

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: Flu activity

The 2012-2013 Influenza Season officially started on 09/30/2012, the beginning of MMWR week 40. Our state and federal partners track seasonal influenza from week 40 through week 20, which will end on 05/18/2013. In Stark County heightened surveillance falls within a similar period. Stark county data sources for seasonal influenza include:

1. Reports of Influenza-associated hospitalizations,
2. Emergency Department and Stat Care patient visits with a chief complaint consistent with influenza,
3. Absentee data from a variety of school districts throughout the county,
4. Sales of Over-The-Counter medications associated with influenza use and sales of Thermometers,
5. Positive tests for influenza provided by area laboratories and physicians offices, and
6. Sentinel Provider reports. Sentinel providers are select physicians that report influenza-like-illness to the Centers for Disease Control and Prevention on a weekly basis.

Copies of local weekly reports will soon be on the web at: <http://www.cantonhealth.org/ophi/?pg=244> and http://www.starkflu.org/ViewPage.aspx?pageName=Weekly_Flu_Updates&CurNavId=30. An email listserv provides weekly emailed copies; to be included on the listserv, send your request to Chenning@cantonhealth.org.

Of special note this year, surveillance indicators have shown an unusually elevated number of Influenza B positive patients, including 11 of the 12 influenza-hospitalizations reported since 09/30/2012. This is unusual in Stark County and the United States as Influenza B is typically associated with the late winter months and is rare in the fall. Additionally, one hospitalized and one non-hospitalized patient have been confirmed with Influenza B/Brisbane-like (a B/Victoria lineage), a serotype that is not a component of the 2012/2013 seasonal vaccine. The patients have been from all age groups and have no geographical clustering in Stark County.

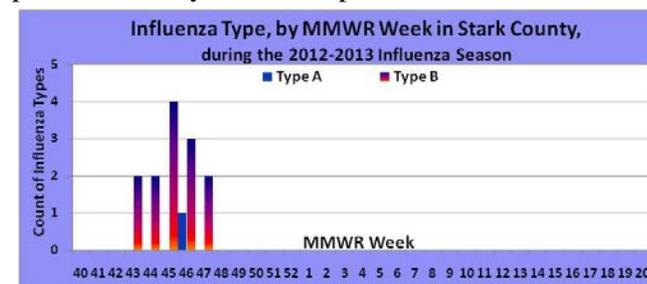
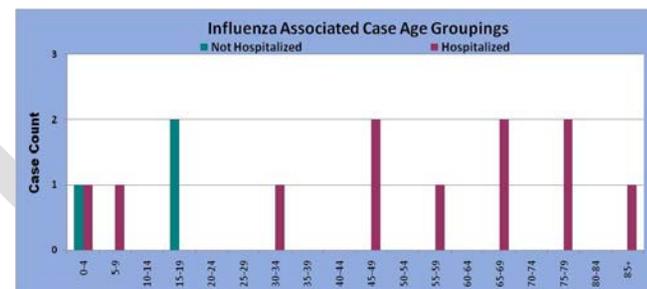


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	October 2012				November 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	Reported seasonally, not currently available				Reported seasonally, not currently available			
Mold Count	Reported seasonally, not currently available				Reported seasonally, not currently available			
Air Quality Index	51	19	29	1 Moderate	38	7	23	All Good

**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

	October 2012	YTD 2012	2011
Live Births			4075
Births to Teens			399
Deaths			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	
	Oct	YTD	Oct	YTD	Oct	YTD	Oct	YTD	Oct	YTD
	Brucellosis		0		0		0		1	0
Campylobacteriosis		4	3	23		2	3	26	6	55
Chlamydia infection	12	110	76	591	12	119	57	479	157	1299
Coccidioidomycosis		0		0		0		1	0	1
Cryptosporidiosis		4		5		2	2	24	2	35
Dengue		0		0		0		1	0	1
E Coli Not O157:H7		0		0		0	1	1	1	1
E Coli O157:H7		0		0		0		2	0	2
E Coli Unk Serotype		1		0		0		0	0	1
Giardiasis		0		5		0	4	28	4	33
Gonococcal infection	2	22	41	314	10	57	13	140	66	533
Haemophilus influenzae		0		1		0		4	0	5
Hepatitis A		1		1		0		1	0	3
Hepatitis B - Perinatal Infection		0		1		0		2	0	3
Hepatitis B - acute		0	1	2		0		1	1	3
Hepatitis B - chronic		1	1	9		3	2	18	3	31
Hepatitis C - acute	1	2		4		1	1	1	2	8
Hepatitis C - chronic		23	5	54	2	27	10	87	17	191
Influenza-associated hospitalization		1	1	5		2	1	12	2	20
LaCrosse Virus Disease		0		0		0		1	0	1
Legionnaires' Disease		0	1	5		0		8	1	13
Lyme Disease		1		0		1	2	10	2	12
Meningitis - aseptic/viral	1	2	2	6	1	4		14	4	26
Meningitis - bacterial (Not N. meningitidis)		0		2		0		1	0	3
Mycobacterial disease -		2	1	6		1	1	13	2	22
Pertussis	1	1	1	2		0		9	2	12
Salmonellosis		1	2	5		1	3	27	5	34
Shigella	3	3		0		1		2	3	6
Streptococcal - Group A -invasive		1		4		2		10	0	17
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant		4		11	1	2	1	32	2	49
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate		2	1	3	1	1		7	2	13
Syphilis, Total		1		2	1	5			1	8
Syphilis, Primary and Secondary										
Typhoid Fever		0		0		0		1	0	1
Varicella		4	2	7		4	2	16	4	31
West Nile Virus		0		1		0		0	0	1
Yersiniosis		0		0		0		2	0	2

Source: Ohio Disease Reporting System, downloaded 11/18/2012.

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

(Provisional Data)	Sep 2012	YTD 2012	YTD 2011	All of 2011	5 Yr annual average	Rate
Anaplasmosis					0.2	0.05
Brucellosis		1			0	0
Campylobacteriosis	6	55	35	40	50	13.31
Chlamydia	157	1299	1212	1457	1269.6	338.03
Coccidioidomycosis		1			0	0
Creutzfeldt-Jakob Disease (CJD)			2	2	1.6	0.43
Cryptosporidiosis	2	35	14	16	21.2	5.64
Cytomegalovirus (CMV), Congenital					0.4	0.11
Dengue		1	2	2	0.6	0.16
Encephalitis, Post Other Infection					0.2	0.05
Encephalitis, Primary Viral					0.8	0.21
Escherichia coli , STP, Not O157:H7	1	1	2	2	1	0.27
Escherichia coli , STP, Unk Serotype		2	2	2	1.4	0.37
Escherichia coli O157:H7		1			2	0.53
Ehrlichiosis-Ehrlichia chaffeensis			1	1	0.2	0.05
Giardiasis	4	33	57	62	52.2	13.9
Gonorrhea	66	533	514	613	540.4	143.88
Haemophilus influenzae , Invasive Disease		5	7	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		3	2	2	**	**
Hepatitis B, Acute	1	3	1	2	3.4	0.91
Hepatitis B, Chronic	3	31	19	23	36.4	9.69
Hepatitis C, Acute	2	8	5	6	4.2	1.12
Hepatitis C, Chronic	17	191	215	251	239.8	63.85
Hepatitis E			1	1	0.2	0.05
Herpes, Congenital					0.4	0.11
Influenza A - novel virus infection					0.4	0.11
Influenza-associated hospitalization	2	20	140	143	**	**
LaCrosse virus disease		1	1	1	0.6	0.16
Legionellosis	1	13	6	9	14.2	3.78
Listeriosis			1	2	2.4	0.64
Lyme Disease	2	12	11	12	4.2	1.12
Malaria			1	1	1.2	0.32
Meningitis, Aseptic	4	26	58	63	40.8	10.86
Meningitis, Bacterial, Not Neisseria meningitidis		3	2	3	2.6	0.69
Meningococcal Disease			1	1	1.2	0.32
Mumps					0.8	0.21
Mycobacterial disease - other than tuberculosis	2	22	20	23	24	6.39
Pertussis	2	12	10	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	5	34	27	32	36.4	9.69
Shigellosis	3	6	1	1	50	13.31
Streptococcal Disease, Group A, Invasive		17	19	22	10.6	2.82
Streptococcal Disease, Group B, in Newborn			2	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	49	32	37	30.8	8.2
Strep. pneumo. - invasive antibiotic resistant/intermediate	2	13	15	17	20.2	5.38
Syphilis, Total	1	8	8	13	11.2	2.98
Syphilis, Primary and Secondary			4	10	4.2	1.12
Toxic Shock Syndrome (TSS)					0.6	0.16
Tuberculosis		2	1	2	2.6	0.69
Typhoid Fever		1				
Varicella	4	31	26	33	68.6	18.26
Vibriosis - other (not cholera)			1	1	0.2	0.05
West Nile Virus		1			0	0
Yersiniosis		2			1.2	0.32

Source: Ohio Disease Reporting System, downloaded 11/18/2012. Rates are per 100,000 population and based on 5 year average. ** Historical information unavailable.