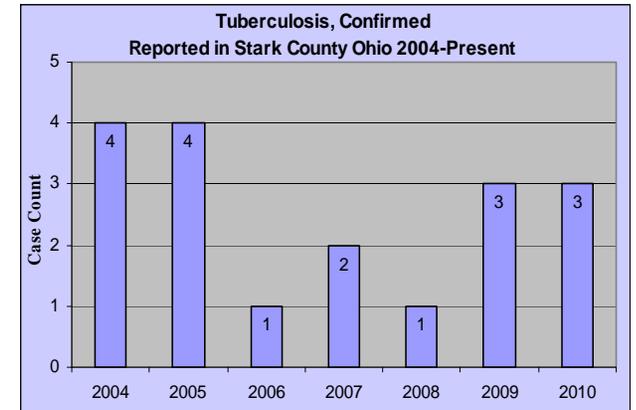


EPI Gram is a monthly publication of the Stark County Public Health Coalition. It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for Stark County, Ohio. Some reportable conditions may be under investigation; and, at any given time, data may fluctuate from month to month for a specific category.

IN THE NEWS:

Travel related illness: In the month of February, 2 cases of shigellosis, 1 case of salmonellosis, and 1 case of malaria were diagnosed in residents with a recent history of international travel for humanitarian aid and/or to rural areas. The Centers for Disease Control and Prevention offers specific health recommendations for international travelers based on the destination and the type of travel, including specific vaccinations and preventive medications. Despite these recommendations, travelers can become ill from contaminated food and water, insects, etc. Anyone with a recent travel history who becomes ill should report their dates of travel and destination to their physician.

Tuberculosis: During February, 3 cases of suspect pulmonary TB were identified in Stark County. All 3 of these have since been confirmed, the same number as were reported during all of 2009. (See graph) Of particular note, these three cases ranged in age from 82 to 87 years and all were born in the United States. One case described a known exposure to a household contact with TB in 1967. This same case also had a history of a positive TB skin test and Diabetes; however, treatment was not recommended by the assessing physician. Of the remaining two cases, neither recalled any known contact to a case of TB and one had a health history which included Diabetes.



There has been a known link between tuberculosis and diabetes for over a decade. In 1997, a study from Columbia University appeared in the American Journal of Public Health, which named diabetes as a risk factor for tuberculosis. A more recent University of Texas study in 2008 reaffirmed the earlier results and found Type 2 diabetes, especially Type 2 diabetes involving chronic high blood sugar, is associated with altered immune response to TB. Joseph B. McCormick, M.D., regional dean from the University of Texas, is quoted as saying, "It opens a door to doing something about it." Professor James H Steele, also from the University of Texas, continued "We can educate physicians and offer more TB screenings. We have an opportunity to make sure patients are diagnosed correctly and that there is no delay in diagnosis."

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

	February 2010				March 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	111	6	58	** 1 Unhealthy for S. G.	79	16	42	** 8 Moderate

**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

	Feb-2010	YTD 2010	2009 Total
Live Births	263	721	4839
Births to Teens	24	74	521
Deaths	333	639	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 or Christina Henning at 330.489.3327 or Chenning@cantonhealth.org.

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

	Alliance City		Canton City		Massillon City		Stark County		All	
	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD	Feb	YTD
Campylobacteriosis	0	0	0	1	0	0	1	2	1	3
Chlamydia infection	8	13	56	113	17	27	35	62	116	215
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	0	0	0
Cryptosporidiosis	0	0	0	0	0	0	1	1	1	1
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	1	1	1
E. coli (STP) Unknown serotype	0	0	0	0	0	0	0	0	0	0
Giardiasis	0	0	0	1	0	1	1	1	1	3
Gonococcal infection	2	6	15	33	2	4	9	16	28	59
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	0	1	0	0	0	0	0	1
Hepatitis B - chronic	1	1	0	1	0	0	3	4	4	6
Hepatitis C - acute	0	0	0	0	0	0	1	1	1	1
Hepatitis C - past or present	3	3	8	14	3	7	11	17	25	41
Influenza A - novel virus infection	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
Malaria	0	0	0	0	0	0	1	1	1	1
Meningitis - aseptic/viral	1	1	1	1	0	0	1	2	3	4
Meningitis - bacterial	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	0	0	1	1	0	0	0	0	1	1
Mumps	1	1	0	0	0	0	0	0	1	1
Pertussis	0	0	0	0	0	0	1	2	1	2
Salmonellosis	0	0	0	1	0	0	2	2	2	3
Shigellosis	0	0	0	0	0	0	1	1	1	1
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	0	0	0	0	2	2	2	2
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	1	1	0	0	1	1	2	2
Syphilis, Total	0	0	1	1	0	0	0	0	1	1
Syphilis, Pr & Secondary	0	0	0	0	0	0	0	0	0	0
Varicella	0	1	0	2	0	0	0	0	0	3

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					
	Feb	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	1	3	6	55	50.8	13.44
Chlamydia	120	222	193	1200	1216	321.61
Creutzfeldt-Jakob Disease	0	0	1	3	1.4	0.37
Cryptosporidiosis	1	1	1	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	0	3	0.4	0.11
E. coli - enterohemorrhagic (STP) O157:H7	1	1	0	4	2.8	0.74
E coli , STP, Unknown	0	0	0	1	2.2	0.58
Giardiasis	1	4	11	57	43.8	11.58
Gonorrhea	28	59	77	442	567	149.96
Haemo. Influz., Bacteria	0	2	3	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	0	1	2	2	3	0.79
Hep B, Chronic	4	6	10	40	29.4	7.78
Hep C, Acute	0	2	0	5	2.8	0.74
Hep C, Past or Present	26	43	31	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	44	195	N/A	N/A
Legionellosis	0	0	1	21	14.8	3.91
Listeriosis	0	0	1	5	3.2	0.85
Lyme Disease	0	0	0	4	1.4	0.37
Malaria	1	1	0	3	0.6	0.16
Meningitis, Asep	1	4	1	23	40.2	10.63
Meningitis Bac.	0	0	1	5	2.2	0.58
Meningococcal Dis.	1	1	1	1	1.2	0.32
Mumps	1	1	0	1	1	0.26
Pertussis	1	2	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	2	3	11	39	39.4	10.42
Shigellosis	1	1	15	29	51.8	13.70
Strep Inv A GAS	0	0	4	7	7.6	2.01
Strep B Newborn	0	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	2	5	12	31	31	8.20
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	1	2	3	16	24.2	6.40
Syphilis, Total	1	0	3	9	14	3.70
Syphilis, Pri & Secondary	0	0	3	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	4	15	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