

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:

Novel Influenza H1N1: Two local and over 100 residents of Ohio have been confirmed with Novel H1N1 as of 06/27/2009. This pales in comparison with the 27,717 confirmed and probable cases and 127 deaths in the United States. Additionally, the CDC is estimating that there have been over one million Americans affected by Novel H1N1.

The month of May saw the end of seasonal influenza cases, with the last laboratory confirmed case identified in the first week of May. In comparison, the first two cases of Novel H1N1 confirmed in Stark County were not identified until a month later, in early June. The two Novel cases have no known associations with each other or other confirmed cases. The CDC expects that the number of new cases will continue to rise due to sustained person-to-person transmission and numerous localized outbreaks. Recent clusters in Ohio have been noted in summer camps and other summer congregational activities. For, additional details of influenza activity in Stark County, Ohio and the Nation refer to the following website:

http://www.cantonhealth.org/flu_reports.htm.

Enteric Illnesses: Stark County has seen a two-fold increase in enteric illnesses from Jan to May of 2009 compared to the same period in 2008. “Enteric infections enter the body through the mouth and intestinal tract and are usually spread through contaminated food and water or by contact with vomit or feces.” Enteric diseases include Campylobacter, Cryptosporidiosis, E. coli, Giardia, Shigella and Salmonella. Year-to-date reports for these illnesses total 107 compared with only 58 last year. Unusually high counts of both Campylobacter and Giardia, account for the majority of this increase. Further, what makes this even more remarkable is that the summer months have just begun.

Pertussis: In May, twelve (12) cases of Pertussis were reported in Stark County. The current year-to-date total is 20 cases, double the expected year-to-date count of 10. The cases range in age from 1 month to 53 years and average 14 years. Of particular concern, is that two of the cases were unvaccinated due to their age of < 2 months. Nearly half of the cases are due to one large family cluster, with several under vaccinated family members. Proper vaccination of all family members and reducing exposure of infants to ill friends and family can significantly reduce the spread of disease.

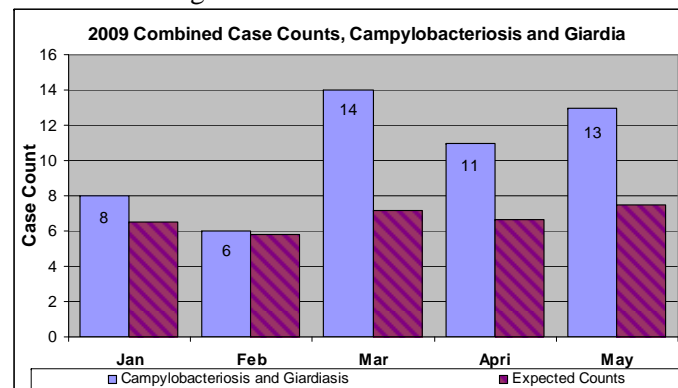


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including limited historical data.

	May 2009				June 2008			
	Monthly High	Monthly Low	Monthly Mean	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Mean	Counts in highest reported health risk category
Pollen Count	820	80	325.5	N/A	320	5	78.8	N/A
Mold Count	7,430	450	2,740	1 Moderate	14,560	1,410	6,211	1 High
Air Quality Index	67	28	45.3	4 Moderate	77	31	46.1	3 Moderate

See the following website for source information: http://www.cantonhealth.org/air_quality.htm.

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

	Apr-09	YTD 2009	2008 Total
Live Births	491	1969	5169
Births to Teens	31	192	580
Deaths	209	1182	4027

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

Table 4 –May 2009 Summary of Select Reportable Diseases, as reported by health jurisdictions in Stark County, Ohio (provisional data only)

Refer to “Case Definitions for Infectious Conditions Under Public Health Surveillance,” MMWR (Morbidity and Mortality Weekly Report) 1997; 46 (No. RR-10), the Ohio Department of Health Infectious Disease Control Manual or visit: www.cdc.gov/epo/dphsi/casedef/index.htm for case definitions.

This report includes confirmed, probable and suspect cases reported in the month of June to the specified local health department..

	Alliance City			Canton City			Massillon City			Stark County			Stark County Totals		
	May	YTD 2009	YTD 2008	May	YTD 2009	YTD 2008	May	YTD 2009	YTD 2008	May	YTD 2009	YTD 2009	May	YTD 2009	YTD 2008
Campylobacteriosis	0	1	0	1	2	1	1	1	1	4	17	6	6	21	8
Chlamydia infection	8	44	27	50	269	273	8	39	36	22	129	122	88	481	458
Cryptosporidiosis	0	1	0	2	2	1	0	0	0	2	5	4	4	8	5
E. coli - enterohemorrhagic (shiga toxin producing) O157:H7	0	0	1	0	0	0	0	0	0	1	2	0	1	2	1
Giardiasis	0	1	1	3	7	3	0	3	1	6	26	11	9	37	16
Gonococcal infection	0	6	7	21	129	159	5	17	14	4	27	37	30	179	217
Haemophilus influenzae (invasive disease)	0	0	0	1	2	2	0	1	0	0	3	2	1	6	4
Hepatitis B (including delta) - chronic	0	0	1	0	3	6	0	3	3	2	13	4	2	19	14
Hepatitis C-acute	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0
Hepatitis C - chronic	0	2	15	4	36	26	1	10	11	1	23	47	6	71	99
Legionellosis	0	0	0	0	1	1	1	1	0	0	0	3	1	2	4
Meningitis-Aseptic/viral	0	1	1	0	0	2	0	0	0	1	2	3	1	3	6
Pertussis	7	8	0	1	1	0	0	0	0	4	9	0	12	18	0
Salmonellosis	0	1	0	0	0	1	0	1	0	2	14	9	2	16	10
Shigellosis	0	0	0	1	8	11	0	2	1	0	12	5	1	22	17
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	1	0	1	4	2	0	1	2	1	1	10	2	7	14
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	3	1	0	3	4	1	1	0	3	17	12	4	24	17
Syphilis, Total	0	0	0	0	3	8	0	0	1	0	1	1	2	4	10
Syphilis, Pri & Secondary	0	0	0	0	3	3	0	0	0	0	0	1	1	3	1
Varicella	0	3	2	0	5	6	1	1	1	6	25	23	7	34	32

Incomplete 5 yr average due to a change in reporting.

If you have any questions, including how to receive copies of this report, please contact Karen Schanz at (330) 493-9928 x287 or Schanzk@starkhealth.org or Christina Henning at (330) 489-3454 or Chenning@cantonhealth.org.

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

	Stark County Totals					
	May-09	YTD 2009	YTD 2008	All of 2008	5 Yr annual average	Average rate per 100,000 population
Amebiasis	0	0	0	0	0.4	0.11
Anaplasmosis	0	0	0	0	0.2	0.05
Campylobacteriosis	6	21	8	56	48	12.7
Chlamydia	91	485	458	1122	1174.8	310.71
Creutzfeldt-Jakob Ds	0	1	1	3	0.8	0.21
Cryptosporidiosis	4	8	6	24	17.2	4.55
Cytomegalovirus, Congenital	0	1	1	1	1	0.26
Dengue	0	0	0	0	0.2	0.05
Enceph., Post Other	0	0	0	1	0.2	0.05
Enceph, Primary viral	0	0	2	2	1.8	0.48
E. coli - enterohemorrhagic (shiga toxin producing) O157:H7	1	2	0	1	2.8	0.74
E coli , STP, Unknown	0	1	1	1	2	0.53
Giardiasis	9	37	16	38	43.2	11.43
Gonorrhea	30	179	220	592	599	158.42
Haemo. Influz., Bac	1	6	4	8	5.6	1.48
Hemolitic Uremic Synd	0	2	0	2	0.8	0.21
Hepatitis A	0	2	2	4	2.8	0.74
Hep B, Acute	0	2	1	4	3.4	0.9
Hep B, Chronic	1	17	14	35	23.6	6.24
Hep C, Acute	1	1	0	5	1.8	0.48
Hep C, Past or Present	6	71	99	215	221.5	58.58
Herpes, Congenital	0	0	0	1	0.4	0.11
Influenza-Hospitalized	0	59	N/A	N/A	N/A	N/A
LaCrosse Encephalitis	0	0	0	0	0.2	0.05
Legionellosis	2	3	4	16	12	3.17
Listeriosis	0	1	2	3	2.8	0.74
Lyme Disease	0	1	0	1	0.6	0.16
Meningitis, Asep	1	3	6	28	44.4	11.74
Meningitis Bac.	0	2	3	3	1.8	0.48
Meningococcal Dis.	0	1	1	1	1.4	0.37
Mumps	0	0	2	3	0.8	0.21
Pertussis	12	18	0	3	16	4.23
Rheumatic fever	0	0	1	1	0.2	0.05
Rocky Mountain Spotted	0	0	0	0	0.2	0.05
Salmonellosis	2	16	10	44	41.4	10.95
Shigellosis	1	22	17	213	46.6	12.32
Strep Inv A GAS	0	5	9	10	7.6	2.01
Strep B Newborn	0	1	2	2	2.8	0.74
Strep toxic shock (STSS)	0	0	1	1	0.8	0.21
Streptococcus pneumoniae , Invasive Disease, Ages < 5 Yrs	0	1	0	3	4.8	1.27
Strep pneumo, Invasive Disease, Drug Resistant, Ages 5+ Yrs	2	7	14	25	21	5.55
Strept pneumo, Invasive, Susceptible or Unk, Ages 5+ Yrs	4	25	17	27	24.8	6.56
Syphilis, Total	0	4	10	19	22.8	6.03
Syphilis, Pri & Secondary	0	3	7	4	9.4	2.49
Toxic shock syndrome (TSS)	0	0	1	2	0.4	0.11
Toxoplasmosis, Congenital	0	0	0	0	0	0
Typhoid Fever	0	0	0	0	0.2	0.05
Varicella#	7	34	32	54	136	35.97
Vibriosis (Not Cholera)	0	0	0	0	0.2	0.05
West Nile Virus	0	0	0	0	1.2	0.32
Yersiniosis	0	0	3	3	2.4	0.63

Table includes information on diseases reported to the Ohio Department of Health in the previous five years.

This report includes confirmed, probable and suspect cases identified in the Ohio Disease Reporting System (ODRS). Rate is based on an estimate population of 378,098