

October – 2005

EPI Gram is a monthly publication of the Stark County Public Health Coalition. It is a summary of provisional communicable disease reports and other key public health indicators in Stark County, Ohio. This report includes confirmed, probable and suspect cases. Some reportable conditions may be under investigation, and at any given time, data may fluctuate from month to month for a specific disease category.

Please 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.

Table 1 – Summary of Select Reportable Diseases for Oct 2005 in Stark County, Ohio (provisional data only)

	Alliance City Health			Canton City Health			Massillon City Health			Stark County Health			Stark County Totals			
	Oct 2005	YTD 2005	YTD 2004	Oct 2005	YTD 2005	YTD 2004	Oct 2005	YTD 2005	YTD 2004	Oct 2005	YTD 2005	YTD 2004	Oct 2005	YTD 2005	YTD 2004	5 Year annual average
Amebiasis											1		0	1	0	0.2
Campylobacteriosis		1	2		14	4	1	2	3	1	25	26	2	42	35	54.6
Creutzfeldt-Jakob Dis													0	0	0	0.4
Cryptosporidiosis		1	1		2				2		4	8	0	7	11	10
E Coli 0157													0	0	0	2.6
E Coli		1	3							1	1	1	1	2	4	1.8
Enceph., WNV					1								0	1	0	2.8
Enceph., Other		1	1									2	0	1	3	3.2
Giardiasis		8	2		11	7				3	21	32	3	40	41	54.6
Haemo. Influz., Bac				1	5	3					2	4	1	7	7	4.6
Hepatitis A											2	1	0	2	1	10
Hepatitis B*		5	6	1	21	14		1	5		16	26	1	43	51	62.5
Hepatitis C*	4	22	15	14	120	113	5	28	15	4	75	98	27	245	241	340**
Kawasaki Syndrome		1				1				1	1	3	1	2	4	3
Legionellosis				2	6	3		1	1	2	8	3	4	15	7	9
Listeriosis				1	1							2	1	1	2	1.4
Lyme Disease											3		0	3	0	2.8
Malaria											1		0	1	0	1
Meningitis, Asep		13	4		3	8			3	5	31	5	5	47	20	52.6
Meningitis Bac.										2	3	2	2	3	2	4.4
Meningococcal Dis.												3	0	0	3	2.8
Pertussis		7			12	2		3	2	2	25	13	2	47	17	7.2
Salmonellosis			2		7	8		3	4	1	22	27	1	32	41	47.4
Shigellosis						2					4		0	4	2	11.6
Strep Inv A GAS		2		1	3	3					5	2	1	10	5	10.2
Strep B Newborn					2	1						2	0	2	3	1.4
Strep Pneu ISP	1	5	4	4	19	12		4	3	1	26	23	6	54	42	25
Strep TSS												2	0	0	2	0.6
Typhoid Fever			1										0	0	1	0.2
Varicella													0	0	0	**
Vibriosis												1	0	0	1	0.2
Yersinosis													0	0	0	0.8

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

Table 2 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including limited historical data.

	Oct 2005			Oct 2004			Oct 2004
	Monthly High	Monthly Low	Monthly Mean	Monthly High	Monthly Low	Monthly Mean	Monthly Mean
Pollen Count	Suspended for season						
Mold Count							
Air Quality Index	111	8	32	54	23	34	26

Pollen and Mold counts are derived from rotorod samples on the 2nd story roof of Canton City Hall. The readings are taken from a 24 hour period/24 hour avg. on all work days. **Out of Season: No readings October- March
 The Air Quality Index (AQI) is derived by comparison to EPA standards from the following readings: Particulate Matter 10, Particulate Matter 2.5 continuous on CCHD 2nd floor roof top; Sulfur Dioxide at Malone College; and ozone monitors in Canton, Brewster, Alliance, and Middlebranch. This index is produced from March to October. AQI ratings are 151-200: unhealthy; 101-150: unhealthy for sensitive groups; 51-100: moderate; 0-50: good.

Table 3 Summary of Select Vital Statistics for Stark County, Ohio

	Alliance City Health District			Canton City Health District			Massillon City Health District			Stark County Health District			Total in Stark County		
	Oct	YTD 2005	2004	Oct	YTD 2005	2004	Oct	YTD 2005	2004	Oct	YTD 2005	2004	Oct	YTD 2005	2004
	Number of Live Births*	27	323	384	244	3217	4081	0	1	4	8	174	223	279	3715
Number of Teenage births*	0	46	65	25	348	379	0	0	0	0	18	39	43	412	483
Number of Deaths*	33	310	326	144	1777	1928	40	345	389	96	1165	1266	313	3597	3909

*These numbers represent occurrences within the jurisdiction and are not indicative of births and deaths of residents of each jurisdiction, therefore jurisdictional rates are not computed.
 The 2002 Birth Rate for Stark County was 0.01266, 0.10262 for 2003 and 0.01243 for 2004. The 2002 Death Rate for Stark County was 0.01091, 0.0111 for 2003 and 0.0104 for 2004 (crude rates are based on US Census 2000 Stark County population of 377,438).

IN THE NEWS:

INFLUENZA:

Nationally: During week 45 (November 6 – November 12, 2005)*, influenza activity occurred at a low level in the United States. Nine (0.7%) specimens tested by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories were positive for influenza. The proportion of patient visits to sentinel providers for influenza-like illness (ILI) and the proportion of deaths attributed to pneumonia and influenza were below baseline levels. Twenty-one states, New York City, the District of Columbia, and Puerto Rico reported sporadic influenza activity, and 29 states reported no influenza activity.

Since October 2, WHO and NREVSS laboratories have tested a total of 10,328 specimens for influenza viruses and 58 (0.6%) were positive. Among the 58 influenza viruses, 49 (84.5%) were influenza A viruses and 9 (15.5%) were influenza B viruses. Twenty-six (53.1%) of the 49 influenza A viruses have been subtyped and all were influenza A (H3N2) viruses. Seventeen states from 7 of the 9 surveillance regions have reported laboratory-confirmed influenza this season.

Locally: No local or state activity reported.

Avain: The World Health Organization remains at pandemic phase 3. See table to the right for pandemic phase level information. At this level it is believed that there has been very limited human-to-human spread of the disease among the 130 confirmed cases. Of those cases there have been reports of 67 deaths. Currently Human cases have been confirmed in Indonesia, Viet Nam, Thailand, Cambodia, and China. In an effort to prevent the unknowing presence of avain and other subtypes of influenza, the Ohio Department of Health Laboratory is once again accepting isolates for sub-typing. For further information regarding laboratory shipment of specimens please contact your local health department.

Inter-pandemic phase	Low risk of human cases	1
New virus in animals, no human cases	Higher risk of human cases	2
Pandemic alert	No or very limited human-to-human transmission	3
New virus causes human cases	Evidence of increased human-to-human transmission	4
	Evidence of significant human-to-human transmission	5
Pandemic	Efficient and sustained human-to-human transmission	6

WHO Pandemic Phase Level Categories

If you have any questions, including how to receive other copies of this report, please contact Matt Tillapaw at (330) 493-9928 x287 or Tillapawm@starkhealth.org or Christina Henning at (330) 489-3454 or Chenning@cantonhealth.org.