

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: Influenza

February brought a sharp decrease in the number of influenza-associated hospitalizations in Stark County though activity does persist. This decrease follows a peak in January, a trend similar to the prior influenza season. Locally, type A influenza has dominated this season (96%) which is consistent with national trends. Of type A influenza cultures available for antigenic characterization nationally, 99% have been A/California/7/2009, commonly referred to as H1N1.

Certain geographical locations had elevated rates of hospitalizations (44702, 44704, 44707 and 44688), however, all areas of the county felt the affects of influenza.

Hospitalizations associated with influenza lasted an average of nearly 5 days, with a median of 3 days and include the deaths of at least 8 Stark County residents. The median age of individuals hospitalized was 59 years with a range of less than 4 weeks to greater than 90 years. Less than 30% of these hospitalized patients reported receiving a vaccination during the current season. Alarmingly, the lowest percentage of vaccination observed was in children 0-17 years (10%), followed by adults 18-65 (20%) and seniors 65+ (49%). Additionally, of those not reporting a history of vaccination this season, at least 30% had a chronic medical condition placing them at high risk for complications related to influenza. These medical conditions included chronic heart, kidney and pulmonary diseases and diabetes. There was no statistical difference between races in the likelihood of receiving a vaccine this year or having a chronic medical condition.

The CDC estimates that during the last influenza season over 79,000 hospitalizations would have been prevented by vaccination. Although this season appears to be coming to an end, it is never too early or late to promote the benefits of influenza vaccination for our community and reduce the burden of this preventable disease.

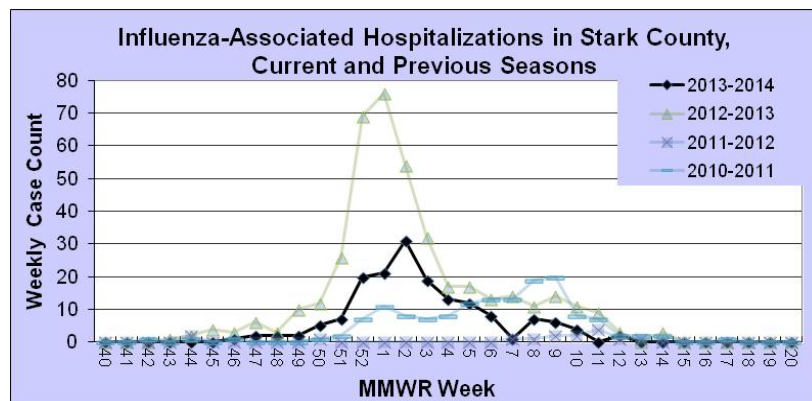


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	February 2014				March 2013			
	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	Data collected Seasonally, not currently available.				850	30	210	
Mold Count	Data collected Seasonally, not currently available.				4,740	370	1,040	1 Moderate
Air Quality Index	48	18	35	0	53	24	42.5	0

**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

	Feb 2014	YTD 2014	2013
Live Births	249	569	4211
Births to Teens	25	55	370
Deaths	411	819	4229

Birth and Death Data is reported by the 4 health districts and may include non county residents.

Table 3 Stark County Crude Birth Rate and Death Rates

	2008	2009	2010	2011	2012
Birth	11.8	11.4	10.8	10.8	10.9
Death	11.4	10.9	10.9	11.3	11.4

*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 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.

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

	Alliance City		Canton City		Massillon City		Stark County		All of Stark County	
	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD
Campylobacteriosis	1	1	0	1	0	0	2	5	3	7
Chlamydia infection	4	17	71	134	11	34	53	99	139	284
Cryptosporidiosis	0	1	2	2	0	0	2	2	4	5
Giardiasis	0	0	1	1	0	0	1	1	2	2
Gonococcal infection	4	9	37	70	3	8	13	29	57	116
Hepatitis B (including delta) - chronic	0	0	0	0	1	3	7	8	8	11
Hepatitis C - chronic	1	4	7	24	4	6	11	25	23	59
Influenza-associated hospitalization	3	8	6	41	3	13	12	57	24	119
Legionellosis - Legionnaires' Disease	0	0	0	1	0	0	1	1	1	2
Lyme Disease	0	0	0	1	0	0	0	0	0	1
Meningitis - aseptic/viral	0	0	0	0	0	0	0	1	0	1
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	1	1	1	1
Mycobacterial disease - other than tuberculosis	0	1	1	2	0	0	4	5	5	8
Pertussis	0	0	0	1	4	4	1	3	5	8
Salmonellosis	0	0	1	1	0	0	0	2	1	3
Shigellosis	2	2	0	9	0	0	1	7	3	18
Streptococcal - Group A -invasive	0	0	0	0	0	0	2	2	2	2
Streptococcal toxic shock syndrome (STSS)	0	0	1	1	0	0	0	0	1	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	1	3	4	0	0	0	1	4	6
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	0	0	1	0	1
Varicella	0	0	0	1	0	0	2	2	2	3

Source: Ohio Disease Reporting System, downloaded 3/21/2014.

Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County

(Provisional Data)	Feb-14	Feb-13	YTD 2014	YTD 2013	2013	5 Yr Annual Average	5 Yr Annual Rate
Brucellosis	0	0	0	0	0	0.2	0.053
Campylobacteriosis	3	2	7	7	67	55.4	14.75
Chlamydia	139	122	284	252	1467	1391	370.46
Coccidioidomycosis	0	0	0	0	0	0.2	0.053
Creutzfeldt-Jakob Disease	0	0	0	0	2	1.2	0.32
Cryptosporidiosis	4	4	5	6	27	25.8	6.87
Cyclosporiasis	0	0	0	0	1	0.2	0.053
Dengue	0	0	0	0	0	0.8	0.213
Escherichia coli , STP, Not O157:H7	0	0	0	0	2	1.8	0.479
Escherichia coli O157:H7	0	0	0	0	0	2.4	0.639
Escherichia coli , STP, Unk Serotype	0	0	0	0	0	0.6	0.16
Ehrlichiosis/Anaplasmosis	0	0	0	0	1	0.4	0.107
Giardiasis	2	4	2	11	40	52.6	14.01
Gonorrhea	57	51	116	104	618	543.2	144.63
Haemophilus influenzae , Invasive	0	1	0	2	7	8	2.13
Hepatitis A	0	0	0	0	15	3.4	0.91
Hepatitis B-Perinatal	0	1	0	1	7	2.4	0.639
Hepatitis B, Acute	0	1	0	2	11	4.4	1.172
Hepatitis B, Chronic	8	3	11	5	26	32.4	8.627
Hepatitis C, Acute	0	3	0	3	7	5.6	1.491
Hepatitis C, Chronic	23	17	59	38	280	231	61.5
Hepatitis E	0	0	0	0	0	0	0.053
Influenza-associated hospitalization	24	56	119	263	356	165.2	43.99
Influenza-associated pediatric mortality	0	0	0	0	1	0.2	0.053
LaCrosse virus disease	0	0	0	0	0	0.8	0.213
Legionellosis	1	4	2	5	32	16.6	4.42
Listeriosis	0	1	0	1	2	2	0.533
Lyme Disease	0	3	1	3	17	9.8	2.609
Malaria	0	0	0	0	1	1.4	0.373
Meningitis, Aseptic	0	2	1	2	25	35.4	9.425
Meningitis, Other Bacterial	1	0	1	1	5	3.8	1.012
Meningococcal Disease	0	0	0	0	0	0.8	0.213
Mumps	0	0	0	0	0	0.6	0.16
Mycobacterial disease - Not TB	5	2	8	3	37	27.6	7.349
Pertussis	5	1	8	3	18	39	10.384
Q fever, acute	0	0	0	0	2	0.4	0.107
Salmonellosis	1	4	3	5	46	38	10.12
Shigellosis	3	3	18	5	89	25.6	6.816
Spotted Fever Rickettsiosis	0	0	0	0	0	0.6	0.16
Streptococcal Dis, Group A, Invasive	2	3	2	4	16	15.2	4.047
Streptococcal Dis, Group B, in Newborn	0	0	0	0	2	3.2	0.852
Streptococcal Toxic Shock Syndrome	1	0	1	0	0	0.6	0.16
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	4	3	6	11	34	36.6	9.745
Streptococcus pneumo - inv antibiotic resistant/intermediate	0	0	1	9	27	20.2	5.378
Syphilis, Total	0	1	0	1	14	11.6	3.089
Syphilis, Primary and Secondary	0	0	0	0	8	3.4*	0.91*
Toxic Shock Syndrome (TSS)	0	0	2	0	2	3	0.213*
Tuberculosis	0	0	0	0	1	2.4	0.639
Typhoid Fever	0	0	0	0	0	0.2	0.053
Varicella	2	4	3	5	31	42.4	11.29
Vibriosis - other (not cholera)	0	0	0	0	1	0.4	0.107
Vibriosis parahaemolyticus	0	0	0	0	1	0.2	0.053
West Nile Virus	0	0	0	0	0	0.2	0.053
Yersiniosis	0	0	0	1	1	0.6	0.16

Source: Ohio Disease Reporting System, downloaded 3/21/2014. Rates are per 100K population and based on 5 yr average incidence 09-13.*08-12 from ODH Stats pg.