

EPI Gram is a bimonthly publication of the Stark County Public Health Infrastructure 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.

Monthly Highlight: Pertussis (“Whooping Cough”)

During the month of July, Stark County received 13 new pertussis cases bringing the total 2014 year to date to 45 cases thus far. This surpasses the total number of cases of 16 in 2013 as well as the five year (2009-2013) annual average of cases of 39.

This year’s cases of pertussis have an age range from 1 month to 52 years old. The average age being around 10.5 years old and the median age for a case being 7 years old. Around 58% of this year’s cases in Stark County were confirmed to have had some vaccine, but around 13% were reported to have no vaccine at all.

The best form of prevention is vaccination when it comes to pertussis. Children should receive five doses by the age of six. A booster shot is then recommended by ages eleven or twelve and adults are recommended to receive one after any exposure and during every pregnancy.

- The graph to the right shows the number of Pertussis cases from 1922 to 2013. It shows the drop in cases following the introduction to the vaccine in the 1940’s. By 1965 cases had decreased from 100,000 cases of Pertussis a year to 10,000 cases a year. Unfortunately, since the 1980’s, the number of cases have begun to incline and in 2013 more than 24,000 cases were reported across the nation.

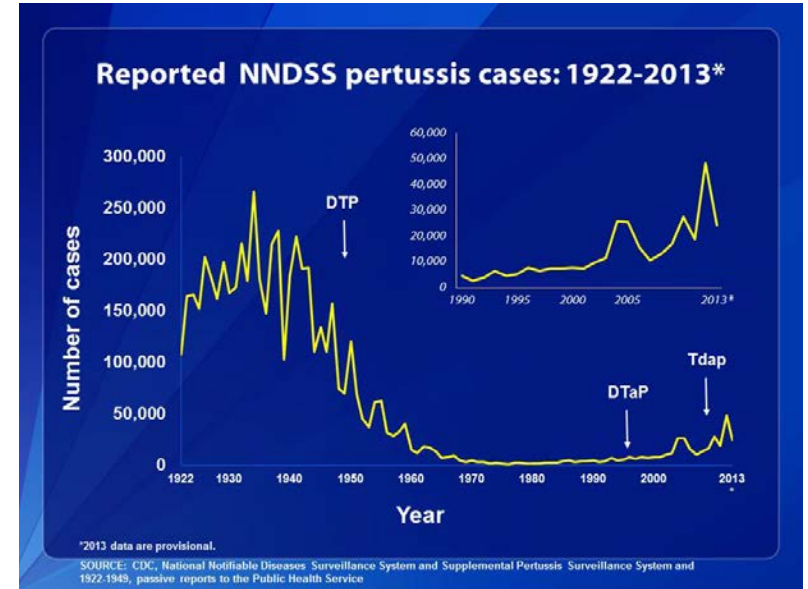


Table 1 Summary of Air Quality Index, Pollen, and Mold Counts for Stark County, Ohio, including historical data.

	July 2014				Aug 2013			
	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category	Monthly High	Monthly Low	Monthly Median	Counts in highest reported health risk category
Pollen Count	60	5	15	N/A	165	5	35	N/A
Mold Count	9,340	2,080	5,320	10 Moderate	7,890	1,610	3,360	3 Moderate
Air Quality Index	68	30	39.5	4 Moderate	66	30	43	5 Moderate

**See the following websites for updated Air Quality Index and mold index terminology and color-coding <http://www.airnow.gov/index.cfm?action=aqibasics.aqi> https://pollen.aaaai.org/nab/index.cfm?p=reading_charts
Data source for this table is the Air Quality Division of the Canton City Health Department.

Table 2 Summaries of Select Vital Statistics for Stark County

	July 2014	YTD 2014	2013
Live Births	390	2,419	4,211
Births to Teens	18	189	370
Deaths	336	2,590	4,229

Birth and Death Data is reported by the 4 health districts and may include non county residents.

Table 3 Stark County Crude Birth Rate and Death Rates

	2008	2009	2010	2011	2012
Birth	11.8	11.4	10.8	10.8	10.9
Death	11.4	10.9	10.9	11.3	11.4

*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population.

If you have any questions, including how to receive copies of this report, please contact Julia Wagner at 330.493.9914 or Wagnerj@starkhealth.org.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH

	Alliance City		Canton City		Massillon City		Stark County		Total	
	July	YTD	July	YTD	July	YTD	July	YTD	July	YTD
Campylobacteriosis	0	1	2	10	0	0	6	29	8	40
Chlamydia infection	11	51	48	384	14	91	41	347	112	873
Cryptosporidiosis	0	2	1	3	0	3	2	13	3	21
E. coli-Not O157:H7	0	0	0	0	0	0	0	1	0	1
Giardiasis	0	0	0	1	0	0	3	5	3	6
Gonococcal infection	0	17	24	210	0	21	8	86	32	334
Haemophilus Influenzae	0	0	0	3	0	0	0	1	0	4
Hepatitis A	0	1	0	0	0	1	2	3	2	5
Hepatitis B - Acute	0	1	0	1	0	0	0	0	0	2
Hepatitis B - chronic	1	2	1	4	1	5	3	22	6	33
Hepatitis C - Acute	1	1	0	1	0	0	0	0	1	2
Hepatitis C - chronic	1	7	8	68	1	18	10	80	20	173
Influenza-associated hospitalization	0	10	0	48	0	15	0	64	0	137
Legionellosis	0	0	0	0	0	0	0	2	0	2
Lyme Disease	0	0	1	2	0	0	0	3	1	5
Measles-indigenous to Ohio	0	1	0	0	0	0	0	7	0	8
Meningitis - aseptic/viral	0	0	1	4	0	0	3	8	4	12
Meningitis - bacterial (Not N. meningitidis)	0	0	0	1	0	0	0	1	0	2
Meningococcal disease	0	0	0	1	0	0	0	0	0	1
Mumps	0	0	0	0	0	0	1	4	1	4
Mycobacterial disease - other than tuberculosis	0	0	0	6	0	1	3	14	3	21
Pertussis	0	1	0	7	0	9	13	28	13	45
Salmonellosis	0	0	1	4	0	0	4	18	5	22
Shigellosis	1	5	10	33	0	1	8	24	19	63
Streptococcal - Group A - invasive	0	0	0	1	0	0	0	6	0	7
Streptococcal toxic shock syndrome (STSS)	0	0	0	1	0	0	0	1	0	2
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	4	1	7	0	1	0	6	1	18
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	1	0	0	1	3	1	4
Syphilis, Total	0	2	0	0	0	2	0	0	0	4
Syphilis, Primary and Secondary	0	2	0	0	0	2	0	0	0	4
Tuberculosis	0	0	0	0	0	0	0	1	0	1
Varicella	0	0	0	3	0	0	3	12	3	15
Vibriosis-Other (not cholera)	0	0	0	0	0	0	0	1	0	1
Yersiniosis	1	1	0	0	0	0	0	0	1	1

Source: Ohio Disease Reporting System, downloaded 8/12/2014.

Table 5–Summary Table of Diseases Reported in the Previous 5 years within Stark County

(Provisional Data)	July 2014	July 2013	YTD 2014	YTD 2013	All of 2013	5 Yr Annual Average	5 Yr Annual Rate
Brucellosis	0	0	0	0	0	0.2	0.053
Campylobacteriosis	8	9	40	39	67	55.4	14.75
Chlamydia	112	124	873	903	1445	1391	370.46
Coccidioidomycosis	0	0	0	0	0	0.2	0.053
Creutzfeldt-Jakob Disease	0	0	0	1	1	1.2	0.32
Cryptosporidiosis	3	1	21	13	26	25.8	6.87
Cyclosporiasis	0	0	0	0	1	0.2	0.053
Dengue	0	0	0	0	0	0.8	0.213
Escherichia coli , STP, Not O157:H7	0	0	1	2	2	1.8	0.479
Escherichia coli O157:H7	0	0	0	0	0	2.4	0.639
Escherichia coli , STP, Unk Serotype	0	0	0	0	0	0.6	0.16
Ehrlichiosis/Anaplasmosis	0	1	0	1	1	0.4	0.107
Giardiasis	3	1	6	29	37	52.6	14.01
Gonorrhea	32	51	334	367	612	543.2	144.63
Haemophilus influenzae , Invasive	0	0	4	5	7	8	2.13
Hepatitis A	2	0	5	2	8	3.4	0.91
Hepatitis B-Perinatal	1	0	1	0	6	2.4	0.639
Hepatitis B, Acute	0	2	2	7	8	4.4	1.172
Hepatitis B, Chronic	6	1	33	13	22	32.4	8.627
Hepatitis C, Acute	1	2	2	6	7	5.6	1.491
Hepatitis C, Chronic	20	9	173	116	202	231	61.5
Hepatitis E	0	0	0	0	0	0.2	0.053
Influenza-associated hospitalization	0	0	137	290	332	165.2	43.99
Influenza-associated pediatric mortality	0	0	0	1	1	0.2	0.053
LaCrosse virus disease	0	0	0	0	0	0.8	0.213
Legionellosis	0	5	2	15	21	16.6	4.42
Listeriosis	0	0	0	1	2	2	0.533
Lyme Disease	1	2	5	9	15	9.8	2.609
Malaria	0	1	0	1	1	1.4	0.373
Measles (Indigenous to Ohio)	0	0	8	0	0	0	0
Meningitis, Aseptic	4	2	12	9	24	35.4	9.425
Meningitis, Other Bacterial	0	0	2	3	5	3.8	1.012
Meningococcal Disease	0	0	1	0	0	0.8	0.213
Mumps	1	0	4	0	0	0.6	0.16
Mycobacterial disease - Not TB	3	5	21	20	34	27.6	7.349
Pertussis	13	1	45	9	16	39	10.384
Q fever, acute	0	0	0	2	2	0.4	0.107
Salmonellosis	5	6	22	31	46	38	10.12
Shigellosis	19	1	63	16	87	25.6	6.816
Spotted Fever Rickettsiosis	0	0	0	0	0	0.6	0.16
Streptococcal Dis, Group A, Invasive	0	0	7	10	14	15.2	4.047
Streptococcal Dis, Group B, in Newborn	0	0	0	2	2	3.2	0.852
Streptococcal Toxic Shock Syndrome	0	0	2	0	0	0.6	0.16
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	2	18	22	33	36.6	9.745
Streptococcus pneumo - inv antibiotic resistant/intermediate	1	1	4	19	27	20.2	5.378
Syphilis, Total	0	1	4	10	14	11.6	3.089
Syphilis, Primary and Secondary	0	0	4	3	8	3.4*	0.91*
Toxic Shock Syndrome (TSS)	0	0	0	3	3	0.8*	0.213*
Tuberculosis	0	0	1	0	0	2.4	0.639
Typhus Fever	0	0	0	0	1	0.2	0.053
Varicella	3	1	15	13	23	42.4	11.29
Vibriosis - other (not cholera)	0	0	1	1	1	0.4	0.107
Vibriosis parahaemolyticus	0	0	0	1	1	0.2	0.053
West Nile Virus	0	0	0	0	0	0.2	0.053
Yersiniosis	1	0	1	1	1	0.6	0.16

Source: Ohio Disease Reporting System, downloaded 8/12/2014. Rates are per 100K population and based on 5 yr average incidence 09-13.*08-12 from ODH Stats pg.