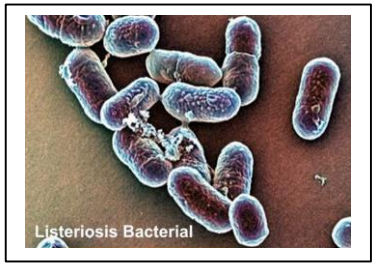
EPI GRAM March, 2015

A Monthly Publication of the Stark Public Health Infrastructure Coalition

EPI Gram *is a monthly 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.*



In March 2015, the CDC, FDA and local health officials in three states reported three recalls due to *Listeria monocytogenes.* These separate recalls were linked to ice cream products and frozen spinach that were nationally distributed. The first recall was due to a healthcare-associated Listeriosis outbreak which included 5 cases. All patients were hospitalized and had preexisting conditions. Three of the patients died due to the exposure. The second and third recalls were linked to organic frozen spinach, and no cases have been reported.

1. (http://www.cdc.gov/listeria/outbreaks/ice-cream-03-15/index.html). 2.(http://www.fda.gov/Safety/Recalls/ucm439761.htm).
3. (http://www.fda.gov/safety/recalls/ucm439755.htm)

L. monocytogenes can cause serious and sometimes fatal infections in young children, the elderly and others with weakened immune systems. Healthy individuals may have no symptoms or may suffer only short-term symptoms such as high fever, severe headache, stiffness, nausea, abdominal pain and diarrhea. However, *Listeria* infection can cause miscarriages and stillbirths among pregnant women. Systemic infection can occur and include septicemia and meningitis in older patients and those with compromised immune systems.

L. monocytogenes can be found in uncooked meats and vegetables, unpasteurized milk and cheeses, cooked or processed foods, including soft cheeses, processed (ready-to-eat) meats and smoked seafood. General recommendations to reduce risk of *Listeria* infection includes rinsing raw vegetables before consumption, separating uncooked meats and poultry from other edibles, washing kitchen surfaces after handling uncooked foods, cooking meat and poultry thoroughly and not drinking unpasteurized milk or eating foods containing unpasteurized milk. Specific guidelines for pregnant women, older adults and other at risk groups can be found at http://www.cdc.gov/listeria/prevention.html.

Stark County sees an average of 1.4 cases of Listeria a year (based on a 5 year average) without a reported outbreak. The incubation period in susceptible adults ranges from 3 to 70 days. The median incubation period is estimated to be 3 weeks.

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

	March 2015				April 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	Data collected Seasonally, not currently available.				685	5	45	
Mold Count					1290	250	450	**All Low**
Air Quality Index	35	19	25.5	**Good**	96	26	40.5	**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

	March 2015	YTD 2015	2014
Live Births	353	1144	4512
Births to Teens	21	83	380
Deaths	391	1307	4288

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 Rate

	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 330.493.9904 or Wagnerj@starkhealth.org or Amanda Archer at 330.489.3327 or aarcher@cantonhealth.org.

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

(Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	March	YTD	March	YTD	March	YTD	March	YTD	March	YTD
Amebiasis	0	0	0	0	0	0	0	1	0	1
Campylobacteriosis	0	0	2	2	0	0	2	5	4	7
Chlamydia infection	5	13	64	178	18	37	44	138	131	366
Cryptosporidiosis	0	0	1	1	0	0	1	3	2	4
E. coli-Not O157:H7	0	0	0	0	0	0	0	1	0	1
E. coli-O157:H7	0	0	0	0	0	0	0	0	0	0
Giardiasis	0	0	0	2	0	0	1	4	1	6
Gonococcal infection	2	6	26	62	4	8	5	17	37	93
Haemophilus influenzae (invasive disease)	0	0	1	1	0	0	0	2	1	3
Hepatitis A	0	0	0	1	0	0	0	0	0	1
Hepatitis B - Perinatal Infection	0	0	0	0	0	0	0	2	0	2
Hepatitis B - acute	0	0	1	1	0	0	0	0	1	1
Hepatitis B - chronic	2	3	0	2	0	0	5	9	7	14
Hepatitis C - acute	2	3	0	1	0	0	0	2	2	6
Hepatitis C - chronic	4	13	9	16	4	12	18	37	35	78
Influenza-associated hospitalization	2	5	4	62	2	20	23	142	31	229
Legionellosis - Legionnaires' Disease	0	0	0	0	0	0	1	1	1	1
Lyme Disease	0	1	0	0	0	0	0	1	0	2
Meningitis - aseptic/viral	0	0	0	1	1	2	2	3	3	6
Meningitis - bacterial (Not N. meningitidis)	0	0	0	0	0	0	1	1	1	1
Meningococcal disease - Neisseria meningitidis	0	0	0	1	1	1	0	0	1	2
Mumps	0	0	0	1	0	0	1	2	1	3
Mycobacterial disease - other than tuberculosis	0	0	1	1	1	1	0	3	2	5
Pertussis	0	3	0	8	0	3	1	6	1	20
Salmonellosis	0	0	0	1	0	0	1	3	1	4
Streptococcal - Group A -invasive	0	0	0	1	1	1	1	3	2	5
Streptococcal toxic shock syndrome (STSS)	0	0	0	1	0	0	0	0	0	1
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	0	0	1	0	0	1	3	1	4
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	1	0	1	0	0	3	5	3	7
Syphilis, Total	0	0	0	0	0	0	0	2	0	2
Syphilis, Primary and Secondary	0	0	0	0	0	0	0	1	0	1
Varicella	0	0	1	1	0	0	1	3	2	4
Yersiniosis	0	0	0	0	0	0	1	2	1	2
Total	17	48	110	347	32	85	113	402	272	882

Source: Ohio Disease Reporting System, downloaded 04/25/201

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

(Provisional Data)	March 2015	March 2014	YTD 2015	YTD 2014	All of 2014	5 Yr Annual Average	5 Yr Annual Rate
Anaplasmosis	0	0	0	0	0	0.2	0.053
Brucellosis	0	0	0	0	0	0.2	0.053
Campylobacteriosis	4	3	7	10	74	59.2	15.762
Chlamydia	131	120	366	404	1529	1465.2	390.110
Coccidioidomycosis	0	0	0	0	1	0.4	0.107
Creutzfeldt-Jakob Disease	0	0	0	0	0	0.6	0.160
Cryptosporidiosis	2	6	4	11	29	27.8	7.402
Cyclosporiasis	0	0	0	0	0	0.2	0.053
Dengue	0	0	0	0	0	0.8	0.213
Escherichia coli , STP, Not O157:H7	0	0	0	0	2	1.2	0.320
Escherichia coli O157:H7	0	0	0	0	6	2.8	0.746
Escherichia coli , STP, Unk Serotype	0	0	0	0	0	0.4	0.107
Ehrlichiosis/Anaplasmosis	0	0	0	0	0	0.2	0.053
Giardiasis	1	2	6	2	15	44.2	11.768
Gonorrhea	37	43	93	157	527	562.8	149.846
Haemophilus influenzae , Invasive	1	1	3	1	6	7.4	1.970
Hemolytic Uremic Syndrome (HUS)	0	0	0	0	1	0.2	0.053
Hepatitis A	0	1	1	1	9	4.8	1.278
Hepatitis B, Perinatal	0	0	2	0	1	2.6	0.692
Hepatitis B, Acute	1	2	1	2	6	5.2	1.385
Hepatitis B, Chronic	7	6	14	17	40	32.4	8.627
Hepatitis C, Acute	2	1	6	1	3	6	1.597
Hepatitis C, Chronic	35	24	78	70	257	247.8	65.977
Hepatitis E	0	0	0	0	0	0.2	0.053
Influenza-associated hospitalization	31	15	229	128	409	208.2	55.433
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	0	1	0	6	13.6	3.621
Listeriosis	0	0	0	0	1	1.4	0.373
Lyme Disease	0	0	2	1	9	10.8	2.876
Malaria	0	0	0	0	1	1	0.266
Measles (indigenous to Ohio)	0	0	0	0	9	1.8	0.479
Meningitis, Aseptic	3	4	6	5	24	35.6	9.479
Meningitis, Other Bacterial	1	0	1	1	2	3.2	0.852
Meningococcal Disease	1	1	2	1	2	1	0.266
Mumps	1	0	3	0	5	1.4	0.373
Mycobacterial disease - Not TB	2	0	5	6	34	30.4	8.094
Other arthropod-borne disease	0	0	0	0	1	0.2	0.053
Pertussis	1	6	20	14	81	45.6	12.141
Q fever, acute	0	0	0	0	0	0.4	0.106
Salmonellosis	1	2	4	5	38	37.8	10.064
Shigellosis	0	8	0	26	69	34	9.053
Streptococcal Dis, Group A, Invasive	2	0	5	1	10	15.8	4.207
Streptococcal Dis, Group B, in Newborn	0	0	0	0	1	2.4	0.639
Streptococcal Toxic Shock Syndrome	0	0	1	1	2	1	0.266
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	1	2	4	8	27	36	9.585
Streptococcus pneumo - inv antibiotic resistant/intermediate	3	0	7	1	9	18.8	5.006
Syphilis, Total	0	0	2	0	7	6.4	1.704
Syphilis, Primary and Secondary	0	0	1	0	7	0.8	0.213
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.8*	0.213*
Tuberculosis	0	0	0	0	1	1.8	0.479
Thyphoid Fever					1	0.4	0.107
Typhus Fever	0	0	0	0	0	0.2	0.053
Varicella	2	2	4	5	24	35.4	9.425
Vibriosis - other (not cholera)	0	0	0	0	1	0.6	0.160
Vibriosis parahaemolyticus	0	0	0	0	0	0.2	0.053
West Nile Virus	0	0	0	0	1	0.4	0.107
Yersiniosis	1	0	2	0	3	1.2	0.320

Source: ODRS, downloaded4/25/2015. Rates are per 100K population and based on 5 yr. average incidence 09-13.*08-12 from ODH Stats pg.