

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: Teen Births, Current Trends: The first quarter of 2008 as compared with the first quarter of 2007 revealed a 16.98% increase in the rate of teen pregnancies; from 101 teen births per 1000 live births from Jan to March 2007 to 123.7 teen births per 1000 live births in the same period in 2008. When looking at specific ages as opposed to age groups, the rate of births in 16 year olds is the most alarming with a rate increase of 121.6%, from 8.1 per 1000 live births the first quarter of 2007 to 17.9 during the same time in 2008.

This increase in teen births coincides with an increase in raw counts of STDs 9 months prior to the birth month. This short term trend is apparent in the graph to the right. In the graph the percentage of teen births is matched with the number of STD's that occurred nine months earlier.

Although looking at this minor period with relatively small numbers will not provide statistically significant results, the current trends are worth monitoring. Further, trends in STD's may be indicative of later trends in births, as well as latent STD's and related manifestations of unprotected sexual activities.

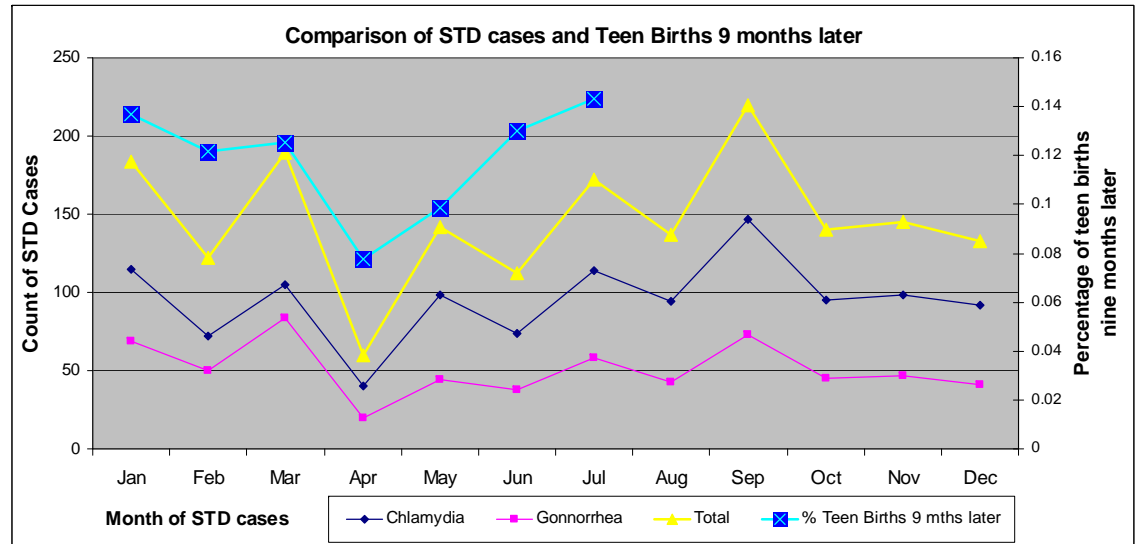


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including limited historical data.

	March 2008				April 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					335	5	57.8	
Mold Count					5660	650	2268	All Good
Air Quality Index	47	7	26.2	All Good	66	23	36.9	1 Moderate

Pollen and Mold counts are derived from rotorod samples on the 2nd story roof of Canton City Hall. 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 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. 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

	Mar 2008	YTD 2008	2007
Live Births	286	1059	5057
Births to Teens	42	131	537
Deaths	407	1206	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 March 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			
	Mar 2008	YTD 2008	YTD 2007	Mar 2008	YTD 2008	YTD 2007	Mar 2008	YTD 2008	YTD 2007	Mar 2008	YTD 2008	YTD 2007	Mar 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	0	0	0	0	0	1	1	1	1	4	6	2	5	7	51.8
Chlamydia	4	18	22	56	150	168	8	21	10	23	76	85	91	265	285	1126.4
Creutzfeldt-Jakob Ds	0	0	0	0	1	0	0	0	0	1	3	0	1	4	0	0.6
Cryptosporidiosis	0	0	0	0	1	0	0	0	1	0	2	1	0	3	2	14
E Coli 0157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.4
E Coli	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Enceph., WNV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6
Enceph., Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8
Giardiasis	0	0	3	0	3	1	0	0	0	2	6	5	2	9	9	49.2
Gonorrhea	1	7	7	25	102	140	1	8	15	6	20	41	33	137	203	646
Haemo. Influz., Bac	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	5.8
Hepatitis A	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	8
Hepatitis B*	0	0	0	2	4	2	0	3	1	1	5	1	3	12	4	44.6
Hepatitis C*#	2	8	4	4	16	24	3	6	1	5	24	23	14	54	52	273.5
Kawasaki Syndrome	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.6
Legionellosis	0	0	0	0	1	0	0	0	0	1	1	0	1	2	0	12.2
Listeriosis	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2.4
Lyme Disease	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	2.6
Malaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8
Meningitis, Asep	0	0	0	0	2	3	0	0	0	0	1	3	0	3	6	53.8
Meningitis Bac.	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	4.4
Meningococcal Dis.	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2.4
Mumps	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0.4
Pertussis	0	0	0	0	0	2	0	0	0	0	0	3	0	0	5	17
Salmonellosis	0	0	2	0	0	2	0	0	0	2	5	4	2	5	8	49.4
Shigellosis	0	0	0	1	7	0	0	0	0	1	2	0	2	9	0	11.8
Strep Inv A GAS	0	0	0	0	0	3	0	0	0	0	6	1	0	6	4	12.2
Strep B Newborn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Strep Pneu ISP	0	1	0	2	4	8	1	2	1	2	15	12	5	22	21	47.8
Strep TSS	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0.4
Syphilis	0	0	0	2	8	0	0	0	0	0	1	3	2	9	3	21.6
Typhoid Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Varicella#	1	2	5	1	4	11	0	0	4	2	14	74	4	20	94	#
Vibriosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Yersiniosis	0	0	0	0	1	0	0	0	0	0	2	3	0	3	3	2

*This includes all hepatitis reports; acute, chronic, and status not known. # 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.