

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: Yersiniosis

So far this year Stark County has had six residents diagnosed with Yersiniosis. This is twice as many cases as were diagnosed for the entire 2014 year. Overall, Ohio experiences less than 60 cases a year and the whole United States experiences 100,000 cases each year. This illness can cause bloody diarrhea lasting up to three weeks, though healthy individuals can fight this bacteria off much sooner.

Only a few strains of *Yersinia enterocolitica* can cause human illness. The main reservoir for these strains are found in pigs. In 2013 the Consumer Reports Magazine released a study showing that of the 240 samples of pork products, including pork chops and ground pork from across the United States, 69% of those samples tested positive for the *Yersinia enterocolitica* bacteria.



Consumer Reports Magazine, January 2013

The following recommendations are provided by the Centers for Disease Control to help you prevent infection:

- Avoid eating raw or undercooked pork.
- Consume only pasteurized milk or milk products.
- Wash hands with soap and water before eating and preparing food, after contact with animals, and after handling raw meat.
- After handling raw chitterlings, clean hands and fingernails scrupulously with soap and water before touching infants or their toys, bottles, or pacifiers. Someone other than the foodhandler should care for children while chitterlings are being prepared.
- Prevent cross-contamination in the kitchen: -Use separate cutting boards for meat and other foods. -Carefully clean all cutting boards, counter-tops, and utensils with soap and hot water after preparing raw meat.
- Dispose of animal feces in a sanitary manner.

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

	October 2015				November 2014			
	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	5	1	3	N/A	Reported Seasonally; Currently Unavailable			
Mold Count	4,090	2,230	3,640	0 (All Good)	Reported Seasonally; Currently Unavailable			
Air Quality Index	47	21	35.5	0 (All Good)	45	17	24	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

	October 2015	YTD 2015	2014
Live Births	342	3,784	4,512
Births to Teens	22	269	380
Deaths	313	3,666	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	
	Oct.	YTD	Oct.	YTD	Oct.	YTD	Oct.	YTD	Oct.	YTD
Amebiasis	0	0	0	0	0	0	0	1	0	1
Babesiosis	0	0	0	0	0	0	0	1	0	1
Campylobacteriosis	1	5	1	15	0	0	2	29	4	49
Chlamydia infection	13	65	79	641	15	141	66	492	173	1,339
Cholera	0	0	0	0	0	0	0	0	0	0
Coccidioidomycosis	0	0	0	0	0	0	0	0	0	0
Cryptosporidiosis	0	3	0	1	2	5	4	17	6	26
Cyclosporiasis	0	0	0	0	0	0	0	1	0	1
E. coli-O157:H7 and Shiga toxin producing	0	0	0	3	0	1	0	10	0	14
Giardiasis	0	1	0	8	0	1	2	13	2	23
Gonococcal infection	1	22	31	280	2	37	6	72	40	411
Haemophilus Influenzae	0	2	0	3	0	0	0	2	0	7
Hemolytic Uremic Syndrome	0	0	0	0	0	0	0	0	0	0
Hepatitis A	0	0	0	2	0	0	1	2	1	4
Hepatitis B - acute	0	1	1	2	0	0	0	0	1	3
Hepatitis B - chronic	0	3	1	9	0	1	0	22	1	35
Hepatitis B - perinatal	0	0	0	2	0	0	0	4	0	6
Hepatitis C - acute	0	3	0	2	0	3	0	5	0	13
Hepatitis C - chronic	1	35	12	108	4	45	14	131	31	319
Influenza-associated hospitalization	0	7	0	75	0	24	0	175	0	281
Legionellosis	0	0	0	4	1	3	1	12	2	19
Lyme Disease	0	2	0	2	0	2	1	10	1	16
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	4	8	0	3	1	15	5	26
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	1	1	0	1	0	0	0	1	1	4
Mycobacterial disease - other than tuberculosis	0	0	0	2	1	3	3	13	4	18
Pertussis	0	6	0	8	0	3	2	18	2	35
Salmonellosis	0	1	0	10	0	4	6	27	6	42
Shigellosis	0	0	0	5	0	0	1	1	1	6
Streptococcal - Group A -invasive	0	0	0	1	0	2	0	5	0	8
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	1	2	0	7	0	1	1	9	2	19
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	2	0	3	1	1	0	8	1	14
Syphilis, Total	0	0	0	0	0	0	0	0	0	0
Syphilis, Primary and Secondary	0	0	0	0	0	0	0	0	0	0
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0	0	1	0	1
Tuberculosis	0	0	1	3	0	0	0	0	1	3
Typhoid Fever	0	0	0	0	0	0	0	0	0	0
Varicella	0	0	0	2	1	2	4	18	5	22
Vibriosis-Other (not cholera)	0	0	0	0	0	0	1	4	1	4
West Nile	0	0	0	0	0	0	1	1	1	1
Yersiniosis	0	0	0	0	0	0	1	6	1	6
Total	18	161	130	1,210	27	284	118	1,133	293	2,788

Source: Ohio Disease Reporting System, downloaded 11/10/2015.

Table 5–Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)	Oct. 2015	Oct. 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	4	12	49	68	74	59.2	15.762
Chlamydia	173	129	1,339	1,278	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	6	3	26	28	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	14	8	8	4.8	1.279
Ehrlichiosis/ Anaplasmosis	0	0	0	0	0	0.4	0.107
Giardiasis	2	6	23	14	15	44.2	11.773
Gonorrhea	40	46	411	454	527	561.6	149.588
Haemophilus influenzae , Invasive	0	1	7	6	6	7.4	1.971
Hemolytic Uremic Syndrome (HUS)	0	0	0	1	1	0.2	0.053
Hepatitis A	1	1	4	7	9	4.8	1.278
Hepatitis B, Acute	1	1	3	6	6	5.0	1.331
Hepatitis B, Chronic	1	2	35	35	41	32.6	8.683
Hepatitis B, Perinatal	0	0	6	1	1	0.8	0.21
Hepatitis C, Acute	0	1	13	3	4	4.8	1.279
Hepatitis C, Chronic	31	18	319	225	263	244.0	64.992
Hepatitis E	0	0	0	0	0	0.2	0.053
Influenza-associated hospitalization	0	3	281	140	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	2	0	19	4	6	13.6	3.622
Listeriosis	0	0	0	0	1	1.4	0.373
Lyme Disease	1	0	16	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	5	4	26	20	24	35.6	9.482
Meningitis, Other Bacterial	0	0	3	2	2	3.2	0.852
Meningococcal Disease	0	0	3	1	2	1.0	0.266
Mumps	1	0	4	4	5	1.4	0.373
Mycobacterial disease - Not TB	4	4	18	30	34	29.6	7.884
Other arthropod-borne disease	0	0	0	1	1	0.2	0.053
Pertussis	2	13	35	77	81	45.6	12.146
Q fever, acute	0	0	0	0	0	0.4	0.107
Salmonellosis	6	0	42	31	38	37.8	10.068
Shigellosis	1	2	6	68	69	33.8	9.003
Spotted Fever Rickettsiosis	0	0	0	0	0	0.6	0.160
Streptococcal Dis, Group A, Invasive	0	2	8	9	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	2	1	19	20	27	35.6	9.482
Strep. pneumo. - invasive antibiotic resistant /intermediate	1	1	14	6	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	1	0	3	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	5	4	22	21	24	35.0	9.323
Vibriosis	1	0	4	1	1	0.6	0.160
West Nile Virus	1	0	1	0	1	0.0	0.000
Yersiniosis	1	0	6	2	3	0.6	0.160

Source: OH Disease Reporting System, downloaded 11/10/2015. Rates are per 100K population and based on 5 yr. average incidence 10-14.* 10-14 from ODH Stats pg.