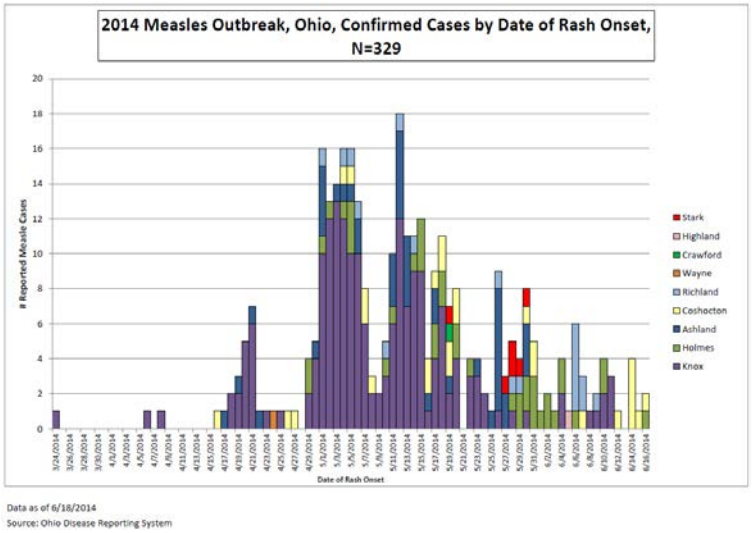
EPI GRAM May, 2014

A Monthly Publication of the Stark Public Health Infrastructure Coalition

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: Stark County Measles

In May, the first confirmed case of Measles in Stark County linked to the Ohio outbreak, became symptomatic. Self isolation and quarantine by the case and contacts, rapid reporting by the physician and a speedy investigation by the local health department likely limited the spread of disease. The investigation identified a cluster of 6 confirmed unvaccinated cases with either exposure to an area with known disease transmission or close contact to a case. See epidemiology curve to the right which displays Stark County cases in red among other cases tied to the 2014 Ohio Measles Outbreak as of 06/19/2014. Based on the epi curve, the outbreak appears to be slowing in Ohio. However, with numerous large summer gatherings, auctions, family events and seasonal travel additional cases may be expected.



The public is strongly encouraged to check their vaccination status and if unsure of full protection, they should contact their primary care physician or local health department for guidance. "Contracting measles is especially serious for infants younger than one year of age," said ODH State Epidemiologist Dr. Mary DiOrio. "Parents with infants too young to be vaccinated should consider not traveling with them to areas where measles outbreaks are occurring."

Physicians are required to report suspect cases of Measles, a highly contagious respiratory disease caused by the measles virus, immediately to their local health department. Nearly every case that has been reported has been unvaccinated and presented with a maculopapular rash that started on or near the hair line and then descended to the trunk and extremities, as well as cough and fever (average highest temperature >101.5°F). Additional symptoms among Ohio cases included conjunctivitis, coryza and diarrhea. Furthermore, cases typically had a history that placed them either in the proximity of a Measles Outbreak County or to a symptomatic case.

Additional information on Measles can be found at: http://www.odh.ohio.gov/features/odhfeatures/Measles%202014.aspx and http://www.cdc.gov/measles/.

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

	May 2014				June 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	730	35	215	N/A	135	5	35	N/A
Mold Count	9970	710	3860	**4 Moderate**	660	3680	1290	**1 Moderate**
Air Quality Index	57	23	43	**2 Moderate**	91	46	33	**7 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

	May 2014	YTD 2014	2013
Live Births	429	1,607	4,211
Births to Teens	35	142	370
Deaths	367	1,849	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 330.493.9904 or Wagnerj@starkhealth.org.

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

	Alliance City		Canton City		Massillon City		Stark County		All of Stark County	
	May	YTD	May	YTD	May	YTD	May	YTD	May	YTD
Campylobacteriosis	0	1	1	5	0	0	6	14	7	20
Chlamydia infection	6	30	43	279	12	66	35	254	96	629
Cryptosporidiosis	0	1	0	2	0	1	0	9	0	13
E. coli-Not O157:H7	0	0	0	0	0	0	1	1	1	1
Giardiasis	0	0	0	1	0	0	0	1	0	2
Gonococcal infection	3	16	31	156	4	19	12	66	50	257
Haemophilus Influenzae	0	0	1	1	0	0	0	1	1	2
Hepatitis A	0	1	0	0	0	0	1	1	1	2
Hepatitis B - Acute	0	1	0	1	0	0	0	0	0	2
Hepatitis B - chronic	1	1	0	3	0	3	2	17	3	24
Hepatitis C - Acute	0	0	0	1	0	0	0	0	0	1
Hepatitis C - chronic	1	3	8	50	4	13	15	50	28	116
Influenza-associated hospitalization	0	10	0	48	0	15	2	64	2	137
Legionellosis	0	0	0	0	0	0	1	1	1	1
Lyme Disease	0	0	0	1	0	0	0	1	0	2
Measles-indigenous to Ohio	0	0	0	0	0	0	1	1	1	1
Meningitis - aseptic/viral	0	0	0	3	0	0	1	5	1	8
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	0	1	0	1
Meningococcal disease	0	0	0	1	0	0	0	0	0	1
Mumps	0	0	0	0	0	0	0	1	0	1
Mycobacterial disease - other than tuberculosis	0	0	2	5	1	1	1	7	4	13
Pertussis	1	1	0	3	0	8	3	9	4	21
Salmonellosis	0	0	0	1	0	0	3	10	3	11
Shigellosis	0	3	3	20	1	1	3	15	7	39
Streptococcal - Group A - invasive	0	0	1	1	0	0	2	5	3	6
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	0	7	1	1	1	5	2	17
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	0	0	1	0	1
Syphilis, Total	0	0	0	0	2	2	0	0	2	2
Syphilis, Primary and Secondary	0	0	0	0	2	2	0	0	2	2
Varicella	0	0	0	1	0	0	1	9	1	10
Vibriosis-Other (not cholera)	0	0	0	0	0	0	1	1	1	1

Source: Ohio Disease Reporting System, downloaded 6/22/2014.

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

(Provisional Data)	May 2014	May 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	7	3	20	16	67	55.4	14.75
Chlamydia	96	157	629	626	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	0	3	13	12	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	1	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	0	0	0	1	0.4	0.107
Giardiasis	0	3	2	23	37	52.6	14.01
Gonorrhea	50	56	257	244	612	543.2	144.63
Haemophilus influenzae , Invasive	1	0	2	5	7	8	2.13
Hepatitis A	1	0	2	2	8	3.4	0.91
Hepatitis B-Perinatal	0	1	0	2	6	2.4	0.639
Hepatitis B, Acute	0	2	2	4	8	4.4	1.172
Hepatitis B, Chronic	3	2	24	8	22	32.4	8.627
Hepatitis C, Acute	0	0	1	4	7	5.6	1.491
Hepatitis C, Chronic	28	20	116	94	202	231	61.5
Hepatitis E	0	0	0	0	0	0.2	0.053
Influenza-associated hospitalization	2	3	137	289	332	165.2	43.99
Influenza-associated pediatric mortality	0	1	0	0	1	0.2	0.053
LaCrosse virus disease	0	0	0	0	0	0.8	0.213
Legionellosis	1	0	1	6	21	16.6	4.42
Listeriosis	0	0	0	1	2	2	0.533
Lyme Disease	0	1	2	3	15	9.8	2.609
Malaria	0	0	0	0	1	1.4	0.373
Measles (Indigenous to Ohio)	1	0	1	0	0	0	0
Meningitis, Aseptic	1	1	8	3	24	35.4	9.425
Meningitis, Other Bacterial	0	2	1	3	5	3.8	1.012
Meningococcal Disease	0	0	1	0	0	0.8	0.213
Mumps	0	0	1	0	0	0.6	0.16
Mycobacterial disease - Not TB	4	3	13	13	34	27.6	7.349
Pertussis	4	1	21	6	16	39	10.384
Q fever, acute	0	0	0	1	2	0.4	0.107
Salmonellosis	3	2	11	14	46	38	10.12
Shigellosis	7	1	39	13	87	25.6	6.816
Spotted Fever Rickettsiosis	0	0	0	0	0	0.6	0.16
Streptococcal Dis, Group A, Invasive	3	0	6	10	14	15.2	4.047
Streptococcal Dis, Group B, in Newborn	0	0	0	1	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	2	3	17	20	33	36.6	9.745
Streptococcus pneumo - inv antibiotic resistant/intermediate	0	1	1	18	27	20.2	5.378
Syphilis, Total	2	5	2	8	14	11.6	3.089
Syphilis, Primary and Secondary	2	4	2	5	8	3.4*	0.91*
Toxic Shock Syndrome (TSS)	0	1	0	3	3	0.8*	0.213*
Tuberculosis	0	0	0	0	0	2.4	0.639
Typhus Fever	0	0	0	0	1	0.2	0.053
Varicella	1	0	10	10	23	42.4	11.29
Vibriosis - other (not cholera)	1	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	0	0	0	1	1	0.6	0.16

Source: Ohio Disease Reporting System, downloaded 6/22/2014. Rates are per 100K population and based on 5 yr average incidence 09-13.*08-12 from ODH Stats pg.