

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

**Monthly Highlight: Tuberculosis (TB) in the United States, Ohio and Stark County.**

The CDC recently released the United States 2010 TB annual report. The report describes current and changing trends in the United States and includes state data. Comparing 2009 to 2010, the US has seen an overall 3.8% decrease in cases of TB and continues shifting to a predominance of foreign-born cases. With 11,182 cases of TB in the US in 2010, the rate per 100,000 population is 3.6. Ohio had 190 of these cases for a low incidence rate of 1.6 per 100,000 population. Stark County is also considered to have a low incidence with only 5 cases reported in 2010 for a rate of 1.3 per 100,000.

The majority of cases nationwide are foreign borne, this contrasts with Ohio where 54% of 2010 cases are US born. Since 2009, 67% of Stark County's cases are US born; foreign countries of birth among diagnosed TB cases in Stark county are China, Guatemala and Pakistan. In the US, the predominant foreign countries of birth are Mexico, Philippines, India Vietnam and China.

Of all cases in the United States, Hispanics make up the largest racial and ethnic group at 29% of cases; followed closely by Asians (28%) and Non Hispanic African Americans (27%). The largest ethnic group of foreign-born cases of TB identified in the US is Asian (44%) and in US born TB cases is Non Hispanic African Americans (40%). Since 2009 Stark County cases were relatively equally dispersed among racial and ethnic groups: Non Hispanic White (3), Hispanic (2), Asian (2), and Non Hispanic African American (2). To date in 2011 only one case of TB has been confirmed in Stark County and the individual was not born in the US.

Age groups diagnosed with TB are slightly different in Ohio and Stark County when compared with the US. The largest age group affected in Ohio is 45-64 years old with 34% of cases, this is followed by 25-44 year olds (27.9%) and 65 and older (23.7%). In Stark County, cases are primarily aged 65 and older; since 2002 42% of cases were ≥ 65, and in 2010, 60% of cases were ≥ 65 years. In the US, the largest age group diagnosed is 25-44 year olds with 32.8% of cases; this is followed by 45-64 year olds with 30.8% and individuals aged 65 and older with 19.9% of cases.

In summary individuals in Stark County diagnosed with TB tend to be older, white, and US born individuals. However, as Stark County continues to have a shift to a more diverse population, we could begin to mirror US trends of a younger to middle aged foreign-borne and diverse population diagnosed with TB. To view the complete 2010 CDC TB report, visit the following website: <http://www.cdc.gov/tb/statistics/reports/2010/default.htm>.

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

	September 2011				October 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	230	5	20	N/A	10	2	3	N/A
Mold Count	27,360	3,740	9,701	3 High	6,280	3,010	3,655	All Good
Air Quality Index	132	16	41	1 Unhealthy for Sensitive Groups	59	14	31	3 Moderate

\*\*See the following websites for updated Air Quality Index and mold index terminology and color-coding <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> [https://pollen.aaaai.org/nab/index.cfm?p=reading\\_charts](https://pollen.aaaai.org/nab/index.cfm?p=reading_charts)  
Data source for this table is the Air Quality Division of the Canton City Health Department.

**Table 2 Summaries of Select Vital Statistics for Stark County**

	Sep 2011	YTD 2011	2010 Total
Live Births	360	3158	4521
Births to Teens	22	303	457
Deaths	339	3288	4102

**Table 3 Stark County Crude Birth and Death Rates**

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

\*Source: Ohio Department of Health Data Warehouse. Rates are per 100,000 population.

If you have any questions, including how to receive copies of this report, please contact Christina Henning at 330.489.3327 or [Chenning@cantonhealth.org](mailto:Chenning@cantonhealth.org).

**Table 4: 2011 Jurisdictional Summary of Reportable Diseases in Stark County, OH**

	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Sep	YTD	Sep	YTD	Sep	YTD	Sep	YTD	Sep	YTD
Campylobacteriosis	0	4	1	5	0	4	0	19	1	32
Chlamydia infection	19	104	67	539	16	105	34	345	136	1093
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	2	0	2
Cryptosporidiosis	0	0	0	3	0	0	2	10	2	13
Dengue	0	0	0	0	0	0	1	2	1	2
E Coli (STP) NOT O157:H7	0	0	0	0	0	0	1	2	1	2
E Coli (STP) O157:H7	0	0	0	0	0	1	0	1	0	2
Ehrlichiosis	0	0	0	1	0	0	0	0	0	1
Giardiasis	1	2	2	12	0	2	3	39	6	55
Gonococcal infection	7	62	26	278	8	32	4	98	45	470
Haemophilus influenzae	0	1	0	1	0	0	0	3	0	5
Hepatitis A	0	0	0	0	0	0	0	1	0	1
Hepatitis B- Perinatal Infection	0	0	0	0	0	0	1	2	1	2
Hepatitis B- Acute	0	0	0	0	0	0	0	1	0	1
Hepatitis B-Chronic	0	1	0	6	0	2	0	7	0	16
Hepatitis C - acute	0	0	0	1	0	2	0	1	0	4
Hepatitis C - chronic	1	14	8	67	3	25	13	91	25	197
Influenza-associated hospitalizations	0	8	0	41	0	12	0	79	0	140
LaCrosse Virus	0	0	0	0	0	0	0	1	0	1
Legionellosis	0	0	0	0	0	1	0	3	0	4
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	1	0	2	1	1	0	7	1	11
Malaria	0	0	0	0	0	0	0	1	0	1
Meningitis - aseptic/viral	3	9	1	14	0	12	5	20	9	55
Meningitis - bacterial (Not N. meningitidis)	0	0	0	1	0	1	0	0	0	2
Meningococcal disease -	0	0	0	0	0	0	0	1	0	1
Mycobacterial disease-Not TB	0	2	0	2	0	1	5	15	5	20
Pertussis	0	0	0	0	0	0	0	10	0	10
Rocky Mountain Spotted Fever	0	1	0	0	0	0	0	1	0	2
Salmonellosis	0	1	0	2	0	0	2	22	2	25
Streptococcal - Group A -Invas	0	0	0	4	0	0	3	14	3	18
Streptococcal -Group B in Newborn	0	0	0	1	0	0	0	1	0	2
Streptococcus Toxic Shock STSS	0	0	0	1	0	0	0	1	0	2
Strep pneumo resistance unk or non-resistant	0	2	0	5	0	4	1	18	1	29
Strep pneumo antibiotic resistant/intermediate	2	4	0	2	0	2	0	7	2	15
Syphilis, Pr & Secondary	0	1	0	5	0	0	1	2	1	8
Syphilis, Total	0	0	0	4	0	0	0	0	0	4
Varicella	1	4	0	2	0	1	1	10	2	17

Source: Ohio Disease Reporting System, downloaded 10/17/2011.

**Table 5 – 2011 Summary Table of Diseases Reported in the previous 5 years within Stark County, OH.  
(Provisional Data)**

	Sep-11	YTD 2011	YTD 2010	All of 2010	5 Yr annual average	Rate
Campylobacteriosis	1	32	38	50	52	13.7
Chlamydia	136	1093	987	1333	1188	313.12
Coccidioidomycosis	0	0	0	0	1	0.26
Creutzfeldt-Jakob Disease	0	2	0	0	3	0.7
Cryptosporidiosis	2	13	19	23	22	5.8
Cytomegalovirus, Congenital	0	0	0	0	1	0.26
Dengue	1	2	1	1	1	0.26
E. coli - enterohemorrhagic (STP) NOT O157:H7	1	2	1	1	2	0.53
E. coli - enterohemorrhagic (STP) O157:H7	0	2	3	3	3	0.9
E coli , STP, Unknown	0	0	1	1	1	0.37
Ehrlichiosis (Anaplasmosis)	0	1	0	0	1	0.26
Encephalitis - post other infection	0	0	0	0	1	0.26
Encephalitis - primary viral	0	0	0	0	2	0.53
Giardiasis	6	55	44	69	49	12.86
Gonorrhea	45	470	300	409	527	138.83
Haemo. Influz., Bacteria	0	5	7	8	6	1.63
Hemolytic Uremic Syndrome	0	0	0	0	2	0.53
Hepatitis A	0	1	0	0	5	1.19
Hepatitis B - Perinatal Infection	1	2	0	2	4	1.05
Hep B, Acute	0	1	4	5	5	1.21
Hep B, Chronic	0	16	33	38	39	10.38
Hep C, Acute	0	4	4	4	4	1.05
Hep C, Past or Present	25	197	183	228	232	61.09
Herpes, Congenital	0	0	0	0	1	0.26
Influenza-Hospitalized	0	140	1	7	N/A	N/A
LaCrosse virus disease	0	1	2	2	2	0.53
Legionellosis	0	4	14	16	15	3.9
Listeriosis	0	1	1	1	3	0.79
Lyme Disease	1	11	2	4	3	0.79
Malaria	0	1	2	2	3	0.66
Meningitis, Asep	9	55	21	33	38	9.91
Meningitis Bac.	0	2	2	2	3	0.74
Meningococcal Dis.	0	1	1	2	1	0.32
Mumps	0	0	1	1	2	0.4
Mycobacterial disease - other than tuberculosis	5	20	27	32	22	5.69
Pertussis	0	10	82	106	35	9.22
Rheumatic fever	0	0	0	0	1	0.26
Q Fever, Chronic	0	0	0	0	0	0
Rocky Mountain Spotted	0	2	1	1	1	0.26
Salmonellosis	2	25	32	34	41	10.8
Shigellosis	0	0	4	4	51	13.33
Strep Inv A GAS	3	18	7	12	10	2.53
Strep B Newborn	0	2	2	4	4	0.95
Strep toxic shock (STSS)	0	2	0	0	2	0.4
Strep pneumo - invasive antibiotic resistance unk or non-resistant	1	29	15	25	28	7.48
Streptococcus pneumo - invasive antibiotic resistant/intermediate	2	15	12	20	24	6.27
Syphilis, Total	1	8	7	10	14	3.74
Syphilis, Pri & Secondary	0	4	3	4	4	1.16
Toxic shock syndrome (TSS)	0	0	0	1	2	0.4
Typhoid Fever	0	0	0	0	1	0.26
Varicella#	2	17	32	57	119	31.41
Vibriosis	0	1	0	0	0	0
West Nile Virus	0	0	0	0	2	0.53
Yersiniosis	0	0	0	0	3	0.88

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 379,466