

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: 2012 Outbreak Surveillance Summary and Births vs STI data.

2012 Outbreak Surveillance Summary: In 2012, thirteen outbreaks were reported in Stark County, representing a significant increase from the four reported in 2011. Of the outbreaks, one each was identified as *Streptococcus pyogenes* in a skilled nursing facility, *Campylobacter* in a manufacturing facility and *Shigella* from an overseas bus tour; 2 each were from *Pediculus* in a community and school setting, Scabies in a day care and retirement center, and an unconfirmed organism in a skilled nursing facility and school setting; 4 outbreaks were confirmed as noro-like virus with exposures in skilled nursing/medical facilities and on a cruise ship. Exposure in all of the outbreaks, except those in the manufacturing setting and the bus trip, were determined to be due to person-to-person spread. The manufacturing outbreak was likely due to worksite exposure to animals known to transmit *Campylobacter* and in the bus tour, there was likely a foodborne source of illness.

Birth versus STI data: From 2007 to 2012, the total number of births in Stark County residents has decreased 11% and in the same time period, the number of teen births has decreased 25%! (See the light green line in the graph to the upper right). Additionally among 2012 teen births, the percentage reported as low birth weight decreased marginally after an increase in 2011. As in the previous years of decline, this is in contrast to increases in STIs. Chlamydia has increased for 4 consecutive years, and Gonorrhea for 2.

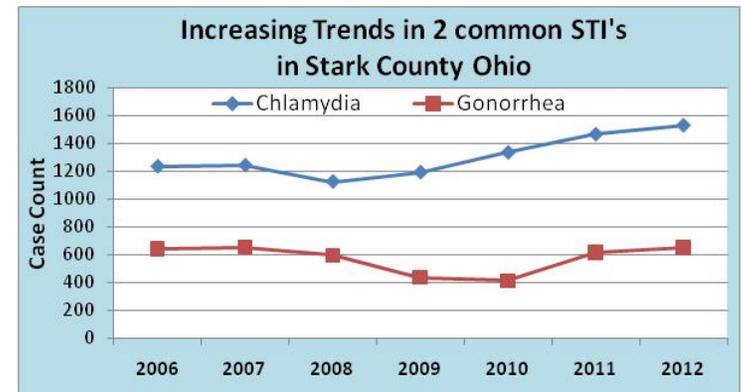
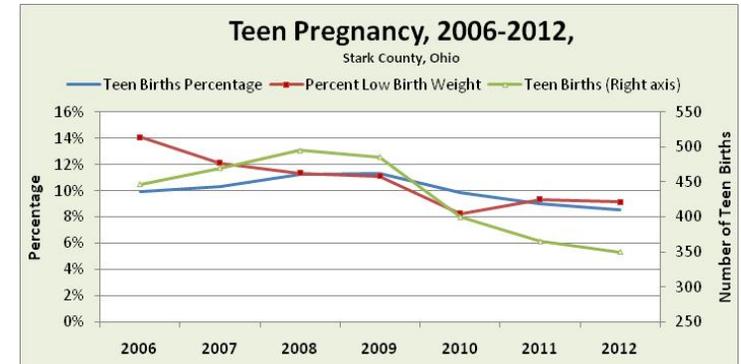


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	December 2012				January 2012			
	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							
Mold Count								
Air Quality Index	37	9	19	All Good	8	35	20	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

	December 2012	YTD 2012	2011
Live Births	302	4080	4058
Births to Teens	28	350	365
Deaths	376	4278	4110

Source for 2011/2012 birth data: ODH Data Warehouse, download 01/27/2013. Death Data is reported by the 4 health districts and may include non county residents.

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 Drinkard@starkhealth.org.

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

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Dec	YTD	Dec	YTD	Dec	YTD	Dec	YTD	Dec	YTD
	Brucellosis							1	0	1
Campylobacteriosis		4	2	27		2	1	32	3	65
Chlamydia infection	10	129	48	692	10	144	43	564	111	1529
Coccidioidomycosis							1	0	1	
Cryptosporidiosis		5	2	10		2		28	2	45
Dengue							1	0	1	
E Coli Not O157:H7							1	0	1	
E Coli O157:H7			1	1			2	1	3	
E Coli Unk Serotype		1						0	1	
Giardiasis				7			1	32	1	39
Gonococcal infection	2	25	33	379	5	67	22	176	62	647
Haemophilus influenzae		1		1			6	0	8	
Hepatitis A		1		1			4	0	6	
Hepatitis B - Perinatal Infection			1	1			3	1	4	
Hepatitis B - acute				2			2	0	4	
Hepatitis B - chronic		1	1	11		3		22	1	37
Hepatitis C - acute		3		4		1	1	2	1	10
Hepatitis C - chronic		23	6	66	1	33	10	103	17	225
Influenza-associated hospitalization	6	7	36	44	6	9	65	89	113	149
LaCrosse Virus Disease							1	0	1	
Legionnaires' Disease			2	7			9	2	16	
Listeriosis							1	1	1	1
Lyme Disease		1	1	1		1	1	11	2	14
Meningitis - aseptic/viral		3		7		4	2	20	2	34
Meningitis - bacterial (Not N. meningitidis)				3				1	0	4
Mumps							1	0	1	
Mycobacterial disease -		2	1	6		1	2	16	3	25
Pertussis		2		2				10	0	14
Salmonellosis		1		6		1	1	31	1	39
Shigella		3	2	2		1		2	2	8
Streptococcal - Group A -invasive	1	2		5		2	1	12	2	21
Streptococcal-Group B in Newborn			1	1				1	1	2
Streptococcal toxic shock syndrome								1	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	5	1	14	1	3	3	36	6	58
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate		3	2	7		1	2	10	4	21
Syphilis, Total		1	1	5		6			1	12
Syphilis, Primary and Secondary			1	3					1	3
Typhoid Fever							1	0	1	
Varicella		4		7		6	4	22	4	39
West Nile Virus				1					0	1

Source: Ohio Disease Reporting System, downloaded 1/27/2013.

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

	Dec-12	2012	Dec-11	2011	5 Yr annual average	Rate
Anaplasmosis					0.2	0.05
Brucellosis		1			0	0
Campylobacteriosis	3	65	3	40	50	13.31
Chlamydia	111	1529	123	1457	1269.6	338.03
Coccidioidomycosis		1			0	0
Creutzfeldt-Jakob Disease (CJD)				2	1.6	0.43
Cryptosporidiosis	2	45		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 , STP, Not O157:H7		1		2	1	0.27
Escherichia coli , STP, Unk Serotype	1	3		2	1.4	0.37
Escherichia coli O157:H7		1			2	0.53
Ehrlichiosis-Ehrlichia chaffeensis				1	0.2	0.05
Giardiasis	1	39	3	62	52.2	13.9
Gonorrhea	62	647	46	613	540.4	143.88
Haemophilus influenzae , Invasive Disease		8	1	8	7	1.86
Hemolytic Uremic Syndrome (HUS)					0.6	0.16
Hepatitis A		6		1	2.4	0.64
Hepatitis B - Perinatal Infection	1	4		2	**	**
Hepatitis B, Acute		4		2	3.4	0.91
Hepatitis B, Chronic	1	37	1	23	36.4	9.69
Hepatitis C, Acute	1	10		6	4.2	1.12
Hepatitis C, Chronic	17	225	21	253	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	113	149	1	143	**	**
LaCrosse virus disease		1		1	0.6	0.16
Legionellosis	2	16	2	9	14.2	3.78
Listeriosis	1	1		2	2.4	0.64
Lyme Disease	2	14	1	12	4.2	1.12
Malaria				1	1.2	0.32
Meningitis, Aseptic	2	34	2	63	40.8	10.86
Meningitis, Bacterial, Not Neisseria meningitidis		4	1	3	2.6	0.69
Meningococcal Disease				1	1.2	0.32
Mumps		1			0.8	0.21
Mycobacterial disease - other than tuberculosis	3	25	2	23	24	6.39
Pertussis		14		11	34	9.05
Q Fever					0	0
Rheumatic Fever					0.2	0.05
Rocky Mountain Spotted Fever (RMSF)				2	0.6	0.16
Salmonellosis	1	39	3	32	36.4	9.69
Shigellosis	2	8		1	50	13.31
Streptococcal Disease, Group A, Invasive	2	21		22	10.6	2.82
Streptococcal Disease, Group B, in Newborn	1	2	1	3	3.6	0.96
Streptococcal Toxic Shock Syndrome (STSS)		1		2	1	0.27
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	6	58	3	37	30.8	8.2
Strep. pneumo. - invasive antibiotic resistant/intermediate	4	21		17	20.2	5.38
Syphilis, Total	1	12	4	13	11.2	2.98
Syphilis, Primary and Secondary	1	3	4	10	4.2	1.12
Toxic Shock Syndrome (TSS)					0.6	0.16
Tuberculosis		2		2	2.6	0.69
Typhoid Fever		1				
Varicella	4	39	3	32	68.6	18.26
Vibriosis - other (not cholera)				1	0.2	0.05
West Nile Virus		1			0	0
Yersiniosis		2			1.2	0.32

Source: Ohio Disease Reporting System, downloaded 1/27/2013. Rates are per 100,000 population and based on 5 year average. ** Historical information unavailable.