

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: Respiratory Virus Surveillance

Data for respiratory virus surveillance in Ohio is provided by fifteen reporting entities, including two Stark County hospitals. These participating facilities report virus antigen detections, isolations by culture and polymerase chain reaction (PCR) results on a weekly basis to the Centers for Disease Control and Prevention (CDC) via the state health department. The data is captured by a system referred to as the NREVSS. The National Respiratory and Enteric Virus Surveillance System is a laboratory-based system that monitors temporal and geographic patterns associated with the detection of respiratory syncytial virus (RSV), human parainfluenza viruses (HPIV), respiratory and enteric adenoviruses and rotavirus. Additionally, influenza virus typing gathered from this system is used to prepare the weekly influenza surveillance report.

Current data from the NREVSS reveals unusually high numbers of positive lab results by RT-PCR for the following viruses: Adenovirus, Rhinovirus, and Human Metapneumovirus in Ohio. (See graph) The percentage positive for each of the virus' has not changed, therefore the increase could be a result of increased testing or an actual increase in the number of the virus' circulating in Ohio. Unlike the viruses just mentioned that are at elevated levels, total antigen detection tests for RSV in Ohio are below expected. National surveillance data for these viruses can be found at <http://www.cdc.gov/surveillance/nrevss/index.html>.

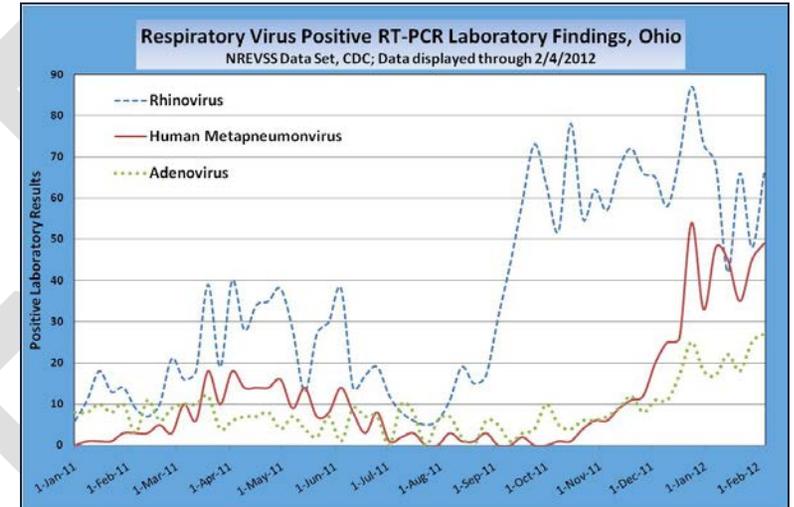


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	January 2012				February 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	Seasonally Unavailable							
Mold Count	Seasonally Unavailable							
Air Quality Index	35	8	20	All Good	46	1	22	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

	Jan 2012	YTD 2012	2010
Live Births		3934	4075
Births to Teens		346	399
Deaths		4205	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

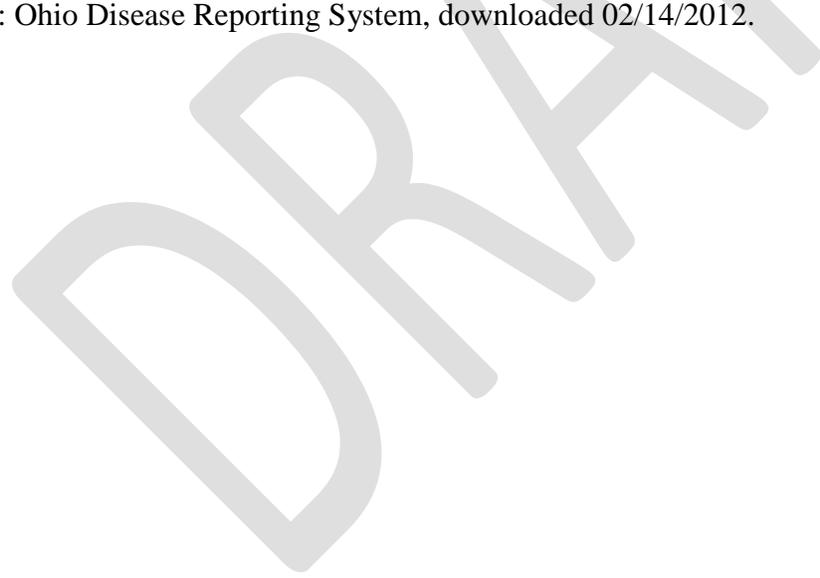
*Source: Ohio Department of Health Data Warehouse. Rates are per 100,000 population.

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	
	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD
Campylobacteriosis							1	1	1	1
Chlamydia infection	15	15	69	69	14	14	35	35	133	133
Giardiasis							3	3	3	3
Gonococcal infection	6	6	39	39	3	3	9	9	57	57
Hepatitis C - chronic	2	2	6	6	3	3	10	10	21	21
Lyme Disease							1	1	1	1
Meningitis - bacterial (Not N. meningitidis)			1	1			1	1	2	2
Salmonellosis							2	2	2	2
Streptococcal - Group A - invasive			2	2			1	1	3	3
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant			1	1			6	6	7	7
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate							2	2	2	2
Varicella			1	1			4	4	5	5

Source: Ohio Disease Reporting System, downloaded 02/14/2012.



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

	Jan 2012	YTD 2012	YTD 2011	All of 2011	5 Yr annual average	Rate
Anaplasmosis	0	0	0	0	0.2	0.05
Campylobacteriosis	1	1	1	40	50	13.31
Chlamydia	133	133	116	1459	1269.6	338.03
Creutzfeldt-Jakob Disease (CJD)	0	0	0	2	1.6	0.43
Cryptosporidiosis	0	0	3	16	21.2	5.64
Cytomegalovirus (CMV), Congenital	0	0	0	0	0.4	0.11
Dengue	0	0	0	2	0.6	0.16
Ehrlichiosis-Ehrlichia chaffeensis	0	0	0	1	0.2	0.05
Encephalitis, Post Other Infection	0	0	0	0	0.2	0.05
Encephalitis, Primary Viral	0	0	0	0	0.8	0.21
Escherichia coli , Shiga Toxin-Producing, Not O157:H7	0	0	0	2	1	0.27
Escherichia coli , Shiga Toxin-Producing, Unknown Serotype	0	0	0	0	1.4	0.37
Escherichia coli O157:H7	0	0	0	2	2	0.53
Giardiasis	3	3	5	62	52.2	13.90
Gonorrhea	57	57	36	614	540.4	143.88
Haemophilus influenzae , Invasive Disease	0	0	2	8	7	1.86
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	0.6	0.16
Hepatitis A	0	0	0	1	2.4	0.64
Hepatitis B, Acute	0	0	0	2	3.4	0.91
Hepatitis B, Chronic	0	0	1	23	36.4	9.69
Hepatitis C, Acute	0	0	1	6	4.2	1.12
Hepatitis C, Past or Present	21	21	22	282	239.8	63.85
Hepatitis E	0	0	0	1	0.2	0.05
Herpes, Congenital	0	0	0	0	0.4	0.11
Influenza A - novel virus infection	0	0	0	0	0.4	0.11
Influenza-associated hospitalization	0	0	40	143	N/A	N/A
LaCrosse virus disease (other California serogroup virus disease)	0	0	0	1	0.6	0.16
Legionellosis	0	0	0	9	14.2	3.78
Listeriosis	0	0	1	2	2.4	0.64
Lyme Disease	1	1	0	12	4.2	1.12
Malaria	0	0	0	1	1.2	0.32
Meningitis, Aseptic	0	0	1	63	40.8	10.86
Meningitis, Bacterial, Not Neisseria meningitidis	2	2	0	3	2.6	0.69
Meningococcal Disease	0	0	1	1	1.2	0.32
Mumps	0	0	0	0	0.8	0.21
Mycobacterial disease - other than tuberculosis	0	0	3	23	24	6.39
Pertussis	0	0	6	11	34	9.05
Rheumatic Fever	0	0	0	0	0.2	0.05
Rocky Mountain Spotted Fever (RMSF)	0	0	0	2	0.6	0.16
Salmonellosis	2	2	2	32	36.4	9.69
Shigellosis	0	0	0	1	50	13.31
Streptococcal Disease, Group A, Invasive	3	3	2	22	10.6	2.82
Streptococcal Disease, Group B, in Newborn	0	0	0	3	3.6	0.96
Streptococcal Toxic Shock Syndrome (STSS)	0	0	0	2	1	0.27
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	7	7	2	37	30.8	8.20
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	2	2	2	17	20.2	5.38
Syphilis, Total	0	0	0	0	11.2	2.98
Syphilis, Primary and Secondary	0	0	0	0	4.2	1.12
Toxic Shock Syndrome (TSS)	0	0	0	0	0.6	0.16
Tuberculosis	0	0	0	2	2.6	0.69
Varicella	5	5	4	34	68.6	18.26
Vibriosis - other (not cholera)	0	0	0	1	0.2	0.05
Yersiniosis	1	1	0	0	1.2	0.32

This report includes confirmed, probable and suspect cases, as reported in the Ohio Disease Reporting System (ODRS).

*Annual Rate per 100,000 population is derived from a five year average of disease incidence and on a total 2010 census population of 375,586