

*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 might be under investigation; and, at any given time, data might fluctuate from month to month for a specific category.

**IN THE NEWS:**

With half of the 2010 year complete, Stark County has surpassed the average number of expected Mycobacterial disease Other Than Tuberculosis (MOTT) cases. Through June, there have been 19 confirmed individuals with MOTT and the average number of cases seen each year is 17. This year, individuals with MOTT range in age from 42 – 91 years with a median of 67 years, and are nearly equally represented by each sex. Individuals with MOTT are not considered infectious and are not dangerous to other people. These individuals most commonly manifest the illness as pulmonary disease.

In 2010, 3 types of MOTT have been identified *M. avium complex* (MAC), *M. chelonae*, and *M. gordonae*. The Centers for Disease Control and Prevention (CDC) suggest an expected incidence rate for MAC of 1/100,000/year; the Stark County incidence rate for 2010 is 2.4/100,000/6 months.

Unlike MOTT’s close relative, *M tuberculosis*, the source for all three of these is thought to be from inhalation of environmental exposures and/or ingestion via the GI tract. The organisms are ubiquitous in distribution with identification throughout the world. They have been found in natural and processed water sources, tap water, and in sewage. Some mycobacterium, particularly MAC, are known to be found in house dust, soil, birds, farm animals and cigarette components such as tobacco.

The most important risk factor for mycobacterium infection in Stark County residents appears to be underlying lung disease. For more information on MAC and other mycobacterial diseases, see the following CDC website: [http://www.cdc.gov/ncidod/dbmd/diseaseinfo/mycobacteriumavium\\_t.htm](http://www.cdc.gov/ncidod/dbmd/diseaseinfo/mycobacteriumavium_t.htm).

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

	June 2010				Jul 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	90	5	25	N/A	35	5	18	N/A
Mold Count	11,190	1,560	5,368	3 Moderate	12,670	1,350	4,600	5 Moderate
Air Quality Index	90	24	55	3 Moderate	68	25	51	11 Moderate

\*\*See the following website for updated Air Quality Index terminology and color coding <http://www.aimow.gov/index.cfm?action=aqbasics.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**

	June-2010	YTD 2010	2009 Total
Live Births	355	2237	4839
Births to Teens	38	232	521
Deaths	332	2063	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.

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](mailto:Schanzk@starkhealth.org) or Christina Henning at 330.489.3327 or [Chenning@cantonhealth.org](mailto:Chenning@cantonhealth.org).

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

	Alliance City		Canton City		Massillon City		Stark County		All	
	June	YTD	June	YTD	June	YTD	June	YTD	June	YTD
Campylobacteriosis	0	0	1	6	0	2	7	12	8	20
Chlamydia infection	7	51	68	377	8	61	21	195	104	684
Cryptosporidiosis	0	0	0	0	0	0	5	10	5	10
E. coli - enterohemorrhagic (stp) O157:H7	0	0	0	0	0	0	0	2	0	2
Giardiasis	0	0	1	4	1	2	4	12	6	18
Gonococcal infection	5	18	10	94	3	20	6	55	24	187
Haemophilus influenzae (invasive disease)	0	0	0	1	0	0	0	2	0	3
Hepatitis B (including delta) - acute	0	0	0	2	0	0	0	0	0	2
Hepatitis B (including delta) - chronic	0	3	1	9	1	1	2	10	4	23
Hepatitis C - acute	0	0	0	0	0	0	0	1	0	1
Hepatitis C - chronic	1	10	10	43	2	16	12	56	25	125
Influenza-associated hospitalization	0	0	0	0	0	0	0	1	0	1
Legionellosis - Legionnaires' Disease	0	0	0	0	2	3	2	3	4	6
Lyme Disease	0	0	0	0	0	0	1	2	1	2
Malaria	0	0	0	0	0	0	0	1	0	1
Meningitis - aseptic/viral	0	1	0	4	0	0	3	10	3	15
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	0	0	0
Meningococcal disease - Neisseria meningitidis	0	0	0	1	0	0	0	0	0	1
Mumps	0	1	0	0	0	0	0	0	0	1
Mycobacterial disease - not tuberculosis	0	2	0	3	2	2	4	11	6	18
Pertussis	1	3	0	1	0	0	1	5	2	9
Salmonellosis	1	2	0	3	0	0	6	16	7	21
Shigellosis	0	0	0	0	0	0	0	4	0	4
Streptococcal - Group A -invasive	0	0	0	0	0	0	1	3	1	3
Streptococcal - Group B - in newborn	0	0	0	0	0	1	0	1	0	2
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	0	0	1	1	1	1	11	2	13
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	1	1	0	3	0	1	2	5	3	10
Syphilis, Total	0	2	0	2	0	0	1	3	1	7
Syphilis, Pr & Secondary	0	1	0	0	0	0	1	3	0	4
Tuberculosis	0	2	0	0	0	0	0	1	0	3
Varicella	0	2	1	4	0	0	3	20	4	26

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					
	Jun 2010	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	8	20	23	55	50.8	13.44
Chlamydia	104	684	596	1191	1216	321.61
Creutzfeldt-Jakob Disease	0	0	1	3	1.4	0.37
Cryptosporidiosis	5	10	8	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	0	2	2	4	2.8	0.74
E coli , STP, Unknown	0	0	1	1	2.2	0.58
Giardiasis	6	18	39	57	43.8	11.58
Gonorrhea	24	187	223	436	567	149.96
Haemo. Influz., Bacteria	0	3	6	9	5.8	1.53
Hemolitic Uremic Syndrome	0	0	0	0	0.8	0.21
Hepatitis A	0	0	1	2	3	0.79
Hep B, Acute	0	3	2	2	3	0.79
Hep B, Chronic	4	23	22	39	29.4	7.78
Hep C, Acute	0	1	1	4	2.8	0.74
Hep C, Past or Present	25	125	88	193	216.6	57.29
Herpes, Congenital	0	0	0	1	0.4	0.11
Influenza A - novel virus infection	0	0	2	2	0.4	0.11
Influenza-Hospitalized	0	1	59	194	N/A	N/A
Legionellosis	4	6	5	21	14.8	3.91
Listeriosis	0	0	1	4	3.2	0.85
Lyme Disease	0	1	1	4	1.4	0.37
Malaria	0	1	0	3	0.6	0.16
Meningitis, Asep	3	15	6	23	40.2	10.63
Meningitis Bac.	1	1	2	5	2.2	0.58
Meningococcal Dis.	0	1	1	1	1.2	0.32
Mumps	0	1	0	1	1	0.26
Mycobacterial disease - other than tuberculosis	6	19	5	20	16.8	4.44
Pertussis	2	9	21	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	7	21	22	39	39.4	10.42
Shigellosis	0	4	23	28	51.8	13.7
Strep Inv A GAS	1	3	6	7	7.6	2.01
Strep B Newborn	0	2	1	5	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	13	25	31	31	8.2
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	3	10	9	16	24.2	6.4
Syphilis, Total	1	7	3	9	14	3.7
Syphilis, Pri & Secondary	1	4	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#	4	26	37	61	121	32
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