardiasis			1	3			1	13	2	16
Gonococcal infection		14	28	162	3	28	16	78	47	282
Haemophilus influenzae				1				2	0	3
Hepatitis A		1		1				1	0	3
Hepatitis B - Perinatal Infection				1					0	1
Hepatitis B - acute				1				1	0	2
Hepatitis B (including delta) - chronic	1	1	1	8	1	2	2	11	5	22
Hepatitis C - acute				1					0	1
Hepatitis C - chronic	3	17	7	41	1	15	5	46	16	119
Influenza-associated hospitalization	1	1		4		2	1	10	2	17
Legionellosis - Legionnaires' Disease				2				2	0	4
Lyme Disease		1				1	2	6	2	8
Meningitis - aseptic/viral		1	1	1			2	6	3	8
Meningitis - bacterial (Not N. meningitidis)				2				1	0	3
Mycobacterial disease - other than tuberculosis	1	1		2		1		7	1	11
Pertussis							1	3	1	3
Salmonellosis			1	1	1	1	6	16	8	18
Shigellosis					1	1			1	1
Streptococcal - Group A -invasive				3		2		8	0	13
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant		3	2	8		1		25	2	37
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	1	2		2				5	1	9
Syphilis, Total		1		2		3				6
Syphilis, Primary and Secondary										0
Varicella		3		5		1		11	0	20

Source: Ohio Disease Reporting System, downloaded 07/12/2012.

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

	June-12	YTD 2012	YTD 2011	All of 2011	5 Yr annual average	Rate
Anaplasmosis					0.2	0.05
Brucellosis		1			0	0
Campylobacteriosis	13	26	19	40	50	13.31
Chlamydia	106	729	688	1457	1269.6	338.03
Coccidioidomycosis		1			0	0
Creutzfeldt-Jakob Disease (CJD)			2	2	1.6	0.43
Cryptosporidiosis	3	13	7	16	21.2	5.64
Cytomegalovirus (CMV), Congenital					0.4	0.11
Dengue		1		2	0.6	0.16
Encephalitis, Post Other Infection					0.2	0.05
Encephalitis, Primary Viral					0.8	0.21
Escherichia coli , Shiga Toxin-Producing, Not O157:H7			1	2	1	0.27
Escherichia coli , Shiga Toxin-Producing, Unknown Serotype					1.4	0.37
Escherichia coli O157:H7			2	2	2	0.53
Ehrlichiosis-Ehrlichia chaffeensis			1	1	0.2	0.05
Giardiasis	2	16	33	62	52.2	13.9
Gonorrhea	47	282	302	613	540.4	143.88
Haemophilus influenzae , Invasive Disease		3	4	8	7	1.86
Hemolytic Uremic Syndrome (HUS)					0.6	0.16
Hepatitis A		3	1	1	2.4	0.64
Hepatitis B - Perinatal Infection		1		2	**	**
Hepatitis B, Acute		2	1	2	3.4	0.91
Hepatitis B, Chronic	5	22	16	23	36.4	9.69
Hepatitis C, Acute		1	4	6	4.2	1.12
Hepatitis C, Chronic	16	119	141	279	239.8	63.85
Hepatitis E				1	0.2	0.05
Herpes, Congenital					0.4	0.11
Influenza A - novel virus infection					0.4	0.11
Influenza-associated hospitalization	2	17	140	143	**	**
LaCrosse virus disease (other California serogroup virus disease)				1	0.6	0.16
Legionellosis		4	1	9	14.2	3.78
Listeriosis			1	2	2.4	0.64
Lyme Disease	2	8	3	12	4.2	1.12
Malaria				1	1.2	0.32
Meningitis, Aseptic	3	8	11	63	40.8	10.86
Meningitis, Bacterial, Not Neisseria meningitidis		3	1	3	2.6	0.69
Meningococcal Disease			1	1	1.2	0.32
Mumps					0.8	0.21
Mycobacterial disease - other than tuberculosis	1	11	14	23	24	6.39
Pertussis	1	3	8	11	34	9.05
Q Fever					0	0
Rheumatic Fever					0.2	0.05
Rocky Mountain Spotted Fever (RMSF)			2	2	0.6	0.16
Salmonellosis	8	18	14	32	36.4	9.69
Shigellosis	1	1		1	50	13.31
Streptococcal Disease, Group A, Invasive		13	15	22	10.6	2.82
Streptococcal Disease, Group B, in Newborn			1	3	3.6	0.96
Streptococcal Toxic Shock Syndrome (STSS)			2	2	1	0.27
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	2	37	24	37	30.8	8.2
Strep. pneumoniae - invasive antibiotic resistant/intermediate	1	9	13	17	20.2	5.38
Syphilis, Total		6	7	13	11.2	2.98
Syphilis, Primary and Secondary			4	10	4.2	1.12
Toxic Shock Syndrome (TSS)					0.6	0.16
Tuberculosis		1	1	2	2.6	0.69
Varicella		20	14	33	68.6	18.26
Vibriosis - other (not cholera)				1	0.2	0.05
Yersiniosis		1			1.2	0.32

Source: Ohio Disease Reporting System, downloaded 07/12/2012. Rates are per 100,000 population.