

EPI Gram is a monthly publication of the Stark County Public Health 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.

IN THE NEWS:

Vaccine preventable Diseases: January 2010 revealed a reduced burden of vaccine preventable diseases throughout Stark County. When Jan 2010 is compared with Jan 2009 all of the following are at or below levels seen in the comparative 2009 period: Hepatitis B, Influenza associated hospitalizations, Pertussis, and Varicella.

In order to continue reducing the burden of a new strain of influenza seen in 2009 the World Health Organization (WHO) recently recommended the strain as a component for the 2010-2011 northern hemisphere influenza vaccine. This recommendation is expected to increase vaccination to all segments of the general public. Specifically, the WHO recommended that the following viruses be used for influenza vaccines in the 2010-2011 influenza season (northern hemisphere):

- an A/California/7/2009 (H1N1)-like virus;
- an A/Perth/16/2009 (H3N2)-like virus; (A/Wisconsin/15/2009 is an A/Perth/16/2009 (H3N2)-like virus and is a 2010 southern hemisphere vaccine virus)
- a B/Brisbane/60/2008-like virus.

Other changes in Ohio to vaccination recommendations also bring the potential for a continued reduction in disease burden. In December 2009, The Ohio Department of Health created new expectations related to immunizations for public school students that begin with the 2010-11 school year. A complete list of the immunization schedule for the 2010-11 school year can be found at: <http://www.odh.ohio.gov/ASSETS/B20964AA72FB4227BE170B9FE00E2F3B/sch0911.pdf>.

Some of the new standards include:

- All seventh grade students are required to have one booster dose of Tdap (Tetanus, diphtheria and acellular pertussis) or Td (Tetanus and diphtheria) vaccine prior to entry.
- All kindergarten students are required to have four doses of any combination of OPV or IPV (Polio). The final dose must be administered on or after the fourth birthday regardless of the number of previous doses.
- All kindergarten students need two doses of Varicella (chickenpox) vaccine.

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

	Jan 2010				February 2009			
	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 not collected during winter months				Data not collected during winter months			
Mold Count	N/A				N/A			
Air Quality Index	107	5	33	** 1 Unhealthy for S. G.	20	13	18	Good

**See the following website for updated Air Quality Index terminology and color coding <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> Data source for this table is the Air Quality Division of the Canton City Health Department.

Table 2 Summary of Select Vital Statistics for Stark County, Ohio

	Jan-09	YTD 2010	2009 Total
Live Births	Temporarily unavailable		
Births to Teens			
Deaths			

Due to the current method of reporting, all data is provisional.

Table 3 Stark County Crude Birth and Death Rates per 100,000 Population

Rates are based on the US Census 2000 Stark County population of 377,438.

	2004	2005	2006	2007	2008
Birth	1240	1211	1282	1340	1369
Death	1040	1140	1076	1076	1067

If you have any questions, including how to receive copies of this report, please contact Karen Schanz at 330.493.9928 or Schanzk@starkhealth.org or Christina Henning at 330.489.3327 or Chenning@cantonhealth.org.

Table 4-Jurisdictional summary of reportable diseases in Stark County, Ohio in Jan 2010.

	Alliance City		Canton City		Massillon City		Stark County		All	
	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD	Jan	YTD
Campylobacteriosis	0	0	1	1	0	0	1	1	2	2
Chlamydia infection	5	5	55	55	8	8	29	29	97	97
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	0	0	0
Cryptosporidiosis	0	0	0	0	0	0	0	0	0	0
Cytomegalovirus -congenital (CMV)	0	0	0	0	0	0	0	0	0	0
E. coli (STP) - Not O157:H7	0	0	0	0	0	0	0	0	0	0
E. coli (STP) O157:H7	0	0	0	0	0	0	0	0	0	0
E. coli (STP) Unknown serotype	0	0	0	0	0	0	0	0	0	0
Giardiasis	0	0	1	1	1	1	1	1	3	3
Gonococcal infection	4	4	19	19	2	2	7	7	32	32
Haemophilus influenzae bacterial	0	0	1	1	0	0	1	1	2	2
Hepatitis A	0	0	0	0	0	0	0	0	0	0
Hepatitis B - acute	0	0	1	1	0	0	0	0	1	1
Hepatitis B - chronic	0	0	1	1	0	0	1	1	2	2
Hepatitis C - acute	0	0	0	0	0	0	0	0	0	0
Hepatitis C - past or present	0	0	7	7	4	4	6	6	17	17
Influenza A - novel virus infection	0	0								
Influenza-hospitalization	0	0	0	0	0	0	0	0	0	0
Legionellosis	0	0	0	0	0	0	0	0	0	0
Listeriosis	0	0	0	0	0	0	0	0	0	0
Lyme Disease	0	0	1	1	0	0	0	0	1	1
Malaria	0	0	0	0	0	0	0	0	0	0
Meningitis - aseptic/viral	0	0	0	0	0	0	1	1	1	1
Meningitis - bacterial	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	0	0	0	0	0	0	0	0	0	0
Pertussis	0	0	0	0	0	0	1	1	1	1
Salmonellosis	0	0	1	1	0	0	0	0	1	1
Shigellosis	0	0	0	0	0	0	0	0	0	0
Streptococcal - Group A -invasive	0	0	0	0	0	0	0	0	0	0
Streptococcal-Group B- newborn	0	0	0	0	1	1	0	0	1	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	0	1	1	0	0	2	2	3	3
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	0	1	1	1	1
Syphilis, Total	0	0	0	0	0	0	0	0	0	0
Syphilis, Pr & Secondary	0	0	0	0	0	0	0	0	0	0
Varicella	1	1	0	0	0	0	0	0	1	1

Case Definitions for Infectious Conditions Under Public Health Surveillance can be found in “MMWR 1997; 46 (No. RR-10). This report contains confirmed, probable and suspect cases, as reported by the local health jurisdictions in Stark County, Ohio.

Table 5 – Summary Table of Diseases Reported in the previous 5 years within Stark County, Ohio.(provisional data only)

	Stark County Totals					
	Jan	YTD 2010	YTD 2009	All of 2009	5 Yr annual average	Rate
Amebiasis	0	0	0	0	0.2	0.05
Anaplasmosis	0	0	0	0	0.2	0.05
Campylobacteriosis	2	2	3	55	50.8	13.44
Chlamydia	97	97	104	1200	1216	321.61
Creutzfeldt-Jakob Disease	0	0	0	3	1.4	0.37
Cryptosporidiosis	0	0	0	19	18.6	4.92
Cytomegalovirus, Congenital	0	0	0	1	1.2	0.32
Dengue	0	0	0	0	0.2	0.05
Enceph., Post Other	0	0	0	0	0.2	0.05
Enceph, Primary viral	0	0	0	0	1.6	0.42
E. coli - enterohemorrhagic (STP) NOT O157:H7	0	0	0	3	0.4	0.11
E. coli - enterohemorrhagic (STP) O157:H7	0	0	0	4	2.8	0.74
E coli , STP, Unknown	0	0	0	1	2.2	0.58
Giardiasis	3	3	5	57	43.8	11.58
Gonorrhea	32	32	45	442	567	149.96
Haemo. Influz., Bacteria	2	2	2	9	5.8	1.53
Hemolitic Uremic Syndrome	0	0	0	0	0.8	0.21
Hepatitis A	0	0	0	2	3	0.79
Hep B, Acute	1	1	2	2	3	0.79
Hep B, Chronic	2	2	2	40	29.4	7.78
Hep C, Acute	2	2	0	5	2.8	0.74
Hep C, Past or Present	17	17	17	196	216.6	57.29
Herpes, Congenital	0	0	0	1	0.4	0.11
Influenza A - novel virus infection	0	0	0	2	0.4	0.11
Influenza-Hospitalized	0	0	8	195	N/A	N/A
Legionellosis	0	0	0	21	14.8	3.91
Listeriosis	0	0	1	5	3.2	0.85
Lyme Disease	1	1	0	4	1.4	0.37
Malaria	0	0	0	3	0.6	0.16
Meningitis, Asep	1	1	1	23	40.2	10.63
Meningitis Bac.	0	0	1	5	2.2	0.58
Meningococcal Dis.	0	0	0	1	1.2	0.32
Mumps	0	0	0	1	1	0.26
Pertussis	1	1	4	48	22	5.82
Rheumatic fever	0	0	0	0	0.2	0.05
Rocky Mountain Spotted	0	0	0	0	0.2	0.05
Salmonellosis	1	1	6	39	39.4	10.42
Shigellosis	0	0	8	29	51.8	13.70
Strep Inv A GAS	0	0	3	7	7.6	2.01
Strep B Newborn	1	1	0	6	3.2	0.85
Strep toxic shock (STSS)	0	0	0	0	0.6	0.16
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	3	3	5	31	31	8.20
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	1	1	3	16	24.2	6.40
Syphilis, Total	0	0	2	9	14	3.70
Syphilis, Pri & Secondary	0	0	2	4	4.6	1.22
Toxic shock syndrome (TSS)	0	0	0	0	0.4	0.11
Typhoid Fever	0	0	0	0	0.2	0.05
Varicella#	1	1	5	61	121	32.00
West Nile Virus	0	0	0	0	0.8	0.21
Yersiniosis	0	0	0	0	1.6	0.42

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 378,098