

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: November brought the first two cases of influenza-associated hospitalization among Stark County residents for the 2011-2012 season. Both cases were individuals 80 years and over, and each was confirmed with a different strain: one with influenza A (H3) and one influenza B. The identification of influenza activity in Stark County highlights the need for continued emphasis of immunization of the elderly and their close contacts. Additionally, the CDC recommends routine annual influenza vaccination for all persons aged 6 months and older. Vaccination also should continue to be offered throughout the influenza season.

It is too early in the influenza season to determine how well the seasonal influenza vaccine strains and circulating strains will match. This year the CDC has antigenically characterized 61 influenza viruses collected by U.S. laboratories since October 1, 2011 [nine 2009 influenza A (H1N1), 42 influenza A (H3N2) viruses, and 10 influenza B viruses (6 Victoria lineage and 4 Yamagata lineage)]. All but the influenza B Yamagata lineage are components of the 2011-2012 influenza vaccine. In addition to routine testing performed at CDC, the CDC has also confirmed two cases of human infection with two different novel influenza A viruses in different states. One case of human infection with a novel influenza virus was reported by West Virginia and involves infection of a child with the novel influenza A (H3N2) virus with genes from swine, human, and avian lineages with the M gene from the 2009 H1N1 virus that was first identified in August 2011. The other case of novel influenza A virus infection was reported by Minnesota, and is associated with a different influenza virus; an influenza A (H1N2) virus that circulates in swine in the United States, but does not normally infect or cause illness in humans. This case also was in a child. This is only the second case of human infection with this novel influenza A (H1N2) virus reported to CDC since novel influenza virus infections became nationally notifiable in 2007. Both cases have fully recovered. Both strains were also found to be susceptible to antiviral medications currently recommended for use, oseltamivir (Tamiflu®) and zanamivir (Relenza®). Additional information on novel influenza can be found at http://www.cdc.gov/media/haveyouheard/stories/novel_influenza.html.

Additional information on local, state, and national influenza activity can be found at the following websites: <http://www.cantonhealth.org/ophi/?pg=244>, <http://www.odh.ohio.gov/features/odhfeatures/seasflu/seasonalinfluenza.aspx>, and <http://www.cdc.gov/flu/weekly/>.

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

	November 2011				December 2010			
	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				Seasonally Unavailable			
Mold Count	Seasonally Unavailable				Seasonally Unavailable			
Air Quality Index	38	7	38	All Good	40	3	17	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

	Nov 2011	YTD 2011	2010 Total
Live Births	421	3832	4521
Births to Teens	43	362	457
Deaths	356	3850	4102

Table 3 Stark County Crude Birth and Death Rates

	2004	2005	2006	2007	2008
Birth	1172*	1163*	1191*	1190*	1166*
Death	971*	1022*	1000*	1035*	1067

*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.

Table 4: 2011 Jurisdictional Summary of Reportable Diseases in Stark County, OH

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD	Nov	YTD
Campylobacteriosis		4		5		4	2	24	2	37
Chlamydia infection	11	126	62	652	10	128	42	429	125	1335
Creutzfeldt-Jakob Disease								2	0	2
Cryptosporidiosis				3			2	13	2	16
Dengue								2	0	2
E Coli (STP) NOT O157:H7								2	0	2
E Coli (STP) O157:H7						1		1	0	2
Ehrlichiosis				1					0	1
Giardiasis		2	1	13		2	1	42	2	59
Gonococcal infection	4	68	35	342	6	41	8	116	53	567
Haemophilus influenzae		1		2				4	0	7
Hepatitis A								1	0	1
Hepatitis B- Perinatal Infection				1				2	0	3
Hepatitis B- Acute							1	2	1	2
Hepatitis B-Chronic		1		6	1	3	2	12	3	22
Hepatitis C - acute			1	3		2		1	1	6
Hepatitis C - chronic		17	4	75	2	34	8	129	14	255
Influenza-associated hospitalized		8		41		12	2	81	2	142
LaCrosse Virus								1	0	1
Legionellosis	1	1				2		4	1	7
Listeriosis							1	2	1	2
Lyme Disease		1		2				8	0	11
Malaria								1	0	1
Meningitis - aseptic/viral		9	2	16		14	1	22	3	61
Meningitis - bacterial (Not N. meningitidis)				1		1			0	2
Meningococcal disease -								1	0	1
Mycobacterial disease-Not TB		2		2		1	1	16	1	21
Pertussis					1	1		10	1	11
Rocky Mountain Spotted Fever		1						1	0	2
Salmonellosis		2		4	1	1	1	22	2	29
Shigellosis								1	0	1
Streptococcal - Group A -Invas				5			3	17	3	22
Streptococcal -Group B in Newborn				1				1	0	2
Streptococcus Toxic Shock STSS				1				1	0	2
Strep pneumo resistance unk or non-resistant		2		6		4	2	22	2	34
Strep pneumo antibiotic resistant/intermediate		4		2		2	2	9	2	17
Syphilis, Pr & Secondary			1	6	1	1	0	2	2	10
Syphilis, Total			1	5	1	1	0	0	2	6
Varicella		5		3		2	4	19	4	29
Vibriosis - other (not cholera)				1					0	1

Source: Ohio Disease Reporting System, downloaded 12/22/2011.

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

	Nov 11	YTD 2011	YTD 2010	All of 2010	5 Yr annual average	Rate
Campylobacteriosis	2	37	46	50	52	13.7
Chlamydia	125	1335	1230	1333	1188	313.12
Coccidioidomycosis	0	0	0	0	1	0.26
Creutzfeldt-Jakob Disease	0	2	0	0	3	0.7
Cryptosporidiosis	2	16	21	23	22	5.8
Cytomegalovirus, Congenital	0	0	0	0	1	0.26
Dengue	0	2	1	1	1	0.26
E. coli - enterohemorrhagic (STP) NOT O157:H7	0	2	1	1	2	0.53
E. coli - enterohemorrhagic (STP) O157:H7	0	2	3	3	3	0.9
E coli , STP, Unknown	0	0	1	1	1	0.37
Ehrlichiosis (Anaplasmosis)	0	1	0	0	1	0.26
Encephalitis - post other infection	0	0	0	0	1	0.26
Encephalitis - primary viral	0	0	0	0	2	0.53
Giardiasis	2	59	63	69	49	12.86
Gonorrhea	53	567	376	409	527	138.83
Haemo. Influz., Bacteria	0	7	8	8	6	1.63
Hemolytic Uremic Syndrome	0	0	0	0	2	0.53
Hepatitis A	0	1	0	0	5	1.19
Hepatitis B - Perinatal Infection	0	3	1	2	4	1.05
Hep B, Acute	1	2	5	5	5	1.21
Hep B, Chronic	3	22	37	39	39	10.38
Hep C, Acute	1	6	4	4	4	1.05
Hep C, Past or Present	14	255	220	233	232	61.09
Herpes, Congenital	0	0	0	0	1	0.26
Influenza-Hospitalized	2	142	4	7	N/A	N/A
LaCrosse virus disease	0	1	2	2	2	0.53
Legionellosis	1	7	15	16	15	3.9
Listeriosis	1	2	1	1	3	0.79
Lyme Disease	0	11	3	4	3	0.79
Malaria	0	1	2	2	3	0.66
Meningitis, Asep	3	61	29	33	38	9.91
Meningitis Bac.	0	2	2	2	3	0.74
Meningococcal Dis.	0	1	1	2	1	0.32
Mumps	0	0	1	1	2	0.4
Mycobacterial disease - other than tuberculosis	1	21	31	33	22	5.69
Pertussis	1	11	102	106	35	9.22
Rheumatic fever	0	0	0	0	1	0.26
Q Fever, Chronic	0	0	0	0	0	0
Rocky Mountain Spotted	0	2	1	1	1	0.26
Salmonellosis	2	29	34	34	41	10.8
Shigellosis	0	1	4	4	51	13.33
Strep Inv A GAS	3	22	10	12	10	2.53
Strep B Newborn	0	2	3	4	4	0.95
Strep toxic shock (STSS)	0	2	0	0	2	0.4
Strep pneumo - invasive antibiotic resistance unk or non-resistant	2	34	22	25	28	7.48
Streptococcus pneumo - invasive antibiotic resistant/intermediate	2	17	19	20	24	6.27
Syphilis, Total	2	10	9	10	14	3.74
Syphilis, Pri & Secondary	2	6	4	4	4	1.16
Toxic shock syndrome (TSS)	0	0	0	1	2	0.4
Typhoid Fever	0	0	0	0	1	0.26
Varicella#	4	29	55	57	119	31.41
Vibriosis	0	1	0	0	0	0
West Nile Virus	0	0	0	0	2	0.53
Yersiniosis	0	0	0	0	3	0.88

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 population of 379,466