April 2023

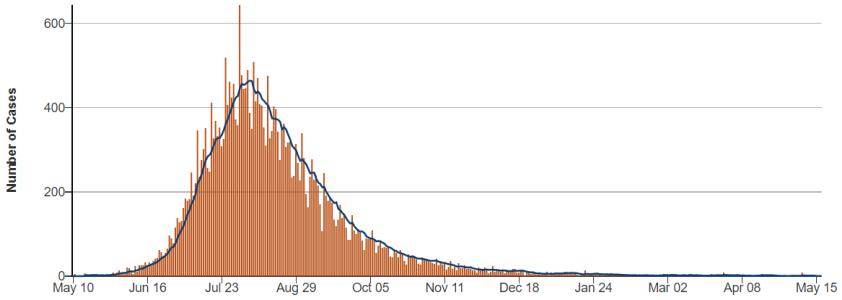
The EpiGram is a monthly publication of the Stark County Reportable and Emerging Disease Network (REDNET). It contains a summary of provisional communicable disease reports and other key public health indicators, with summary tables for each of the four local health department jurisdictions. Some reportable 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 Julianna Smith at 330.451.1650 or smithj@starkhealth.org, Cassie Johnson at 330.451.1688 or johnsonc@starkhealth.org or Kaelyn Boyd at 234.458.5135 or kboyd@cantonhealth.org.

Monthly Highlight: Mpox

Mpox virus, part of the Orthopoxvirus genus, is known to cause mpox disease (formerly monkeypox disease) and before 2022, was known to be endemic in the Western and Central regions of Afrcia since its discovery in the 1970s. In May 2022, several confirmed cases were reported in the UK with no known travel history to endemic areas. In July 2022, the WHO declared the multi-country outbreak a public health emergency of international concern. Since the beginning of the outbreak, there have been over 30,000 cases reported in the United States. Cases have been declining since the peak of the outbreak last August (Figure 1).

On May 15th 2023, the CDC issued a HAN regarding a cluster of mpox cases that had been identified in Chicago. From mid-April to the beginning of May, 12 confirmed cases and 1 probable case has been identified and reported to the local health department. The CDC recommends that clinicians be on alert for new cases of mpox and encourage vaccination for those at risk. Additional recommendations, including clinical regonition, vaccinations and treatments avaliable, can be found in the links below.

Figure 1. U.S. Mpox Case Trends Reported to CDC



Ohio's mpox dashboard is updated weekly and can be viewed at the link below. Ohio has not had a case reported since early Feburary 2023. Locally, Stark County has not had a case reported since October 2022. Despite mpox cases declining in the United States, it's important to remember that mpox is still circulating and that cases could increase this summer as people gather for festivals and events.

For more information:
https://www.cdc.gov/poxvirus/mpox/clinicians/index.html
https://odh.ohio.gov/know-our-programs/mpx/welcome

Table 2: Select Vital Statistics for Stark County

	April 2023	YTD 2023	2022
Live Births	289	1229	3,851
Births to Teens	20	67	183
Deaths	341	1593	4,807

* Birth and death data is preliminary.

Table 3: Stark County Crude Birth Rate and Death Rates

	2018	2019	2020	2021*	2022*
Birth	10.9	11.0	10.5	10.5	10.3
Death	11.8	12.0	14.1	14.5	12.8

*Source: Data Ohio. Rates are per 1,000 population. 2021 and 2022 data is preliminary.

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

	April 2023				May 2022			
	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	333	15	106	N/A	492	57	243	N/A
Mold Count	1,620	128	233	Good	8,300	700	3,600	Moderate (4)
Air Quality Index	90	34	46	Moderate (12)	74	28	44	Moderate (5)

**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/#/pages/reading-the-levels. Data source for this table is the Air Quality Division of the Canton City Health Department.

Jurisdictional Summary of Select Reportable Conditions in Stark County, OH (Provisional Data)	Alliance City		Canton City		Massillon City		Stark County		All Departments	
	Apr	YTD	Apr	YTD	Apr	YTD	Apr	YTD	Apr	YTD
Campylobacteriosis	0	1	5	7	0	1	3	12	8	21
Chlamydia infection	10	49	70	267	10	44	41	188	131	548
COVID-19	50	325	117	764	52	305	472	2458	691	3852
CP-CRE	0	0	0	4	0	1	3	10	3	15
Cryptosporidiosis	0	1	0	0	0	0	1	6	1	7
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	0	0	0	0	0	0	3	5	3	5
Giardiasis	0	1	0	0	0	0	1	2	1	3
Gonococcal infection	4	12	30	143	6	14	16	52	56	221
Haemophilus influenzae (invasive disease)	0	0	0	0	0	1	1	6	1	7
Hepatitis B (including delta) - chronic	0	0	1	2	1	1	3	6	5	9
Hepatitis C - acute	0	0	0	1	0	0	0	0	0	1
Hepatitis C - chronic	3	11	5	25	2	8	2	11	12	55
Hepatitis C - Perinatal Infection	0	0	0	0	0	0	0	1	0	1
Influenza-associated hospitalization	0	4	0	27	1	9	4	57	5	97
Legionellosis	0	0	0	0	0	0	1	2	1	2
Listeriosis	0	0	0	0	0	0	0	1	0	1
Lyme Disease	0	0	0	0	0	0	0	4	0	4
Meningitis - aseptic/viral	0	0	1	2	0	0	2	2	3	4
Meningitis - bacterial (Not N. meningitidis)	0	0	1	1	0	0	0	0	1	1
Mumps	0	0	0	0	0	1	0	0	0	1
Pertussis	0	0	0	0	0	0	0	3	0	3
Salmonellosis	0	1	0	3	0	1	2	6	2	11
Shigellosis	0	0	0	1	0	0	1	4	1	5
Staphylococcal aureus - intermediate resistance to vancomycin (VISA)	0	0	0	0	0	0	0	0	0	0
Streptococcal - Group A -invasive	0	2	2	5	0	0	5	13	7	20
Streptococcal - Group B - in newborn	0	0	0	0	0	0	0	0	0	0
Streptococcal toxic shock syndrome (STSS)	0	0	0	0	0	0	0	0	0	0
Streptococcus pneumoniae - invasive antibiotic resistance unknown or non-resistant	0	0	0	1	0	2	3	10	3	13
Streptococcus pneumoniae - invasive antibiotic resistant/intermediate	0	0	0	0	0	0	0	1	0	1
Syphilis, Total	0	1	3	19	0	4	4	13	7	37
Syphilis, Primary, Secondary and Early Latent	0	1	3	16	0	2	2	9	5	28
Toxic shock syndrome (TSS)	0	0	0	0	0	0	0	1	0	1
Tuberculosis	0	0	0	0	0	1	0	1	0	2
Varicella	0	0	0	1	0	0	1	1	1	2
Vibriosis (not cholera)	0	0	0	0	0	0	0	0	0	0
Yersiniosis	0	0	0	1	0	0	0	2	0	3
Zika virus infection	0	0	0	0	0	0	0	0	0	0
Total	67	408	235	1274	72	393	569	2878	943	4953

Source: Ohio Disease Reporting System, downloaded 5/3/2023.

Alliance City Health Department
Healthy Lifestyles, Healthy Community

Public Health
Prevent. Promote. Protect.

Massillon
City of Champions
Health Department

Stark County Health Department
"Striving Toward a Healthier Community."

Summary Table of Select Reportable Conditions Reported in the Previous 5 years within Stark County, OH (Provisional Data)	April 2023	April 2022	YTD 2023	YTD 2022	All of 2022	5 Year Annual Average	Rate
Anaplasmosis	0	0	0	0	1	0.4	0.11
Campylobacteriosis	8	6	21	17	71	70.0	18.83
Chlamydia	131	143	548	552	1672	1692.8	455.46
CP-CRE	3	1	15	10	22	15.2	4.09
Coccidioidomycosis	0	0	0	0	2	0.6	0.16
COVID-19	691	512	3852	16744	32266	19153.0	5153.29
Cryptosporidiosis	1	1	7	5	18	27.0	7.26
E. coli, Shiga Toxin-Producing (O157:H7, Not O157, Unknown Serotype)	3	1	5	1	10	11.8	3.17
Giardiasis	1	0	3	0	7	10.8	2.91
Gonorrhea	56	81	221	281	767	715.0	192.38
Haemophilus influenzae , Invasive	1	1	7	4	12	6.8	1.83
Hepatitis B, Acute	0	1	0	1	2	5.2	1.40
Hepatitis B, Chronic	5	2	9	9	29	36.0	9.69
Hepatitis C, Acute	0	1	1	4	7	7.0	1.88
Hepatitis C, Chronic	12	18	55	78	185	235.6	63.39
Hepatitis C - Perinatal Infection	0	0	1	0	1	0.8	0.22
Influenza-associated hospitalization	5	36	97	95	327	334.6	90.03
LaCrosse virus disease	0	0	0	0	1	1.2	0.32
Legionellosis	1	4	2	7	28	27.8	7.48
Listeriosis	0	1	1	1	3	1.2	0.32
Lyme Disease	0	2	4	8	28	22.4	6.03
Malaria	0	1	0	1	2	0.4	0.11
Meningitis, Aseptic	3	0	4	2	14	20.6	5.54
Meningococcal disease- Neisseria meningititdis	0	0	0	0	1	0.2	0.05
Meningitis, Other Bacterial	1	0	1	1	1	2.0	0.54
Monkeypox	0	0	0	0	8	1.6	0.43
MIS-C associated with COVID-19	0	0	0	5	5	3.2	0.86
Mumps	0	0	1	0	0	0.4	0.11
Pertussis	0	0	3	0	0	21.8	5.87
Salmonellosis	2	3	11	12	47	45.6	12.27
Shigellosis	1	1	5	4	13	13.2	3.55
Streptococcal Dis, Group A, Invasive	7	2	20	9	20	15.4	4.14
Streptococcal Dis, Group B, in Newborn	0	0	0	1	1	1.4	0.38
Streptococcal toxic shock syndrome (STSS)	0	0	0	0	1	0.2	0.05
Streptococcus pneumoniae - inv antibiotic resistance unknown or non-resistant	3	2	13	9	20	20.0	5.38
Streptococcus pneumo - inv antibiotic resistant/intermediate	0	2	1	8	18	11.4	3.07
Syphilis, Total	7	6	37	35	113	57.6	15.50
Syphilis, Primary, Secondary and Early Latent	5	6	28	29	84	41.4	11.14
Tuberculosis	0	0	2	0	0	1.6	0.43
Varicella	1	0	2	2	4	12.6	3.39
Yersiniosis	0	0	3	2	5	5.0	1.35

Source: Ohio Disease Reporting System, downloaded 5/3/2023. Rates are per 100K population and based on 5 yr. average incidence 2018-2022.