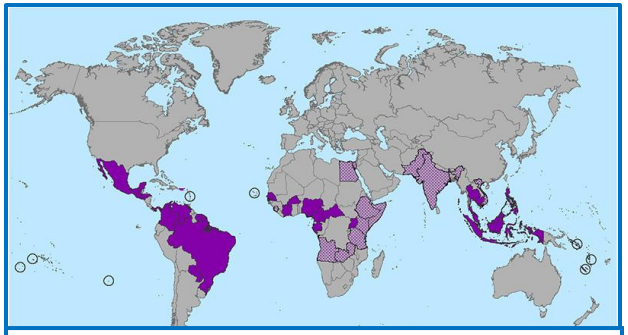
EPI GRAM December, 2015

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: Zika Virus Disease

During the month of December Puerto Rico confirmed their first case of Zika Virus Disease. This disease is transmitted primarily through mosquito bites, specifically bites from the *Aedes* species. Local transmission has not been reported elsewhere in the United States, but has been reported from travelers upon their return home. These imported cases increase the risk of the Zika virus spreading throughout the United States. Any confirmed cases should take extra measures to avoid getting a mosquito bites during the first week of their illness in order to prevent the spread to other mosquitoes and subsequently to other people.



Countries with past or current evidence of Zika virus transmission according to the Centers for Disease Control and Prevention.

About 20% of those who become infected experience symptoms such as a fever, rash, joint pain, and red eyes. Severe manifestations are very rare and death from the Zika virus has not been reported. Unfortunately there is no vaccine nor cure. The only thing a person can do once ill is to treat the symptoms, get lost of rest and stay hydrated. With no cure and the high risk of spread through mosquitoes the best form of action is prevention. The following are ways to prevent contracting the Zika virus if one is traveling to an area where there are confirmed cases:

- Use insect repellents: products with DEET, picaridin, IR3535, and some oil of lemon eucalyptus and para-menthane-diol have long lasting protection.
  - Apply on the outer layer of clothing.
  - If applying on sunscreen and insect repellent, apply the sunscreen first and the insect repellent last.
  - Follow the instructions on the product container
- Wear long sleeve shirts and long pants when possible
- Use air conditioning or window/door screens to keep mosquitoes outside of the house
- Empty standing water from containers around your home. This is where mosquitoes lay their eggs.

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

	December 2015				January 2015			
	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	Reported Seasonally; Currently Unavailable				Reported Seasonally; Currently Unavailable			
Mold Count								
Air Quality Index	60	5	11.5	1 (All Good)	32	17	20	0 (All Good)

**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

	December 2015	YTD 2015	2014
Live Births	395	4,314	4,512
Births to Teens	26	308	380
Deaths	378	4,362	4,288

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

Table 3 Stark County Crude Birth Rate and Death Rates

	2009	2010	2011	2012	2013
Birth	11.4	10.8	10.8	10.9	11.2
Death	10.9	10.9	11.3	11.4	11.3

*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	Alliance City		Canton City		Massillon City		Stark County		Total	
	Dec.	**YTD**	**Dec.**	**YTD**	**Dec.**	**YTD**	**Dec.**	**YTD**	**Dec.**	**YTD**
Amebiasis	0	0	0	0	0	0	0	1	0	1
Babesiosis	0	0	0	0	0	0	0	1	0	1
Campylobacteriosis	0	5	1	16	0	1	1	35	2	57
Chlamydia infection	10	83	71	778	8	166	63	619	152	1,646
Cholera	0	0	0	0	0	0	0	0	0	0
Coccidioidomycosis	0	0	0	0	0	0	0	0	0	0
Cryptosporidiosis	2	5	0	1	0	5	1	19	3	30
Cyclosporiasis	0	0	0	0	0	0	0	1	0	1
E. coli-O157:H7 and Shiga toxin producing	0	0	0	4	0	1	0	12	0	17
Giardiasis	1	3	33	9	0	1	0	15	1	28
Gonococcal infection	4	35	0	342	2	41	10	90	49	508
Haemophilus Influenzae	0	2	0	3	0	0	1	3	1	8
Hemolytic Uremic Syndrome	0	0	0	0	0	0	0	0	0	0
Hepatitis A	0	1	0	2	0	0	0	2	0	5
Hepatitis B - acute	0	1	0	2	0	0	0	0	0	3
Hepatitis B - chronic	0	3	0	11	0	2	3	27	3	43
Hepatitis B - perinatal	0	0	0	2	0	0	0	3	0	5
Hepatitis C - acute	0	3	0	2	0	3	0	5	0	13
Hepatitis C - chronic	3	41	5	123	4	55	10	154	22	373
Influenza-associated hospitalization	0	7	0	75	0	25	0	177	0	284
Legionellosis	0	0	0	4	0	3	1	13	1	20
Listeriosis	0	0	0	0	0	0	1	1	1	1
Lyme Disease	0	2	0	2	0	2	1	12	1	18
Malaria	0	0	0	0	0	0	0	0	0	0
Measles-indigenous to Ohio	0	0	0	0	0	0	0	0	0	0
Meningitis - aseptic/viral	0	0	0	8	0	3	2	19	2	30
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	1	0	2	0	3
Meningococcal disease	0	0	0	1	0	1	0	1	0	3
Mumps	0	1	0	1	0	0	0	2	0	4
Mycobacterial disease - other than tuberculosis	0	1	0	2	0	3	1	17	1	23
Pertussis	0	6	0	8	4	7	3	24	7	45
Salmonellosis	0	2	2	12	0	4	4	32	6	50
Shigellosis	0	0	0	5	0	0	0	1	0	6
Streptococcal - Group A -invasive	0	0	0	2	0	2	0	5	0	9
Streptococcal - Group B -newborn	0	0	0	0	0	0	0	0	0	0
Streptococcal toxic shock syndrome (STSS)	0	0	0	1	0	0	0	0	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown/non-resistant	0	3	1	8	0	1	4	16	5	28
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	3	0	3	0	1	0	8	0	15
Syphilis, Total	0	0	0	1	0	2	0	4	0	7
Syphilis, Primary and Secondary	0	0	0	1	0	2	0	2	0	5
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0	0	1	0	1
Tuberculosis	0	0	0	1	0	0	0	0	0	1
Typhoid Fever	0	0	0	0	0	0	0	0	0	0
Varicella	0	0	0	2	0	2	1	22	1	26
Vibriosis-Other (not cholera)	0	0	0	0	0	0	0	3	0	3
West Nile	0	0	0	0	0	0	0	1	0	1
Yersiniosis	0	0	0	0	0	0	0	8	0	8
Total	20	207	113	1,430	18	330	107	1,352	158	3,319

Source: Ohio Disease Reporting System, downloaded 1/13/2016.

Table 5–Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	Dec. 2015	Dec. 2014	YTD 2015	YTD 2014	All of 2014	5 Yr. Annual Average	5 Yr. Annual Rate
Amebiasis	**0**	**0**	**1**	**0**	**0**	**0.0**	**0.000**
Babesiosis	**0**	**0**	**1**	**0**	**0**	**0.0**	**0.000**
Brucellosis	**0**	**0**	**0**	**0**	**0**	**0.2**	**0.053**
Campylobacteriosis	**2**	**3**	**57**	**74**	**74**	**59.2**	**15.762**
Chlamydia	**152**	**131**	**1,646**	**1,531**	**1,531**	**1,459.0**	**388.619**
Cholera	**0**	**0**	**0**	**0**	**0**	**0.0**	**0.000**
Coccidioidomycosis	**0**	**0**	**0**	**1**	**1**	**0.4**	**0.107**
Creutzfeldt-Jakob Disease	**0**	**0**	**0**	**0**	**0**	**0.6**	**0.160**
Cryptosporidiosis	**3**	**0**	**30**	**29**	**29**	**27.8**	**7.402**
Cyclosporiasis	**0**	**0**	**1**	**0**	**0**	**0.2**	**0.053**
Dengue	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.213**
Escherichia coli, Shiga Toxin-Producing	**0**	**0**	**17**	**8**	**8**	**4.8**	**1.279**
Ehrlichiosis/ Anaplasmosis	**0**	**0**	**0**	**0**	**0**	**0.4**	**0.107**
Giardiasis	**1**	**0**	**28**	**15**	**15**	**44.2**	**11.773**
Gonorrhea	**49**	**40**	**508**	**527**	**527**	**561.6**	**149.588**
Haemophilus influenzae , Invasive	**1**	**0**	**8**	**6**	**6**	**7.4**	**1.971**
Hemolytic Uremic Syndrome (HUS)	**0**	**0**	**0**	**1**	**1**	**0.2**	**0.053**
Hepatitis A	**0**	**2**	**5**	**9**	**9**	**4.8**	**1.278**
Hepatitis B, Acute	**0**	**0**	**3**	**6**	**6**	**5.0**	**1.331**
Hepatitis B, Chronic	**3**	**4**	**43**	**41**	**41**	**32.6**	**8.683**
Hepatitis B, Perinatal	**0**	**0**	**5**	**1**	**1**	**0.8**	**0.21**
Hepatitis C, Acute	**0**	**0**	**13**	**4**	**4**	**4.8**	**1.279**
Hepatitis C, Chronic	**22**	**22**	**373**	**263**	**263**	**244.0**	**64.992**
Hepatitis E	**0**	**0**	**0**	**0**	**0**	**0.2**	**0.053**
Influenza-associated hospitalization	**0**	**261**	**284**	**409**	**409**	**207.8**	**55.350**
Influenza-associated pediatric mortality	**0**	**0**	**0**	**0**	**0**	**0.2**	**0.053**
LaCrosse virus disease	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.213**
Legionellosis	**1**	**1**	**20**	**6**	**6**	**13.6**	**3.622**
Listeriosis	**1**	**1**	**1**	**1**	**1**	**1.4**	**0.373**
Lyme Disease	**1**	**0**	**18**	**9**	**9**	**10.8**	**2.876**
Malaria	**0**	**0**	**0**	**1**	**1**	**1.0**	**0.266**
Measles (indigenous to Ohio)	**0**	**0**	**0**	**9**	**9**	**1.8**	**0.479**
Meningitis, Aseptic/Viral	**2**	**3**	**30**	**24**	**24**	**35.6**	**9.482**
Meningitis, Other Bacterial	**0**	**0**	**3**	**2**	**2**	**3.2**	**0.852**
Meningococcal Disease	**0**	**1**	**3**	**2**	**2**	**1.0**	**0.266**
Mumps	**0**	**1**	**4**	**5**	**5**	**1.4**	**0.373**
Mycobacterial disease - Not TB	**1**	**2**	**23**	**34**	**34**	**29.6**	**7.884**
Other arthropod-borne disease	**0**	**0**	**0**	**1**	**1**	**0.2**	**0.053**
Pertussis	**7**	**2**	**45**	**81**	**81**	**45.6**	**12.146**
Q fever, acute	**0**	**0**	**0**	**0**	**0**	**0.4**	**0.107**
Salmonellosis	**6**	**4**	**50**	**38**	**38**	**37.8**	**10.068**
Shigellosis	**0**	**0**	**6**	**69**	**69**	**33.8**	**9.003**
Spotted Fever Rickettsiosis	**0**	**0**	**0**	**0**	**0**	**0.6**	**0.160**
Streptococcal Dis, Group A, Invasive	**0**	**1**	**9**	**10**	**10**	**15.8**	**4.208**
Streptococcal Dis, Group B, in Newborn	**0**	**0**	**0**	**1**	**1**	**2.4**	**0.639**
Streptococcal Toxic Shock Syndrome	**0**	**0**	**1**	**2**	**2**	**1.0**	**0.266**
Strep. pneumo. - invasive antibiotic resistance unknown / non-resistant	**5**	**3**	**28**	**27**	**27**	**35.6**	**9.482**
Strep. pneumo. - invasive antibiotic resistant /intermediate	**0**	**2**	**15**	**9**	**9**	**18.8**	**5.008**
Syphilis, Total	**0**	**0**	**7**	**7**	**7**	**10.4***	**2.770***
Syphilis, Primary and Secondary	**0**	**0**	**5**	**7**	**7**	**3.0***	**0.799***
Toxic Shock Syndrome (TSS)	**0**	**0**	**1**	**0**	**0**	**0.8**	**0.213**
Tuberculosis	**0**	**0**	**1**	**1**	**1**	**2.0**	**0.533**
Typhoid Fever	**0**	**0**	**0**	**1**	**1**	**0.4**	**0.107**
Typhus Fever	**0**	**0**	**0**	**0**	**0**	**0.2**	**0.053**
Varicella	**1**	**3**	**26**	**24**	**24**	**35.0**	**9.323**
Vibriosis	**0**	**0**	**3**	**1**	**1**	**0.6**	**0.160**
West Nile Virus	**0**	**0**	**1**	**1**	**1**	**0.0**	**0.000**
Yersiniosis	**0**	**0**	**8**	**3**	**3**	**0.6**	**0.160**

Source: OH Disease Reporting System, downloaded 1/13/2016. Rates are per 100K population and based on 5 yr. average incidence 10-14.* 10-14 from ODH Stats pg.