

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: Seasonal Illness associated with winter months

Diarrheal diseases such as Cryptosporidium, Giardia, and Salmonella are associated with seasonal illness during late summer and early fall months. Stark County emergency and stat care visits attest to the seasonality of diarrheal illness. (Upper graph) There is a trend for a second increase in diarrheal illnesses during the winter months. A common winter illness that leads to diarrhea is Noro-like virus. Prior to widespread vaccination, Rotavirus was also known to be a leading cause of diarrhea during the winter. Many studies now suggest that influenza, particularly in the very young may also be associated with an increase in diarrhea during winter months.

An additional source of diarrheal illness is *Yersinia enterocolitica*, which is primarily seen in January. (Lower graph) *Yersinia enterocolitica* is a rarely reported bacterial disease. Symptoms include diarrhea, often bloody, as well as fever and abdominal pain. The CDC states symptoms typically develop 4 to 7 days after exposure and may last 1 to 3 weeks or longer. In older children and adults, right-side abdominal pain and fever may be the predominant symptoms and may be confused with appendicitis. The USDA reports *Y. enterocolitica* has been detected in environmental and food sources, such as ponds, lakes, meats, ice cream and milk. It has been isolated from such animals as pigs (especially in the large intestines also known as chitterlings), birds, beavers, cats and dogs. Due to a known potential for disease transmission through poor handling of chitterlings, the USDA has developed a fact sheet to aid in the safe preparation and handling of the food product:

http://www.fsis.usda.gov/FACTSheets/Yersiniosis_and_Chitterlings/index.asp. More information on *Y. enterocolitica* can be found at: http://www.cdc.gov/ncidod/dbmd/diseaseinfo/yersinia_g.htm.

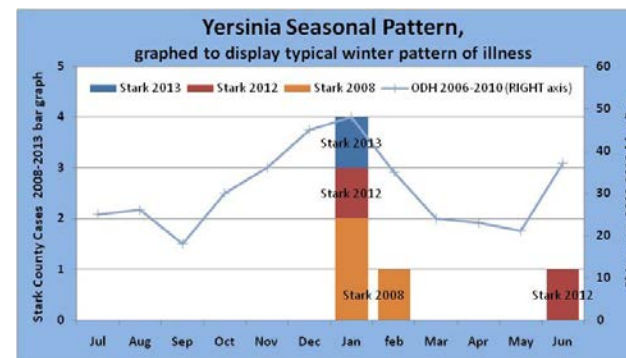
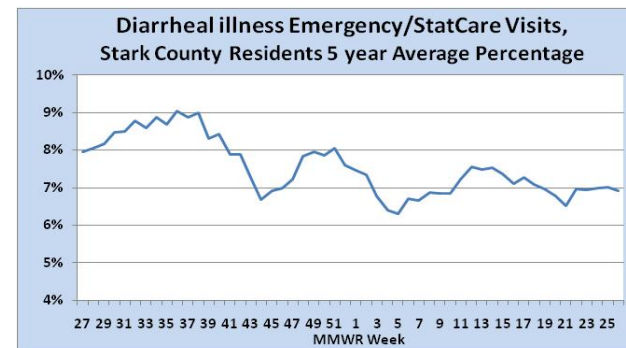


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	January 2013				February 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				Reported seasonally, not currently available			
Mold Count								
Air Quality Index	40	7	24	All Good	32	13	22.5	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

	January 2013	YTD 2013	2012
Live Births	279	279	4058
Births to Teens	24	24	365
Deaths	502	502	4110

Birth and 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 Drinkardl@starkhealth.org.

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

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD
Campylobacteriosis			2	2			3	3	5	5
Chlamydia infection	12	12	65	65	7	7	47	47	131	131
Cryptosporidiosis			2	2					2	2
Giardiasis			1	1	1	1	5	5	7	7
Gonococcal infection	7	7	29	29	5	5	12	12	53	53
Haemophilus influenzae (invasive disease)							1	1	1	1
Hepatitis B - acute							1	1	1	1
Hepatitis B - chronic							2	2	2	2
Hepatitis C - acute	1	1							1	1
Hepatitis C - chronic	2	2	7	7	3	3	8	8	20	20
Influenza-associated hospitalization	6	6	58	58	20	20	104	104	188	188
Legionellosis - Legionnaires' Disease							1	1	1	1
Meningitis - bacterial (Not N. meningitidis)							1	1	1	1
Mycobacterial disease – Not TB							1	1	1	1
Pertussis							2	2	2	2
Salmonellosis							1	1	1	1
Shigellosis			2	2					2	2
Streptococcal - Group A - invasive							1	1	1	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant			1	1	1	1	5	5	7	7
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate			6	6			3	3	9	9
Varicella							1	1	1	1
Yersiniosis			1	1					1	1

Source: Ohio Disease Reporting System, downloaded 2/19/2013.

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

	Jan 2013	Jan 2012	2012	5 Yr annual average	Rate
Brucellosis			1	0.2	0.053
Campylobacteriosis	5	1	65	52.8	14.058
Chlamydia	131	131	1529	1327.4	353.421
Coccidioidomycosis			1	0.2	0.053
Creutzfeldt-Jakob Disease			0	1.6	0.426
Cryptosporidiosis	2		45	25.2	6.710
Cytomegalovirus, Congenital			0	0.4	0.107
Dengue			1	0.8	0.213
Ehrlichiosis			0	0.2	0.053
Escherichia coli , STP, Not O157:H7			1	1.2	0.320
Escherichia coli O157:H7			3	2.2	0.586
Escherichia coli , STP, Unk Serotype			1	1.4	0.373
Giardiasis	7	3	38	51.8	13.792
Gonorrhea	53	58	647	539.6	143.669
Haemophilus influenzae , Invasive	1		8	8.2	2.183
Hemolytic Uremic Syndrome (HUS)			0	0.4	0.107
Hepatitis A			6	2.6	0.692
Hepatitis B, Acute	1		4	3.6	0.959
Hepatitis B, Chronic	2		37	34	9.053
Hepatitis C, Acute	1		10	6	1.598
Hepatitis C, Chronic	20	21	223	227.4	60.545
Hepatitis E			0	0.2	0.053
Herpes, Congenital			0	0.4	0.107
Influenza A - novel virus infection			0	0.4	0.107
Influenza-associated hospitalization	188		150	123.5*	32.882
LaCrosse virus disease			1	0.8	0.213
Legionellosis	1		16	15.6	4.154
Listeriosis			1	2.2	0.586
Lyme Disease		1	14	7	1.864
Malaria			0	1.2	0.320
Meningitis, Aseptic			34	35.8	9.532
Meningitis, Other Bacterial	1	2	4	3.2	0.852
Meningococcal Disease			0	1	0.266
Mumps			1	1	0.266
Mycobacterial disease - Not TB	1		25	24.8	6.603
Pertussis	2		14	36.4	9.692
Rheumatic Fever			0	0.2	0.053
Rocky Mountain Spotted Fever			0	0.6	0.160
Salmonellosis	1	2	39	37.2	9.905
Shigellosis	2		8	50.4	13.419
Streptococcal Dis, Group A, Invasive	1	3	21	13.4	3.568
Streptococcal Dis, Group B, in Newborn			2	3.2	0.852
Streptococcal Toxic Shock Syndrome			1	0.8	0.213
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	7	7	58	36	9.585
Streptococcus pneumo - inv antibiotic resistant/intermediate	9	2	21	20	5.325
Syphilis, Total			12	11.6	3.089
Syphilis, Primary and Secondary			3	4.2	1.118
Toxic Shock Syndrome (TSS)			0	0.6	0.160
Tuberculosis			2	2.6	0.692
Typhoid Fever			1	0.2	0.053
Varicella	1	7	39	46.8	12.461
Vibriosis - other (not cholera)				0.25	0.067
West Nile Virus			1	0.2	0.053
Yersiniosis	1	1	2	0.8	0.213

Source: Ohio Disease Reporting System, downloaded 2/19/2013. Rates are per 100,000 population and based on 5 year average. *Average based on 4 years of data.