

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:

Ehrlichiosis-Ehrlichia chaffeensis . Stark County received the first report of Ehrlichiosis-Ehrlichia chaffeensis (formerly known as HME, Human Monocytic Ehrlichiosis) on record in June. Cases of Ehrlichia have steadily increased, from less than 100 US cases in 1999 to greater than 600 in 2006. Increased age is associated with significantly higher rates of infection.

Ehrlichia is a tick-borne disease caused by bacteria from the Ehrlichia genus. Animals and ticks maintain Ehrlichia infection in a natural host reservoir cycle. The lone star tick serves is the primary vector for infection. It is capable of transmitting the bacteria to humans, and natural hosts such as dogs, deer and goats. The lone star tick is native throughout southeastern and south-central states, but can be found as far north as Maine. Ehrlichia infections are often associated with travel or residence in Arkansas, Tennessee, Missouri and Oklahoma.

Exposure to the lone star tick is also associated with a newly identified infection referred to as southern tick-associated rash illness (STARI). STARI symptoms include a rash similar to that seen in Lyme disease and fatigue, headache, fever, and muscle and joint pains. CDC is conducting studies to learn more about STARI. Physicians seeing patients with a recent lone star tick bite and an expanding rash at least 5 centimeters in diameter are encouraged to contact CDC at 970-221-6400 for more information. Patients must be at least 4 years old to participate.

Stark County Tuberculosis Case Registry, 2nd Quarter Report 2009	2nd Quarter 2009	YTD 2009
Suspect Cases of Reported Mycobacterium TB	7	16
Culture Confirmed Mycobacterium Tuberculosis (TB)	1	1
Culture Confirmed Mycobacterium Other Than TB (MOTTs)	2	6
Not TB, Not MOTTs	2	3
Suspects Pending	2	N/A

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

	June 2009				July 2009			
	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	100	5	49.5	N/A	35	5	18	N/A
Mold Count	7100	2570	4586	2 Moderate	12670	1350	4400	2 Moderate
Air Quality Index	80	34	51.3	8 Moderate	38	25	50	10 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

	June-09	YTD 2009	2008 Total
Live Births	415	2389	5169
Births to Teens	51	244	580
Deaths	225	1407	4027

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 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-Jurisdictional summary of reportable diseases in Stark County, Ohio in June 2009.

	Alliance		Canton		Massillon		Stark		County Totals	
	Jun	YTD 09	Jun	YTD 09	Jun	YTD 09	Jun	YTD 09	Jun	YTD 09
Campylobacteriosis	1	2	0	2	0	1	1	18	2	23
Chlamydia	15	60	53	339	16	54	31	161	115	614
Creutzfeldt-Jakob Ds	0	0	0	0	0	1	0	0	0	1
Cryptosporidiosis	0	1	0	2	0	0	0	5	0	8
Cytomegalovirus, Congenital	0	1	0	0	0	0	0	0	0	1
E. coli - enterohemorrhagic (STP) O157:H7	0	0	0	0	0	0	0	2	0	2
E coli , STP, Unknown	0	0	0	0	1	1	0	1	1	2
Ehrlichiosis Ehrlichia chaffeensis	0	0	0	0	0	0	1	1	1	1
Giardiasis	0	1	0	8	0	3	2	28	2	40
Gonorrhea	2	8	33	167	4	21	7	34	46	230
Haemo. Influz., Bac	0	0	0	2	0	1	0	3	0	6
Hepatitis A	0	0	0	1	0	0	0	0	0	1
Hep B, Acute	0	0	0	0	0	0	0	2	0	2
Hep B, Chronic	0	0	3	6	0	3	1	14	4	23
Hep C, Acute	0	0	0	0	0	1	1	1	1	2
Hep C, Past or Present	1	3	11	49	3	13	5	27	20	92
Influenza A - novel virus infection	0	0	0	0	0	0	2	2	2	2
Influenza-Hospitalized	0	1	0	30	0	4	0	27	0	62
LaCrosse Encephalitis	0	0	0	0	0	0	0	0	0	1
Legionellosis	0	0	1	2	0	1	1	2	2	5
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	0	0	0	0	0	1	2	1	2
Meningitis, Asep	1	2	0	0	0	0	2	4	3	6
Meningitis Bac.	0	1	0	0	0	0	0	1	0	2
Meningococcal Dis.	0	0	0	0	0	0	0	1	0	1
Pertussis	0	8	2	3	0	0	1	10	3	21
Salmonellosis	0	1	0	0	0	1	6	20	6	22
Shigellosis	1	1	0	8	0	2	0	13	1	24
Strep Inv A GAS	0	0	0	1	0	0	1	5	1	6
Strep B Newborn	0	0	0	1	0	0	0	0	0	1
Strep pneumo, Invasive < 5 Yrs	0	1	0	0	0	0	0	0	0	1
Invasive Strep pneumo, Resistant, 5+ Yrs	0	1	0	4	0	1	2	3	2	9
Invasive Strept pneumo, Suscep or Unk, 5+ Yrs	0	2	0	3	0	1	1	20	1	26
Syphilis, Total	0	0	0	2	0	0	0	1	0	3
Syphilis, Pri & Secondary	0	0	0	2	0	0	0	0	0	2
Varicella#	0	3	0	5	0	1	3	28	3	37

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					
	June	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	2	23	15	56	48	12.7
Chlamydia	116	625	523	1122	1174.8	310.71
Creutzfeldt-Jakob Disease	0	1	3	3	0.8	0.21
Cryptosporidiosis	0	9	8	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	1	1	0.2	0.05
Enceph, Primary viral	0	0	2	2	1.8	0.48
E. coli - enterohemorrhagic (STP) O157:H7	0	2	0	1	2.8	0.74
E coli , STP, Unknown	1	2	1	1	2	0.53
Ehrlichiosis, Ehrlichia chaffeensis	1	1	0	0	0	0
Giardiasis	0	40	17	38	43.2	11.43
Gonorrhea	46	231	237	592	599	158.42
Haemo. Influz., Bacteria	0	6	5	8	5.6	1.48
Hemolitic Uremic Syndrome	0	0	1	2	0.8	0.21
Hepatitis A	0	1	3	4	2.8	0.74
Hep B, Acute	0	2	1	4	3.4	0.9
Hep B, Chronic	5	22	16	35	23.6	6.24
Hep C, Acute	1	2	0	5	1.8	0.48
Hep C, Past or Present	20	93	119	215	221.5	58.58
Herpes, Congenital	0	0	0	1	0.4	0.11
Influenza A - novel virus infection	2	2	0	0	0	0
Influenza-Hospitalized	0	62	N/A	N/A	N/A	N/A
LaCrosse Encephalitis	0	0	0	0	0.2	0.05
Legionellosis	2	5	4	16	12	3.17
Listeriosis	0	1	2	3	2.8	0.74
Lyme Disease	1	1	0	1	0.6	0.16
Meningitis, Asep	3	6	10	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	3	21	1	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	6	22	14	44	41.4	10.95
Shigellosis	1	24	43	213	46.6	12.32
Strep Inv A GAS	1	6	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	3	3	4.8	1.27
Strep pneumo, Invasive Disease, Drug Resistant, Ages 5+ Yrs	2	9	18	25	21	5.55
Strept pneumo, Invasive, Susceptible or Unk, Ages 5+ Yrs	1	26	18	27	24.8	6.56
Syphilis, Total	0	3	10	17	22.8	6.03
Syphilis, Pri & Secondary	0	2	7	11	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#	3	37	35	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

This report includes confirmed, probable and suspect cases, as reported in the Ohio Disease Reporting System (ODRS).

*Annual Rate is derived from a five year average and based on an estimate population of 378,098