

### June – 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](http://www.cdc.gov/epo/dphsi/casedef/index.htm) for case definitions.

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

	Alliance City Health			Canton City Health			Massillon City Health			Stark County Health			Stark County Totals			
	Jun 2005	YTD 2005	YTD 2004	Jun 2005	YTD 2005	YTD 2004	Jun 2005	YTD 2005	YTD 2004	Jun 2005	YTD 2005	YTD 2004	Jun 2005	YTD 2005	YTD 2004	5 Year annual average
Amebiasis													0	0	0	0.2
Campylobacteriosis			1	1	4			1	2	3	12	12	4	17	15	54.6
Creutzfeldt-Jakob Dis											1		0	1	0	0.4
Cryptosporidiosis				1	2							3	1	2	3	10
E Coli 0157													0	0	0	2.6
E Coli		1	2									1	0	1	3	1.8
Enceph., WNV													0	0	0	2.8
Enceph., Other													0	0	0	3.2
Giardiasis			1	2	6	4	1	3	2	1	11	19	4	20	26	54.6
Haemo. Influz., Bac					1	2			1		1	3	0	2	6	4.6
Hepatitis A											2	1	0	2	1	10
Hepatitis B*		5	4		13	11		1	3	4	12	16	4	31	34	62.5
Hepatitis C*	3	17	9	16	73	75	2	16	8	5	50	68	26	156	160	340**
Kawasaki Syndrome		1				1						1	0	1	2	3
Legionellosis					3						3	2	0	6	2	9
Listeriosis													0	0	0	1.4
Lyme Disease						1				1	3		1	3	1	2.8
Malaria											1		0	1	0	1
Meningitis, Asep		1	1		1	3				1	4	5	1	6	9	52.6
Meningitis Bac.											1	1	0	1	1	4.4
Meningococcal Dis.												3	0	0	3	2.8
Pertussis		7		1	6			2		1	16	3	2	29	5	7.2
Salmonellosis			2		4	3	2	3	2	4	13	10	6	20	17	47.4
Shigellosis						1				1	2		1	2	1	11.6
Strep Inv A GAS	1	2		1	1	2					5	2	2	8	4	10.2
Strep B Newborn					1	1							0	1	1	1.4
Strep Pneu ISP		4	4		12	10		4	3		22	18	0	42	35	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, June 2005, including limited historical data.**

	June 2005			June 2004			July 2004
	Monthly High	Monthly Low	Monthly Mean	Monthly High	Monthly Low	Monthly Mean	Monthly Mean
Pollen Count	355	10	153	320	5	54	20
Mold Count	13690	2930	7526	11920	3180	7958	7382
Air Quality Index	119	28	54	89	31	51	54

Pollen and Mold counts are derived from rotorod samples on the 2<sup>nd</sup> story roof of Canton City Hall. The readings are taken from a 24 hour period/24 hour avg. on all work days.

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 2<sup>nd</sup> 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		
	Jun	YTD 2005	2004	Jun	YTD 2005	2004	Jun	YTD 2005	2004	Jun	YTD 2005	2004	Jun	YTD 2005	2004
Number of Live Births*	38	200	384	348	2200	4081	0	0	4	12	82	223	398	2482	4692
Number of Teenage births*	9	34	65	32	212	379	0	0	0	3	12	39	44	258	483
Number of Deaths*	28	200	326	65	1228	1928	37	225	389	107	789	1266	237	2442	3909

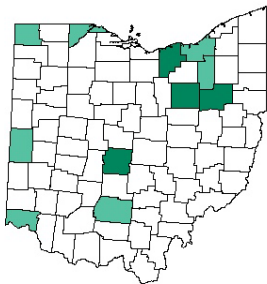
\*These numbers represent occurrences within the jurisdiction and are not indicative of births and deaths of residents of each jurisdiction, therefore jurisdictional rates are not computed.

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:

### West Nile Virus:

The first dead bird in Ohio has been found in Stark County. Other Ohio statistics include one reported Human case of West Nile Virus in Darke County; Darke County is located on the central Indiana state border. Both neighboring Summit County and further south, Ross County have reported Equine cases. Mosquito pools have tested positive in Stark County and in seven other counties within Ohio. A live bird survey in Wayne county found 9 live birds positive with West Nile Virus. These Ohio statistics and map shown here can be viewed at: <http://www.odh.ohio.gov/casemaps/wnv/wnv05/index.html>



Map of WNV activity in Ohio

As a comparison, in Ohio the first Human case of West Nile Virus was reported during week 24 of 2005, week 27 of 2004 and week 26 of 2003. Further, dead bird samples were found in week 22 of 2005, week 19 of 2004, and week 24 of 2003. This shows a slight shift in earlier identification of West Nile Virus in Humans and a balancing of when it is being identified in birds.

Nationally, Human cases of West Nile Virus have been found in SD, CO, TX, AZ, NM, CA, OH, IN, MO, & KS. These states represent a wide swath of the United States from the Great Lakes to the South Western Corner of California. A similar pattern of West Nile Virus across the United States is also evident in the Mosquito and Bird population. Excellent West Nile Maps can be found at: [http://westnilemaps.usgs.gov/us\\_human.html](http://westnilemaps.usgs.gov/us_human.html)

**West Nile Virus Trends:** West Nile Virus continues to increase its reach throughout the United States. Areas previously not identified as having West Nile Virus are finding it in a variety of populations. With the drought like conditions in our region, the culex mosquito population has boomed, this is the mosquito that is considered the primary carrier of West Nile Virus. Mosquito trap counts of this species have increased significantly from last year, this increase could signify an impending increase in human cases in Stark County if residents do not take necessary precautions. Recommendations for precautions have not changed, and include such things as using a mosquito repellent containing the active ingredient DEET or picaridin, seeking medical attention as soon as symptoms appear, and household mosquito-source reduction such as removing any item that could retain water.

**West Nile Virus Reporting:** In Ohio a clinically compatible illness diagnosed as primary viral encephalitis by a physician is reportable. Although laboratory studies are important in clinical diagnosis they are not required for reporting purposes. Primary viral, post-infectious and arboviral encephalitis are class A (2) and must be reported to the appropriate Health Department by the end of the next business day.

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](mailto:Tillapawm@starkhealth.org) or Christina Henning at (330) 489-3454 or [Henningc@cantonhealth.org](mailto:Henningc@cantonhealth.org).