

EPI GRAM-August, 2008

A Monthly Publication of the Stark Public Health Infrastructure Coalition

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:

Shigella continues to dominate communicable disease management in Stark County. The population affected is primarily daycare attendees, workers and/or their contacts. People who test positive with Shigella and work in a sensitive setting, which includes daycare attendees/workers, those working directly with patients, and food service workers must be excluded from the setting and cleared prior to their return. Clearance requires two negative stool samples taken 24 hours apart and at least 48 hours after completion of antibiotics. The requirement for clearance testing is in accordance with the Ohio Administrative Codes 3701-3-01 through 3701-3-31.

West Nile Virus: A second positive bird was identified in Stark County. This combines with a positive mosquito pool to confirm the potential for exposure to West Nile Virus in residents of Stark County. Symptoms for West Nile Virus may take on two distinct clinical pathways, Fever or Severe Disease. Clinical symptoms for fever include: Fever, Headache, Fatigue, Skin rash on the trunk of the body (occasionally), Swollen lymph glands (occasionally), and Eye pain (occasionally). Symptoms for severe disease are dependent on the clinical pathway: West Nile Meningitis, West Nile Encephalitis, and West Nile Poliomyelitis. A full description and history of the disease can be found at:

<http://www.cdc.gov/ncidod/dvbid/westnile/clinicians/clindesc.htm>.

Haemophilus Influenzae (*H. Influenzae*), Invasive Disease: Stark County and the State of Ohio have reported an elevation of *H. Influenzae*. Stark County has already surpassed its five year average and as of the printing of this report, the state has seen a 35% increase in the number of cases as compared to the same time period in 2007. High vaccination rates of the *H. influenzae* type b (Hib) vaccine have nearly eliminated it as a source of severe illness in children. The Stark County cases range in age from 33 to 83 years and have a median of 68 years. Clinically, invasive disease caused by *H. influenzae* may produce any of several clinical syndromes, including meningitis, bacteremia, epiglottitis or pneumonia. Diagnosis is confirmed in clinically compatible cases through laboratory testing and is a reportable disease in Ohio.

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

	August 2008				September 2007			
	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	195	10	57.4	N/A	165	5	34.7	N/A
Mold Count	14,160	3,990	8,460	2 High	16,310	2,450	7,816	2 High
Air Quality Index	54	19	35.9	All Good	101	16	49.9	1 UH sg*

Pollen and Mold counts are derived from rotorod samples on the 2nd story roof of the Canton City Health Department. The readings are from a 24-hour period/24-hour avg. on all work days. Mold counts of 6,500-12,999 are moderate and many individuals sensitive to molds may experience symptoms. Counts of 13,000 to 49,999 are high and most individuals with any sensitivity to molds will experience symptoms. These indices are produced from March to October. The Air Quality Index (AQI) is derived by comparison to EPA standards from the following readings: Particulate Matter 2.5 continuous monitoring on CCHD 2nd floor roof top and ozone monitors in Canton, Brewster, and Alliance. AQI ratings are 151-200: unhealthy (UH); 101-150: unhealthy for sensitive groups *(UH sg); 51-100: moderate (M); 0-50: good (g).

Table 2 Summary of Select Vital Statistics for Stark County, Ohio

	Aug 2008	YTD 2008	2007 Total
Live Births	56	2995	5057
Births to Teens	11	367	537
Deaths	245	2848	4061

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

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.

	2003	2004	2005	2006	2007
Birth	1260	1240	1211	1282	1342
Death	1110	1040	1140	1076	1076

Table 4 – Summary of Select Reportable Diseases for Aug 2008 in Stark County, Ohio (provisional data only)

Refer to “Case Definitions for Infectious Conditions Under Public Health Surveillance,” MMWR (Morbidity and Mortality Weekly Report) 1997; 46 (No. RR-10), the Ohio Department of Health Infectious Disease Control Manual or visit www.cdc.gov/epo/dphsi/casedef/index.htm for case definitions. This report includes confirmed, probable and suspect cases.

	Alliance City			Canton City			Massillon City			Stark County			Stark County Totals			
	Aug 2008	YTD 2008	YTD 2007	Aug 2008	YTD 2008	YTD 2007	Aug 2008	YTD 2008	YTD 2007	Aug 2008	YTD 2008	YTD 2007	Aug 2008	YTD 2008	YTD 2007	5 Year annual average
Amebiasis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Campylobacteriosis	0	1	3	0	8	6	0	4	1	6	27	25	6	40	35	51.8
Chlamydia	17	67	62	40	365	405	4	54	49	22	173	193	83	659	709	1126.4
Creutzfeldt-Jakob Ds	0	0	0	0	0	0	0	0	0	0	3	2	0	3	2	0.6
Cryptosporidiosis	0	2	0	1	2	2	0	0	2	1	14	8	2	18	12	14
E Coli 0157	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2.4
E Coli	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	3
Enceph., WNV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6
Enceph., Other	0	1	1	0	0	0	0	0	0	0	2	0	0	3	1	2.8
Giardiasis	0	1	4	0	7	6	0	1	3	2	15	17	2	23	30	49.2
Gonorrhea	2	13	11	28	279	280	2	20	36	9	62	81	41	374	408	646
Haemo. Influz., Bac	0	0	0	0	2	1	0	0	0	1	5	0	1	7	1	5.8
Hepatitis A	0	0	1	0	0	1	0	3	0	0	0	5	0	3	7	8
Hepatitis B*	0	1	1	0	9	8	0	5	3	4	12	15	4	27	27	44.6
Hepatitis C*#	2	19	19	7	55	66	1	14	14	4	72	76	14	161	175	273.5
Kawasaki Syndrome	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	3.6
Legionellosis	0	0	0	0	4	2	0	0	0	1	6	3	1	10	5	12.2
Listeriosis	0	0	0	0	0	0	0	0	0	0	2	1	0	1	1	2.4
Lyme Disease	0	0	0	0	1	0	0	0	0	0	3	0	0	4	0	2.6
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8
Meningitis, Asep	1	3	0	2	6	14	0	1	3	1	10	15	4	20	32	53.8
Meningitis Bac.	0	0	0	0	1	0	0	0	0	0	2	1	0	3	1	4.4
Meningococcal Dis.	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	2.4
Mumps	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0.4
Pertussis	0	0	0	0	0	2	0	0	0	0	0	5	0	0	7	17
Salmonellosis	0	0	3	0	2	4	1	3	2	4	17	18	5	22	27	49.4
Shigellosis	0	0	0	5	38	1	9	31	0	13	44	0	27	113	1	11.8
Strep Inv A GAS	0	0	1	1	2	3	0	0	0	0	8	3	1	10	7	12.2
Strep B Newborn	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	2
Strep Pneu ISP	0	2	0	0	8	15	0	3	1	2	29	23	2	42	39	47.8
TSS Strep & Staph	0	1	0	0	0	0	0	0	0	0	1	2	0	2	2	0.4
Syphilis	0	0	1	0	6	0	0	1	0	0	1	7	0	8	8	21.6
Typhoid Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Varicella#	0	2	6	0	7	18	0	2	4	0	26	92	0	37	120	#
Vibriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0.2
Yersiniosis	0	0	0	0	1	0	0	0	1	0	2	4	0	3	5	2

*This includes all hepatitis reports; acute, chronic, status not known, and perinatal. # Incomplete 5 yr average due to a change in reporting.

If you have any questions, including how to receive copies of this report, please contact Karen Schanz at (330) 493-9928 x287 or Schanzk@starkhealth.org or Christina Henning at (330) 489-3327 or Chenning@cantonhealth.org.