

*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:** Changes in Sexual Disease Infection (STI) Reporting and 2009 data.

During the past several years, the method of data collection for STIs has changed dramatically. This change has led to both positive and negative consequences. The most recent change is the addition of electronic lab reporting (ELR). Three large laboratories transmit the results of positive STIs along with limited data fields through an electronic method, directly into the Ohio Disease Reporting System (ODRS). This data is often missing key elements, in particular race. In time, it is expected that expanding ELR to other diseases will increase current disease reporting, decrease the timeliness of reports and reduce the time to initiate a public health response. Another significant change is the transfer of responsibility for data entry from the Ohio Department of Health (ODH) to the Local Health Departments (LHD). Historically ODH played a key role in entering STI lab reports into the ODRS. In addition, final records awaiting data entry at ODH suffered from delayed processing due to H1N1 activity prioritization. These records have since been reported to the LHD and partially account for the increased number of Chlamydia reports seen in March 2010. And finally, efforts to enter all STIs into one statewide electronic system have been completed. All LHDs and the state report STIs into the ODRS. This has led to a decrease in duplicate reports and an overall increase in STI data. The next paragraph provides a glimpse into the 2009 data collected in the ODRS.

During 2009, 1,651 Stark County cases of Chlamydia and Gonorrhea were reported to the Ohio Department of Health. The rate of these two diseases combined is 4.35 per 1000 residents. The rate varied significantly based health jurisdiction and zip code: Alliance City had a rate of 5.65, Canton City 11.77, Massillon City 4.14, and Stark County 1.87. The highest rate was seen in the 44704 zip code with 17.87, followed by 44707 with 14.19 and 44703 with 13.47 and 44705 with 11.88. Rates were less than 1 per 1000 in the following zip codes: 44343, 44657, 44685, and 44632. The sex of identified cases was strongly dependent on the disease; only 18% of Chlamydia cases were male as opposed to 36% of Gonorrhea cases. As mentioned earlier, racial data is poorly reported. The 2009 data had greater than 28% of the records missing data on race, an additional 32% were reported as White and 35% were reported as Black.

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

	March 2010				April 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	Data not collected during winter months				1485	65	315	N/A
Mold Count	Data not collected during winter months				4750	130	670	All at Low Levels
Air Quality Index	113	17	31	** 1 Unhealthy for S. G.	114	25	46	** 1 Unhealthy for S. G.

\*\*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**

	Mar-2010	YTD 2010	2009 Total
Live Births	379	1100	4839
Births to Teens	49	123	521
Deaths	359	899	4110

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

\*Source: Ohio Department of Health Data Warehouse

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

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

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**Table 4: Jurisdictional summary of reportable diseases in Stark County, Ohio**

	Alliance City		Canton City		Massillon City		Stark County		All	
	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD	Mar	YTD
Campylobacteriosis	0	0	1	2	2	2	0	2	3	6
Chlamydia infection	7	21	69	183	9	36	52	119	137	359
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	0	0	0
Cryptosporidiosis	0	0	0	0	0	0	2	3	2	3
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	1	2	1	2
E. coli (STP) Unknown serotype	0	0	0	0	0	0	0	0	0	0
Giardiasis	0	0	0	1	0	1	2	5	2	7
Gonococcal infection	1	7	15	49	5	9	9	25	30	90
Haemophilus influenzae bacterial	0	0	0	1	0	0	0	1	0	2
Hepatitis A	0	0	0	0	0	0	0	0	0	0
Hepatitis B - acute	0	0	1	2	0	0	0	0	1	2
Hepatitis B - chronic	0	1	4	5	0	0	2	6	6	12
Hepatitis C - acute	0	0	0	0	0	0	0	2	0	2
Hepatitis C - past or present	3	6	8	22	4	11	10	28	25	67
Influenza A - novel virus infection	0	0	0	0	0	0	0	0	0	0
Influenza-hospitalization	0	0	0	0	0	0	1	1	1	1
Legionellosis	0	0	0	0	1	1	0	0	1	1
Listeriosis	0	0	0	0	0	0	0	0	0	0
Lyme Disease	0	0	0	0	0	0	0	0	0	0
Malaria	0	0	0	0	0	0	0	1	0	1
Meningitis - aseptic/viral	0	1	1	2	0	0	2	4	3	7
Meningitis - bacterial	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	0	0	0	1	0	0	0	0	0	1
Mumps	0	1	0	0	0	0	0	0	0	1
Pertussis	0	0	0	0	0	0	1	3	1	3
Salmonellosis	1	1	0	1	0	0	0	2	1	4
Shigellosis	0	0	0	0	0	0	1	2	1	2
Streptococcal - Group A -invasive	0	0	0	0	0	0	0	0	0	0
Streptococcal-Group B- newborn	0	0	0	0	0	1	1	1	1	2
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	0	0	0	0	0	2	8	2	8
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	2	3	1	1	1	2	4	6
Syphilis, Total	0	0	0	1	0	0	0	0	0	1
Syphilis, Pr & Secondary	0	0	0	0	0	0	0	0	0	0
Varicella	1	2	0	1	0	0	4	6	5	9

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					
	March	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	3	6	11	55	50.8	13.44
Chlamydia	137	358	296	1200	1216	321.61
Creutzfeldt-Jakob Disease	0	0	1	3	1.4	0.37
Cryptosporidiosis	2	3	2	19	18.6	4.92
Cytomegalovirus, Congenital	0	0	1	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	1	3	0.4	0.11
E. coli - enterohemorrhagic (STP) O157:H7	1	2	0	4	2.8	0.74
E coli , STP, Unknown	0	0	0	1	2.2	0.58
Giardiasis	2	7	22	57	43.8	11.58
Gonorrhea	30	90	120	442	567	149.96
Haemo. Influz., Bacteria	0	2	4	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	2	2	2	3	0.79
Hep B, Chronic	6	12	12	40	29.4	7.78
Hep C, Acute	0	2	0	5	2.8	0.74
Hep C, Past or Present	25	67	48	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	1	1	59	195	N/A	N/A
Legionellosis	1	1	1	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	1	0	3	0.6	0.16
Meningitis, Asep	3	7	2	23	40.2	10.63
Meningitis Bac.	0	0	2	5	2.2	0.58
Meningococcal Dis.	0	0	1	1	1.2	0.32
Mumps	0	1	0	1	1	0.26
Pertussis	1	3	5	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	4	14	39	39.4	10.42
Shigellosis	1	2	19	29	51.8	13.70
Strep Inv A GAS	0	0	5	7	7.6	2.01
Strep B Newborn	1	2	1	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	2	8	17	31	31	8.20
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	4	6	3	16	24.2	6.40
Syphilis, Total	0	1	2	9	14	3.70
Syphilis, Pri & Secondary	0	0	0	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#	5	9	20	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