

# EPI GRAM August, 2019

## 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. **If you have any questions please contact Avinash Joseph at 330.493.9914 or [josepha@starkhealth.org](mailto:josepha@starkhealth.org), or Amanda Archer at 330.489.3327 or [aarcher@cantonhealth.org](mailto:aarcher@cantonhealth.org).**



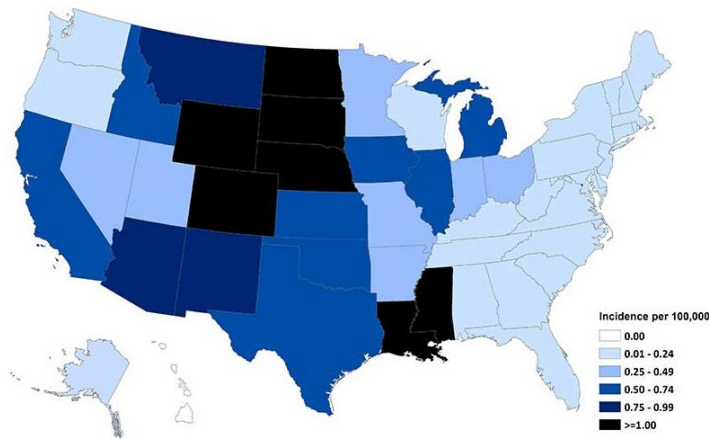
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### Monthly Highlight: West Nile Virus Infection

West Nile Virus Infection is a disease caused by the West Nile Virus, an arthropod-borne virus (arbovirus) most commonly found in mosquitos. The majority (~80%) of people who become infected display no symptoms of illness at all. About one fifth of those infected have symptoms of a febrile illness including headache, body ache, joint pain, vomiting, diarrhea, or rash. The most severe symptoms occur in <1% of those infected, who develop a significant neuroinvasive disease such as encephalitis or meningitis.

There are currently no medications or vaccines available to treat or prevent WNV. The most effective methods of reducing transmission are surveillance and control of mosquito populations and prevention of mosquito bites. It is particularly important to spray insecticides and larvicides regularly and eliminate stagnant water pools. It is also crucial for people in areas with risk of arboviral transmission to wear protective clothing (i.e. long sleeves), use personal insect repellent, and utilize mosquito netting.

Average annual incidence of West Nile virus neuroinvasive disease reported to CDC by state, 1999–2018



Source: ArboNET, Arboviral Diseases Branch, Centers for Disease Control and Prevention

Arboviral infections like WNV are most common in the late summer and early fall months. While Stark County and Ohio as a whole have yet to report any cases, last September there were 3 cases reported in the county alone, and mosquito pools in the county have tested positive for WNV this year. Preventive measures and surveillance are crucial to preventing the transmission of vector borne illnesses such as WNV in our community.

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

	August 2019				August 2018			
	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	327	0	25	N/A	163	1	42	N/A
Mold Count	7,200	0	4,260	<b>1 (Moderate)</b>	6,680	2,220	4,100	<b>1 (Moderate)</b>
Air Quality Index	71	36	52.5	<b>12 (Moderate)</b>	71	36	51	<b>7 (Moderate)</b>

\*\*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](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 Select Vital Statistics for Stark County**

	AUG 2019	YTD 2019	2018
Live Births	345	2790	4052*
Births to Teens	19	179	230*
Deaths	343	2847	4230*

\* Birth and death data is preliminary

**Table 3 Stark County Crude Birth Rate and Death Rates**

	2014	2015	2016	2017	2018*
Birth	11.3	11.2	11.3	10.7	10.9
Death	11.4	11.6	11.7	11.9	11.4

\*Source: Ohio Department of Health Data Warehouse. Rates are per 1,000 population. 2018 data is preliminary.

Table 4: Jurisdictional Summary of Reportable Diseases in Stark County, OH (Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	AUG	YTD	AUG	YTD	AUG	YTD	AUG	YTD	AUG	YTD
Campylobacteriosis	0	0	4	11	1	4	10	48	15	63
Chlamydia infection	13	101	84	547	21	120	80	480	198	1248
CP-CRE	0	0	0	3	0	4	1	8	1	15
Creutzfeldt-Jakob Disease	0	0	0	0	0	0	0	2	0	2
Cryptosporidiosis	0	3	1	3	0	0	8	25	9	31
E. coli, Shiga Toxin-Producing	0	0	2	3	0	2	1	4	3	9
Giardiasis	0	0	0	3	0	2	0	7	0	12
Gonococcal infection	3	22	22	212	5	40	22	108	52	382
Haemophilus influenzae (invasive disease)	0	0	0	1	0	0	0	2	0	3
Hepatitis A	0	2	0	1	0	3	1	8	1	14
Hepatitis B (including delta) - acute	0	1	0	3	0	2	0	0	0	6
Hepatitis B (including delta) - chronic	0	2	3	14	1	4	3	27	7	47
Hepatitis C - acute	0	0	0	1	0	0	0	0	0	1
Hepatitis C - chronic	3	21	6	79	3	29	13	102	25	231
Hepatitis E	0	0	0	0	0	0	0	0	0	0
Influenza-associated hospitalization	0	15	1	116	0	32	0	249	1	412
Legionellosis - Legionnaires' Disease	0	1	2	6	0	2	1	6	3	15
Listeriosis	0	0	0	0	0	0	0	2	0	2
Lyme Disease	0	1	1	2	1	1	9	37	11	41
Meningitis - aseptic/viral	1	2	0	2	0	3	0	2	1	9
Mumps	0	0	0	0	0	0	0	1	0	1
Pertussis	0	2	1	10	0	2	3	20	4	34
Salmonellosis	1	1	0	3	1	4	8	20	10	28
Shigellosis	0	0	0	3	0	0	0	18	0	21
Streptococcal - Group A -invasive	0	0	0	2	0	1	0	8	0	11
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	1	0	1
Streptococcus pneumoniae - inv antibiotic resistance unknown or non-resistant	0	1	0	3	0	0	2	12	2	16
Streptococcus pneumoniae – inv antibiotic resistant/intermediate	0	2	0	1	0	2	0	3	0	8
Syphilis, Total	0	2	2	11	0	1	0	8	2	22
➤ Syphilis, Primary, Secondary & Early Latent	0	2	1	6	0	0	0	7	1	16
Tuberculosis	0	0	0	1	0	0	0	2	0	3
Varicella	0	0	0	6	1	2	1	9	2	17
Vibriosis (not cholera)	0	0	0	0	0	1	2	2	2	3
Yersiniosis	0	0	0	0	0	0	0	3	0	3
<b>Total</b>	<b>22</b>	<b>179</b>	<b>131</b>	<b>1054</b>	<b>34</b>	<b>261</b>	<b>167</b>	<b>1240</b>	<b>354</b>	<b>2734</b>



Alliance City  
Health Department  
[cityofalliance.com/health](http://cityofalliance.com/health)



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**Health Department**

Massillon City  
Health Department  
[massillonohio.com/health](http://massillonohio.com/health)



Stark County  
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<b>Table 5 – Summary Table of Diseases Reported in the Previous 5 years within Stark County (Provisional Data)</b>	<b>AUG-19</b>	<b>AUG-18</b>	<b>YTD 2019</b>	<b>YTD 2018</b>	<b>All of 2018</b>	<b>5 Yr Annual Average</b>	<b>Rate</b>
Amebiasis	0	0	0	0	0	0.4	0.107
Anaplasmosis	0	0	0	2	2	0.6	0.161
Babesiosis	0	0	0	2	2	0.8	0.214
Brucellosis	0	0	0	0	0	0.2	0.054
Campylobacteriosis	15	11	63	57	85	77.6	20.761
Chlamydia	198	143	1248	1122	1713	1720.0	460.169
CP-CRE	1	3	15	4	27	24.0	6.421
Coccidioidomycosis	0	0	0	0	0	0.4	0.107
Creutzfeldt-Jakob Disease	0	0	2	0	1	1.2	0.321
Cryptosporidiosis	9	6	31	24	33	33.8	9.043
Cyclosporiasis	0	1	4	8	8	3.0	0.803
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	3	2	9	12	17	14.0	3.746
Giardiasis	0	5	12	16	23	21.8	5.832
Gonorrhea	52	60	382	389	643	580.2	155.227
Haemophilus influenzae , Invasive	0	1	3	3	4	6.4	1.712
Hemolytic Uremic Syndrome (HUS)	1	0	0	0	0	0.2	0.054
Hepatitis A	1	2	14	3	11	7.6	2.033
Hepatitis B, Perinatal	0	0	1	0	1	1.8	0.482
Hepatitis B, Acute	0	0	6	7	11	6.4	1.712
Hepatitis B, Chronic	7	6	47	59	85	57.6	15.410
Hepatitis C, Acute	0	2	1	6	5	6.2	1.659
Hepatitis C, Chronic	25	25	231	217	313	313.0	83.740
Hepatitis C-Perinatal Infection	1	2	2	2	4	4.0	1.070
Hepatitis E	0	0	0	0	0	0.2	0.054
Influenza-associated hospitalization	1	0	412	578	595	379.0	101.398
LaCrosse virus disease	0	1	0	3	4	1.0	0.268
Legionellosis	3	4	15	17	34	18.0	4.816
Listeriosis	0	1	2	1	1	1.0	0.268
Lyme Disease	11	10	41	31	38	24.0	6.421
Malaria	0	0	0	0	0	0.4	0.107
Measles (indigenous to Ohio)	0	0	1	0	0	2.0	0.535
Meningitis, Aseptic	1	9	9	31	46	34.6	9.257
Meningitis, Other Bacterial	0	0	1	3	4	3.4	0.910
Meningococcal Disease	0	0	0	0	0	1.0	0.268
Mumps	0	0	1	2	2	3.2	0.856
Pertussis	4	2	34	33	54	50.4	13.484
Q fever, chronic	0	0	0	0	0	0.2	0.054
Salmonellosis	10	4	28	35	61	47.8	12.788
Shigellosis	0	2	21	23	25	26.2	7.010
Spotted Fever Rickettsiosis	0	0	0	3	5	2.2	0.589
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0.2	0.054
Streptococcal Dis, Group A, Invasive	0	1	11	23	25	15.2	4.067
Streptococcal Dis, Group B, in Newborn	0	1	1	2	2	1.6	0.428
Streptococcal Toxic Shock Syndrome	0	0	0	0	0	0.8	0.214
Streptococcus pneumoniae – inv. antibiotic resistance unknown or non-resistant	2	2	16	21	29	30.6	8.187
Streptococcus pneumo – inv. antibiotic resistant/intermediate	0	1	8	5	10	13.4	3.585
Syphilis, Total	2	3	22	23	33	19.4	5.190
Syphilis, Primary, Secondary and Early Latent	1	1	16	11	19	11.8	3.157
Toxic Shock Syndrome (TSS)	0	0	0	0	0	0.2	0.054
Tuberculosis	0	0	3	1	5	2.4	0.642
Varicella	2	3	17	11	16	24.2	6.474
Vibriosis - other (not cholera)	2	0	3	0	1	2.2	0.589
Vibrio parahaemolyticus infection	0	0	0	0	0	0.0	0.000
West Nile Virus	0	1	0	1	8	2.2	0.589
Yersiniosis	0	0	3	1	3	6.4	1.712
Zika virus infection	0	0	0	0	0	1.0	0.268

Source: Ohio Disease Reporting System, downloaded 9/2019. Rates are per 100K population and based on 5 yr average incidence '14 – '18.