

2022 PORTAGE COUNTY COMMUNICABLE DISEASE REPORT



HEALTH DISTRICT

communicable
disease
infections

dengue
pertussis
varicella
salmonellosis
rabies
measles
mumps
chlamydia
gonorrhea
hepatitis
shingles
west nile
meningitis
shigellosis
streptococcal
campylobacteriosis
legionellosis
listeriosis
influenza
cryptosporidiosis
cp-crc
mcrs
e coli
versiniosis
covid

Prepared by:
Portage County Combined
General Health District
999 East Main Street
Ravenna, Ohio 44266
330-296-9919
www.portagehealth.net

INTRODUCTION

This annual report provides an epidemiological summary of communicable diseases (also called “infectious diseases”) reported to the Portage County Combined General Health District (PCHD) or Kent City Health Department (KCHD) in 2022. Ohio Administrative Code 3701-3-02 reads that diseases classified as Class “A,” “B,” and “C” can cause potential harm to public health and are to be reported to the Board of Health. Although COVID-19 is not specifically listed (see Pg 15 & 16), it is classified as a Class “A” disease. It is considered “an unexpected pattern of cases, suspected cases, deaths or increased incidence of any other disease of major public health concern, because of the severity of disease or potential for epidemic spread, which may indicate a newly recognized infectious agent.” (1, 2)

A standard reporting case definition has been set for most reportable conditions by the Center for Disease, Control, and Prevention (CDC), the Council of State and Territorial Epidemiologists (CSTE), and the Ohio Infectious Disease Control Manual (IDCM) (3, 4). These case definitions may differ from the criteria used to make a clinical diagnosis.

COVID-19

Staff at PCHD routinely work on disease surveillance and case investigations. On March 13, 2020, PCHD received notification of the first COVID-19 case within the county. COVID-19 is a respiratory illness that is caused by the SARS-CoV-2 virus. This virus spreads easily through respiratory droplets from an infected person. Cumulatively, the case counts reported for this disease to the health district overshadowed all other communicable disease reporting. To account for this high volume and to identify trends, several data tables and graphs will have COVID-19 removed and displayed in another graphic. PCHD began routine reporting of COVID-19 case counts internally and to community partners in March 2020. For more details on the data reports available, please visit the PCHD website (portagehealth.net).

DATA SOURCES

Incidence rates are the number of new disease cases within a specified period divided by the total population at risk in that period. Data in this report is presented primarily as counts of cases or as incidence rates per 100,000 persons. When more than one year of data is presented, the incidence rates are calculated per 100,000 person-years. Data used in this report are reportable conditions in the Ohio Disease Reporting System (ODRS), where the onset of the disease was between January 1, 2018, to December 31, 2022. Population estimates were pulled from the U.S. Census for 2019 and 2021 (5). Due to limitations in extracting data from ODRS, incidence rates for 2022 reportable conditions were mapped using the 2019 U.S. Census. These numbers include confirmed and probable cases. Cases deemed “not a case” or “suspected” were removed from the analysis.

If you have any questions about this report, contact Penny Paxton, Epidemiologist at Portage County Health District (ppaxton@portagehealth.net).



Demographic Profile

Table 1: Portage County Population by Gender, 2021

Gender	Population	Percent (%)
Female	82,041	50.7
Male	79,856	49.3
Total	161,897	100

Table 2: Portage County Population by Race, 2021

Race	Population	Percent (%)
White	144,293	89.1
Black or African American	7,048	4.4
Two or More Races	6,555	4.1
Asian	2,975	1.8
Other	884	0.5
American Indian & Alaskan Native	142	0.1
Total	161,897	100

Table 3: Portage County Population by Hispanic/Non-Hispanic, 2021

Ethnicity	Population	Percent (%)
Not Hispanic or Latino	158,679	98.0
Hispanic or Latino (of any race)	3,218	2.0
Total	161,897	100

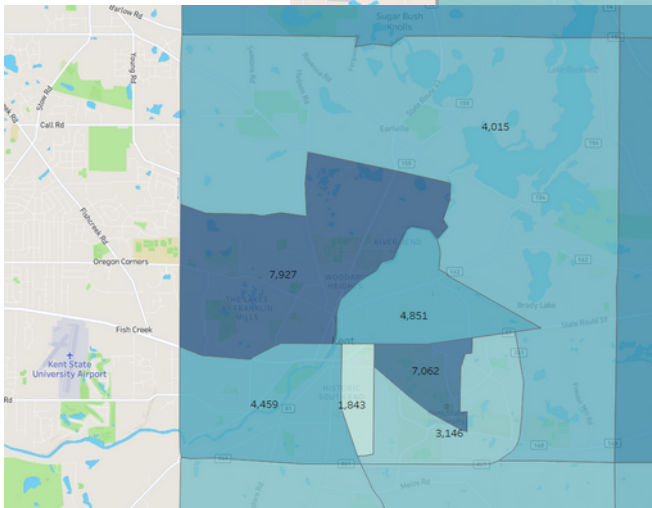
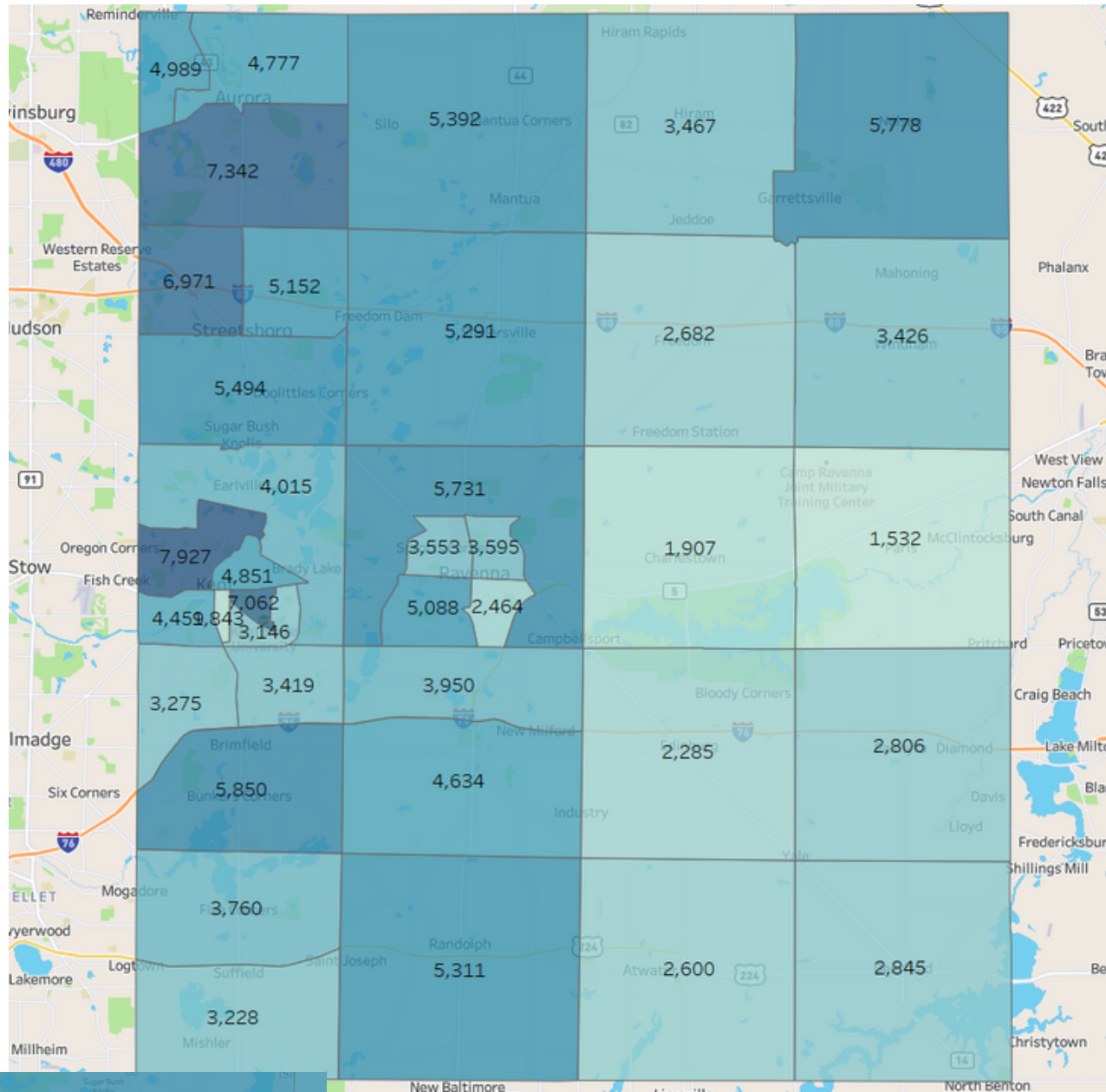
Table 4: Portage County Population by Age Group, 2021

Age Group	Population	Percent (%)
Under 5 years	7,197	4.4
5 to 9 years	17,358	10.7
10 to 19 years	13,022	8.0
20 to 34 years	36,665	22.7
35 to 59 years	48,487	30.0
60 years and older	39,168	24.2
Total	161,897	100

Hispanic can include Mexican, Puerto Rican, Cuban and Other.

Changes from previous years in demographics. From 2020 to 2021 there has been an estimated decrease 1.7% (579 people) in the county population.

Demographic Profile



U.S. Census 2021 estimated population sizes for Portage County by census tract (5).

To the left is a zoom-in of Kent City, Brimfield Township, and Franklin Township populations.

Counts and Rates of Communicable Disease

Table 5: Portage County Counts and Rates of Communicable Diseases for 2018-2022

Class	Reportable Condition	2018		2019		2020		2021		2022	
		Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate
Enteric Disease											
B	Campylobacteriosis	28	17.2	28	17.2	16	9.8	25	15.4	25	15.4
B	Cryptosporidiosis	10	6.2	6	3.7	1	0.6	5	3.1	2	1.2
B	E. coli, Shiga Toxin-Producing	10	6.2	9	5.5	7	4.3	15	9.2	7	4.3
B	Listeriosis			2	1.2	2	1.2	1	0.6	1	0.6
B	Salmonellosis	16	9.8	30	18.5	15	9.2	14	8.6	26	16.1
B	Shigellosis	1	0.6			3	1.8	4	2.5	2	1.2
B	Yersiniosis	2	1.2	2	1.2			1	0.6	5	3.1
Hepatitis Infections											
B	Hepatitis A	2	1.2	26	16.0			1	0.6		
B	Hepatitis B - chronic	25	15.4	21	12.9	13	8.0	14	8.6	12	7.4
B	Hepatitis B - acute	3	1.8	1	0.6	1	0.6	1	0.6		
B	Hepatitis C - Perinatal Infection	1	0.6	1	0.6					1	0.6
B	Hepatitis C - acute	3	1.8	4	2.5	1	0.6	1	0.6		
B	Hepatitis C - chronic	112	68.9	122	75.1	113	69.5	105	64.6	73	45.1
Respiratory Diseases/Infections											
A*	COVID-19					8010	4928.9	21782	13403.4	13988	8640.1
B	Influenza-associated hospitalization	206	126.8	138	84.9	117	72.0	4	2.5	82	50.6
B	Legionellosis	14	8.6	11	6.8	6	3.7	11	6.8	4	2.5
Sexually Transmitted Diseases											
B	Chlamydia infection	704	433.2	725	446.1	628	386.4	535	329.2	554	342.2
B	Gonococcal infection	110	67.7	134	82.5	173	106.5	193	118.8	143	88.3
B	Syphilis	2	1.2	2	1.2	3	1.8	2	1.2	5	3.1
Vaccine-Preventable											
B	Mumps			2	1.2						
B	Pertussis	10	6.2	8	4.9	4	2.5	3	1.8	3	1.9
B	Varicella	3	1.8	3	1.8	2	1.2	1	0.6	4	2.5

Counts and Rates of Communicable Disease

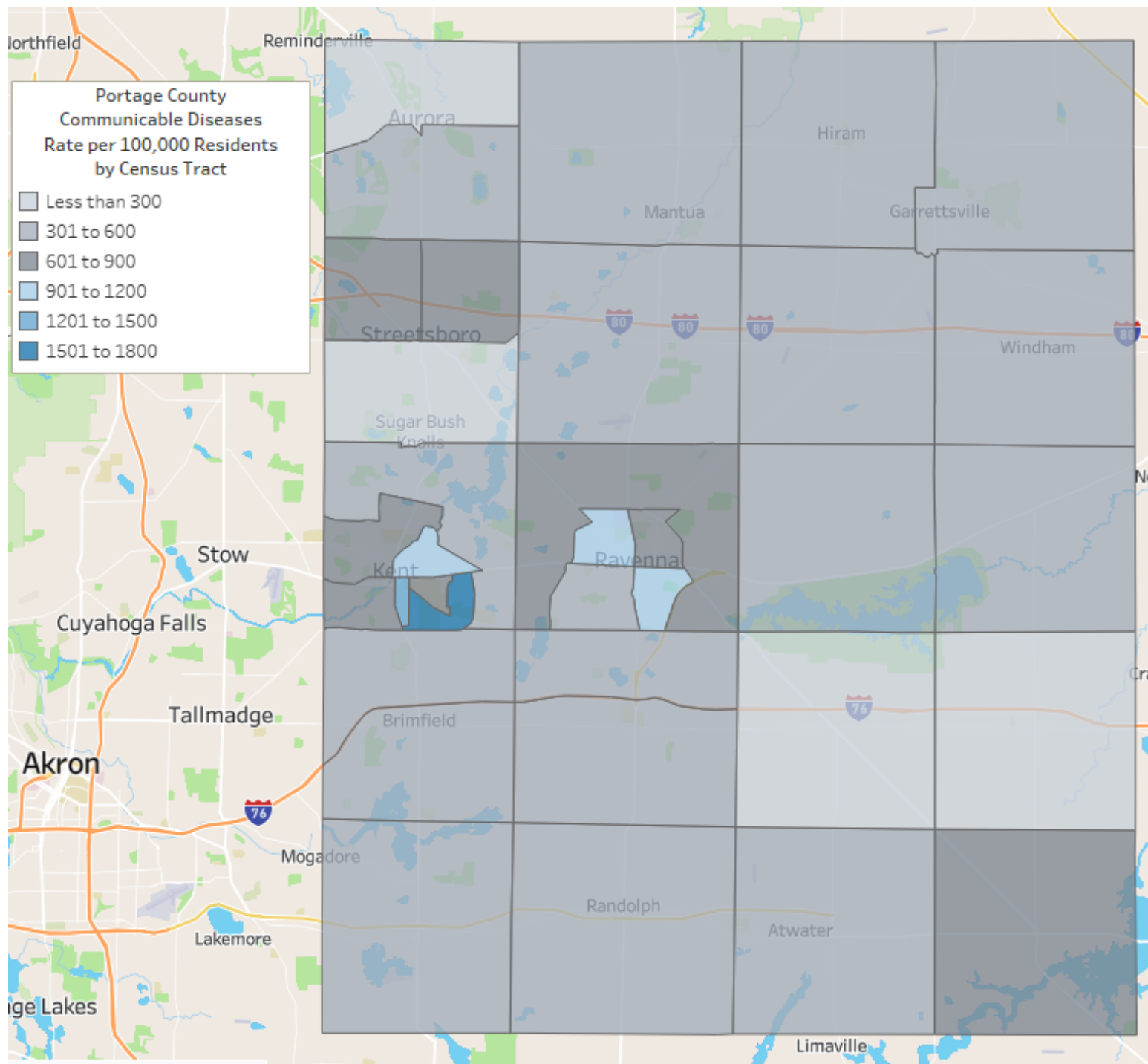
Table 5: Portage County Counts and Rates of Communicable Diseases for 2018-2022

Class	Reportable Condition	2018		2019		2020		2021		2022	
		Count	Rate	Count	Rate	Count	Rate	Count	Rate	Count	Rate
Vector borne and Zoonotic Disease											
B	Anaplasmosis-Anaplasma phagocytophilum					1	0.6				
B	Dengue			1	0.6						
B	Ehrlichiosis-Ehrlichia chaffeensis	1	0.6							1	0.6
B	LaCrosse virus disease			1	0.6	1	0.6				
B	Leptospirosis	1	0.6								
B	Lyme Disease	5	3.1	13	8.0	6	3.7	18	11.1	8	4.9
B	West Nile Virus Disease	No cases in five years for Portage County									
General Infectious Diseases											
B	Botulism - infant					1	0.6				
B	Coccidioidomycosis										
B	CP-CRE	5	3.1	4	2.5	2	1.2	4	2.5	10	6.2
B	Creutzfeldt-Jakob Disease	1	0.6	2	1.2						
B	Cyclosporiasis	1	0.6			1	0.6				
B	Giardiasis	6	3.7	4	2.5	6	3.7	2	1.2	3	1.9
B	Haemophilus influenzae			3	1.8	3	1.8			3	1.9
B	Meningitis - bacterial			1	0.6			1	0.6		
B	Meningitis - aseptic/viral									5	3.1
B	MIS-C associated with COVID-19							3	1.8	3	1.9
B	Mpox (MPX)									2	1.2
B	Mycobacterial disease - other than TB	No cases in five years for Portage County									
B	Spotted Fever Rickettsiosis			2	1.2						
B	Staphylococcal aureus - (VISA)									1	0.6
B	Streptococcus pneumoniae - invasive	17	10.5	12	7.4	8	4.9	6	3.7	13	8.0
B	Streptococcal - Group A -invasive	4	2.5	11	6.8	9	5.5	1	0.6	3	1.9
B	Streptococcal - Group B - in newborn			1	0.6	3	1.8				
B	Streptococcal toxic shock syndrome	1	0.6								
B	Tuberculosis			1	0.6						
B	Vibriosis			3	1.8	1	0.6	1	0.6		
Grand Total		1304	802.4	1334	820.9	9157	5634.7	22754	14054.6	14989	9258.4

*For 2021 & 2022, COVID-19 was a Class A reportable disease. On January 30, 2023, there was a third amendment to the Ohio Reporting Requirement. At the beginning of 2023, COVID-19 became a Class B reportable disease. This change will be reflected in the 2023 report.

Counts and Rates of Communicable Disease

Below is a map of Portage County's communicable disease rates by census tract. This graphic does not include COVID-19 rates because 78.5% of cases for 2022 were COVID-19 cases.



Counts and Rates of Communicable Disease

Table 6: Portage County Reportable Conditions, *Case Counts, **2022**

Reportable Conditions	Kent City		Portage County (excluding Kent City)		Total Case Count	% of Total CD Cases for Portage County**
	Case Count	% of Cases	Case Count	% of Cases		
Campylobacteriosis	1	4.0%	24	96.0%	25	2.5%
Chlamydia infection	205	37.0%	349	63.0%	554	55.3%
CP-CRE	2	20.0%	8	80.0%	10	1.0%
Cryptosporidiosis		0.0%	2	100.0%	2	0.2%
E. coli, Shiga Toxin-Producing		0.0%	7	100.0%	7	0.7%
Ehrlichiosis-Ehrlichia chaffeensis		0.0%	1	100.0%	1	0.1%
Giardiasis		0.0%	3	100.0%	3	0.3%
Gonococcal infection	55	38.5%	88	61.5%	143	14.3%
Haemophilus influenzae (invasive)	1	33.3%	2	66.7%	3	0.3%
Hepatitis B - chronic	4	33.3%	8	66.7%	12	1.2%
Hepatitis C - chronic	10	13.7%	63	86.3%	73	7.3%
Hepatitis C - Perinatal Infection		0.0%	1	100.0%	1	0.1%
Influenza-associated hospitalization	7	8.5%	75	91.5%	82	8.2%
Legionellosis	1	25.0%	3	75.0%	4	0.4%
Listeriosis		0.0%	1	100.0%	1	0.1%
Lyme Disease	2	25.0%	6	75.0%	8	0.8%
Meningitis - aseptic/viral		0.0%	5	100.0%	5	0.5%
MIS-C associated with COVID-19		0.0%	3	100.0%	3	0.3%
Mpox (MPX)	1	50.0%	1	50.0%	2	0.2%
Pertussis		0.0%	3	100.0%	3	0.3%
Salmonellosis	2	7.7%	24	92.3%	26	2.6%
Shigellosis		0.0%	2	100.0%	2	0.2%
Staphylococcal aureus - (VISA)		0.0%	1	100.0%	1	0.1%
Streptococcal - Group A -invasive	1	33.3%	2	66.7%	3	0.3%
Streptococcus pneumoniae	1	7.7%	12	92.3%	13	1.3%
Syphilis - unknown duration or late	3	60.0%	2	40.0%	5	0.5%
Varicella	2	50.0%	2	50.0%	4	0.4%
Yersiniosis		0.0%	5	100.0%	5	0.5%
Grand Total	298	29.8%	703	70.2%	1001	100.0%

*Case counts include confirmed and probable cases based on the event date. COVID-19 was removed from this chart because 93.3% of cases for 2022 were COVID-19 cases. This table aims to identify reportable disease prevalence in addition to COVID-19.

**Within this table, the percentage is the number of cases for each jurisdiction. Column "% of CD Total Cases" is the percentage for the entire Portage County.

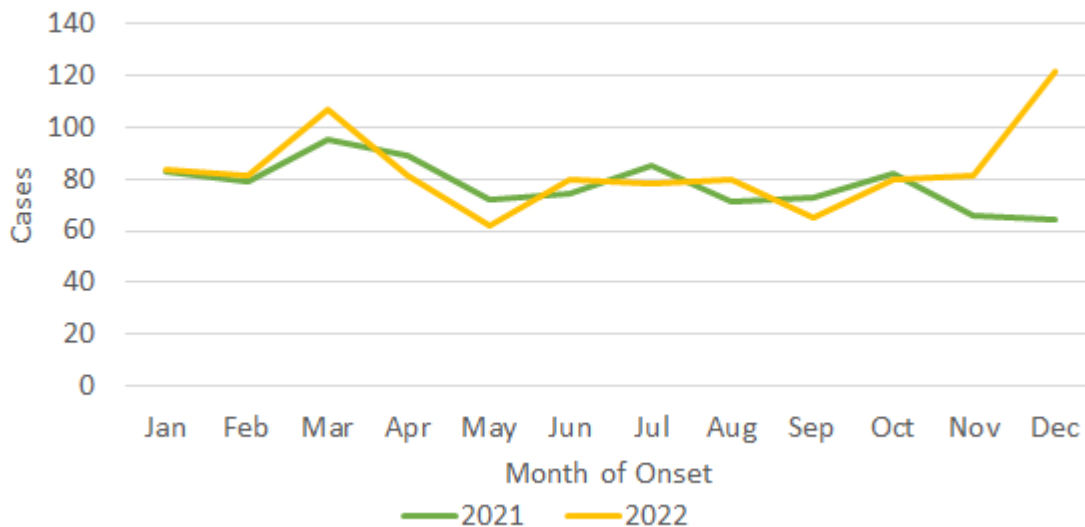
Counts and Rates of Communicable Disease

Table 7: Top Ten Portage County Reportable Conditions, **2022**

Reportable Condition	Count	Rate
COVID-19	13,988	8640.1
Chlamydia Infection	554	342.2
Gonococcal Infection	143	88.3
Influenza- associated hospitalization	82	50.6
Hepatitis- C chronic	73	45.1
Salmonellosis	26	16.1
Campylobacteriosis	25	15.4
Streptococcus	13	8
Hepatitis- B chronic	12	7.4
CP- CRE	10	6.2

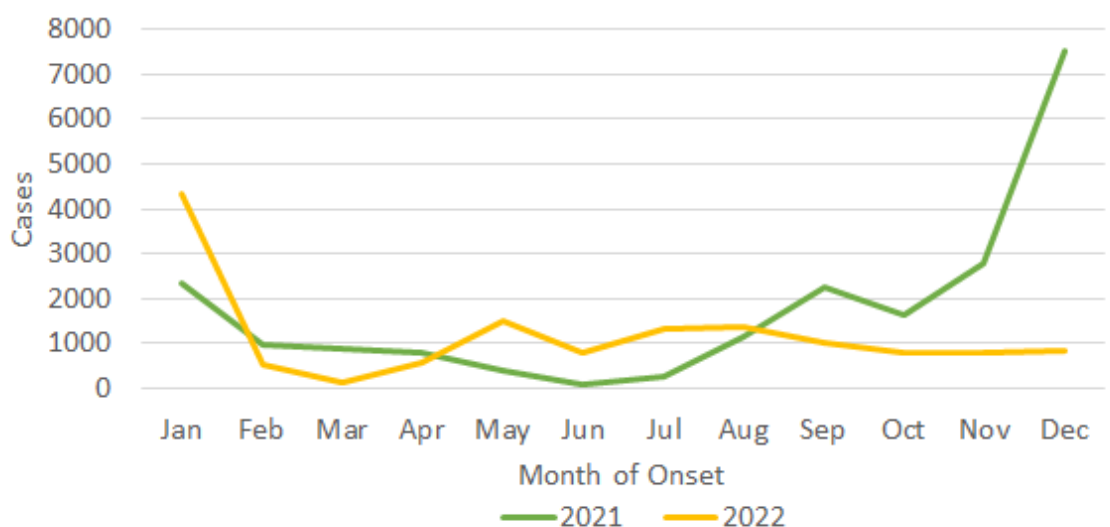
Communicable Disease Trends

All Communicable Disease Case Counts, Excluding COVID-19, Portage County by Month, 2021-2022



In December, communicable diseases reported in 2022 doubled compared to the previous year (2021). This graph excludes COVID-19 cases reported.

COVID-19 Case Count in Portage County by Month, 2021-2022



The graph to the right shows the number of COVID-19 cases reported over a two-year period by month.

In December 2021, 9 times as many COVID-19 cases were reported compared to December 2022. Additional in-depth counts and rates for COVID-19 can be found on the Portage County Combined General Health District Website.

Top Communicable Diseases in Portage County by Gender

Table 8a: Top Communicable Diseases in Portage County by Gender*, **2022**

Female			Male		
Reportable Conditions	Count	Rate	Reportable Conditions	Count	Rate
Chlamydia infection	374	455.9	Chlamydia infection	180	225.4
Gonococcal infection	63	76.8	Gonococcal infection	80	100.2
Influenza-associated hospitalization	49	59.7	Hepatitis C - chronic	36	45.1
Hepatitis C - chronic	35	42.7	Influenza-associated hospitalization	33	41.3
Salmonellosis	16	19.5	Campylobacteriosis	17	21.3
Campylobacteriosis	8	9.8	Salmonellosis	10	12.5
Streptococcus pneumoniae	7	8.5	Hepatitis B - chronic	8	10.0
CP-CRE	5	6.1	Lyme Disease	6	7.5
E. coli, Shiga Toxin-Producing	4	4.9	Streptococcus pneumoniae	5	6.3
Hepatitis B - chronic	4	4.9	CP-CRE	5	6.3
Grand Total	591	720.4	Grand Total	407	509.7

*Total reportable conditions numbers are for that period and the table is displaying the top 10 conditions for that period. COVID-19 was removed from this chart because 78.5% of cases for the year 2022 were COVID-19 cases. Purpose of this table is to identify reportable diseases prevalence in addition to COVID-19.

Table 8b: Top Communicable Diseases in Portage County by Gender*, **2018-2022**

Female			Male		
Reportable Conditions	Count	Rate	Reportable Conditions	Count	Rate
Chlamydia infection	2392	583.1	Chlamydia infection	1182	296.0
Gonococcal infection	399	97.3	Gonococcal infection	418	104.7
Influenza-associated hospitalization	338	82.4	Hepatitis C - chronic	375	93.9
Hepatitis C - chronic	303	73.9	Influenza-associated hospitalization	341	85.4
Campylobacteriosis	65	15.8	Campylobacteriosis	70	17.5
Salmonellosis	65	15.8	Hepatitis B (including delta) - chronic	66	16.5
Hepatitis B - chronic	40	9.8	Salmonellosis	50	12.5
Streptococcus pneumoniae	34	8.3	Lyme Disease	37	9.3
Legionellosis	32	7.8	Streptococcus pneumoniae	29	7.3
E. coli, Shiga Toxin-Producing	29	7.1	Legionellosis	25	6.3
Grand Total	26445	6446.8	Grand Total	21027	5266.2

*Total reportable conditions numbers are for that period and the table is displaying the top 10 conditions for that period. COVID-19 was removed from this chart because 78.5% of cases for the year 2022 were COVID-19 cases. Purpose of this table is to identify reportable diseases prevalence in addition to COVID-19.

**The rate for a five year period is an incidence rate per 100,000 person-year and the rate for the singular year is an incidence rate per 100,000 person.

Top Communicable Diseases in Portage County by Race

Table 9a: Top Communicable Diseases in Portage County by Race*, **2022**

White

Reportable Condition	Rate
Chlamydia infection	199.6
Gonococcal infection	40.2
Influenza-associated hospitalization	50.6
Hepatitis C - chronic	44.4
Salmonellosis	17.3
Campylobacteriosis	15.9
Streptococcus pneumoniae	8.3
Hepatitis B - chronic	6.2
CP-CRE	4.9
Lyme Disease	5.5
Total Reportable Condition**	426.2

Black

Reportable Condition	Rate
Chlamydia infection	2199.2
Gonococcal infection	766.2
Influenza-associated hospitalization	113.5
Hepatitis C - chronic	28.4
Salmonellosis	14.2
Campylobacteriosis	14.2
Streptococcus pneumoniae	14.2
Syphilis - unknown duration or late	14.2
Streptococcal - Group A -invasive	14.2
MIS-C associated with COVID-19	14.2
Total Reportable Condition**	3192.4

Asian

Reportable Condition	Rate
Chlamydia infection	40.3
Hepatitis B - chronic	20.2
Varicella	6.7
Total Reportable Condition**	67.2

Other*

Reportable Condition	Rate
Chlamydia infection	1364.5
Gonococcal infection	584.8
Hepatitis C - chronic	292.4
Influenza-associated hospitalization	97.5
E. coli, Shiga Toxin-Producing	97.5
Haemophilus influenzae	97.5
Total Reportable Condition**	2534.1

One hundred-five records do not indicate race. In addition, for Asian Portage County Residents, there were only three reportable diseases from 2022.

*Category "Other" does not include records marked as unknown, White, Black or Asian.

**Total reportable conditions in these tables display the total amount for all conditions in the 2022 period, not only the top 10 listed in the chart. COVID-19 was removed from this chart because from 2020 to 2022, cases were predominately COVID-19 infections. This table aims to identify reportable disease prevalence by race in addition to COVID-19.

***Streptococcus pneumoniae includes invasive antibiotic resistant/intermediate, resistance unknown or non-resistant

Top Communicable Diseases in Portage County by Race

Table 10b: Top Communicable Diseases in Portage County by Race*, **2018-2022**

White

Reportable Condition	Rate
Chlamydia infection	1095.7
Influenza-associated hospitalization	338.2
Hepatitis C - chronic	275.8
Gonococcal infection	234.9
Campylobacteriosis	74.2
Salmonellosis	62.4
Streptococcus pneumoniae	37.4
Hepatitis B (including delta) - chronic	34.7
Lyme Disease	29.8
E. coli, Shiga Toxin-Producing	28.4
Total Reportable Condition**	2407.6

Black

Reportable Condition	Rate
Chlamydia infection	9350.2
Gonococcal infection	3405.2
Influenza-associated hospitalization	411.5
Hepatitis C - chronic	255.4
Hepatitis B (including delta) - chronic	127.7
Syphilis - unknown duration or late	56.8
Campylobacteriosis	42.6
E. coli, Shiga Toxin-Producing	42.6
Salmonellosis	28.4
Giardiasis	28.4
Total Reportable Condition**	3192.4

Asian

Reportable Condition	Rate
Chlamydia infection	840.3
Hepatitis B (including delta) - chronic	336.1
Influenza-associated hospitalization	100.8
Varicella	67.2
Hepatitis C - chronic	33.6
Campylobacteriosis	33.6
Streptococcal - Group A -invasive	33.6
Hepatitis B (including delta) - acute	33.6
Listeriosis	33.6
Total Reportable Condition**	1512.6

Other*

Reportable Condition	Rate
Chlamydia infection	12963.0
Gonococcal infection	3898.6
Hepatitis C - chronic	1949.3
Influenza-associated hospitalization	389.9
Salmonellosis	194.9
Campylobacteriosis	97.5
E. coli, Shiga Toxin-Producing	97.5
Giardiasis	97.5
Legionellosis	97.5
Hepatitis B - chronic	97.5
Total Reportable Condition**	20272.9

Five hundred-seven records do not indicate race. In addition, for Asian Portage County Residents, there were only nine reportable diseases from 2018 to 2022.

*Category "Other" does not include records marked as unknown, White, Black, or Asian. In addition, nine different reportable conditions had the same incidence rate for the 6th most common. These conditions include Campylobacteriosis, E. coli, Shiga Toxin-Producing, Giardiasis, Legionellosis, Hepatitis B - chronic, Haemophilus influenzae, Syphilis, Streptococcal, and Vibriosis.

**Total reportable conditions in these tables display the total amount for all conditions in the 2018 to 2022 period, not only the top 10 listed in the chart. COVID-19 was removed from this chart because from 2020 to 2022, cases were predominately COVID-19 infections. This table aims to identify reportable disease prevalence by race in addition to COVID-19.

***Streptococcus pneumoniae includes invasive antibiotic resistant/intermediate, resistance unknown, or non-resistant

Top Communicable Diseases in Portage County by Ethnicity

Table 11a: Top Communicable Diseases in Portage County by Ethnicity*, **2022**

Hispanic or Latino	
Reportable Condition	Rate
Chlamydia infection	404.0
Gonococcal infection	62.2
Hepatitis C - chronic	31.1
Streptococcus pneumoniae	31.1
Total Reportable Condition**	528.3

For Hispanic or Latino Portage County Residents there were only four reportable diseases for 2022

Not Hispanic or Latino	
Reportable Condition	Rate
Chlamydia infection	254.0
Gonococcal infection	66.2
Hepatitis C - chronic	37.8
Influenza-associated hospitalization	32.1
Salmonellosis	15.8
Total Reportable Condition**	475.8

Table 11b: Top Communicable Diseases in Portage County by Ethnicity*, **2018-2022**

Hispanic or Latino	
Reportable Condition	Rate
Chlamydia infection	335.6
Gonococcal infection	49.7
Influenza-associated hospitalization	18.6
Hepatitis C - chronic	18.6
Campylobacteriosis	12.4
Total Reportable Condition**	478.6

Not Hispanic or Latino	
Reportable Condition	Rate
Chlamydia infection	252.3
Gonococcal infection	69.4
Influenza-associated hospitalization	51.2
Hepatitis C - chronic	41.0
Campylobacteriosis	12.1
Total Reportable Condition**	492.7

In 2022, 22.9% (229) of records were missing ethnicity, and for the 5-year rates, 28.6% (1593) of records do not have ethnicity information.

Top Communicable Diseases in Portage County

Table 12: Top Communicable Diseases in Portage County by Age*, 2022

Under 5 years

Reportable Condition	Rate
Influenza-associated hospitalization	55.6
Meningitis - aseptic/viral	27.8
E. coli, Shiga Toxin-Producing	27.8
Hepatitis C - chronic	27.8
Campylobacteriosis	27.8
Total Reportable Condition**	222.3

5 to 9 Years

Reportable Condition	Rate
Influenza-associated hospitalization	28.8
CP-CRE	11.5
Lyme Disease	11.5
Varicella	5.8
Salmonellosis	5.8
Total Reportable Condition**	86.4

Streptococcus pneumoniae, Hepatitis C - chronic, Pertussis, and MIS-C were also a rate of 5.8 per 100,000

10 to 19 Years

Reportable Condition	Rate
Chlamydia infection	1205.7
Gonococcal infection	322.5
Influenza-associated hospitalization	46.1
Lyme Disease	15.4
Campylobacteriosis	15.4
Total Reportable Condition**	1628.0

The youngest chlamydia case was fifteen years of age and the youngest gonococcal case was thirteen years of age.

20 to 34 years

Reportable Condition	Rate
Chlamydia infection	981.9
Gonococcal infection	215.5
Hepatitis C - chronic	54.5
Influenza-associated hospitalization	19.1
Campylobacteriosis	13.6
Total Reportable Condition**	1325.5

Hepatitis B - chronic also had a 13.6 rate

35 to 59 Years

Reportable Condition	Rate
Chlamydia infection	68.1
Hepatitis C - chronic	63.9
Gonococcal infection	37.1
Influenza-associated hospitalization	26.8
Salmonellosis	16.5
Total Reportable Condition**	268.1

60 Years or Older

Reportable Condition	Rate
Influenza-associated hospitalization	120.0
Hepatitis C - chronic	46.0
Salmonellosis	30.6
Campylobacteriosis	25.5
Streptococcus pneumoniae	25.5
Total Reportable Condition**	357.4

Top Communicable Diseases in Portage County

Table 13: Top Communicable Diseases in Portage County by Age*, **2018-2022**

Under 5 years

Reportable Condition	Rate
Influenza-associated hospitalization	47.2
Salmonellosis	27.8
Meningitis - aseptic/viral	19.5
Campylobacteriosis	19.5
*Pertussis	11.1
Total Reportable Condition**	194.5

E. coli, Shiga toxin -Producing and Streptococcal - Group B - in newborn had a 11.1 rate.

5 to 9 Years

Reportable Condition	Rate
Influenza-associated hospitalization	11.5
Lyme Disease	10.4
Pertussis	6.9
Campylobacteriosis	3.5
Salmonellosis	3.5
Total Reportable Condition**	56.5

10 to 19 Years

Reportable Condition	Rate
Chlamydia infection	1313.2
Gonococcal infection	224.2
Influenza-associated hospitalization	23.0
Campylobacteriosis	16.9
Lyme Disease	13.8
Total Reportable Condition**	1641.8

20 to 34 years

Reportable Condition	Rate
Chlamydia infection	1089.3
Gonococcal infection	240.0
Hepatitis C - chronic	90.5
Influenza-associated hospitalization	20.2
Hepatitis B (including delta) - chronic	11.5
Total Reportable Condition**	1510.98

35 to 59 Years

Reportable Condition	Rate
Hepatitis C - chronic	87.4
Chlamydia infection	66.0
Gonococcal infection	44.1
Influenza-associated hospitalization	40.8
Hepatitis B - chronic	16.5
Total Reportable Condition**	337.8

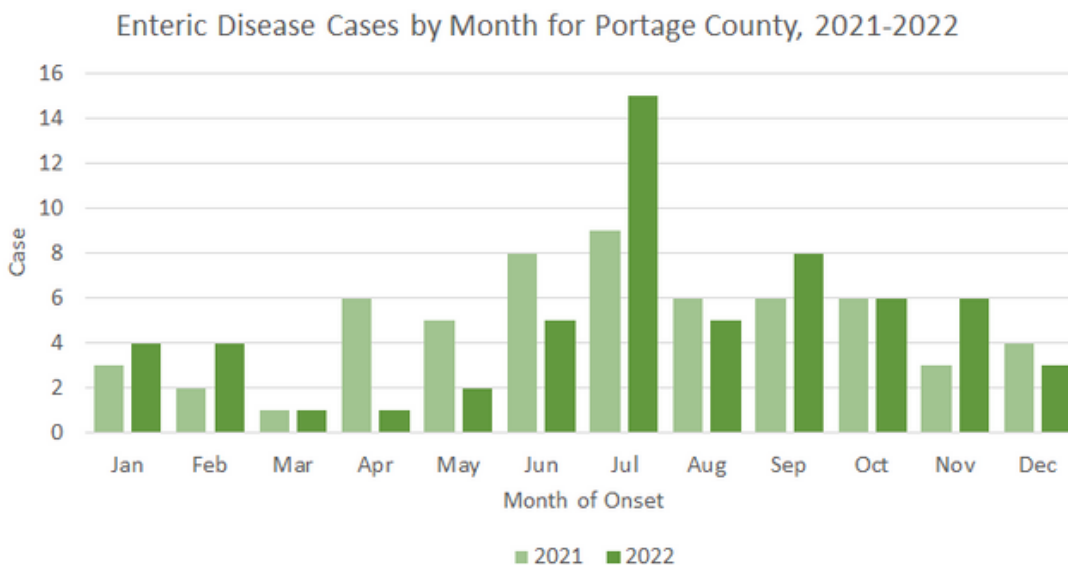
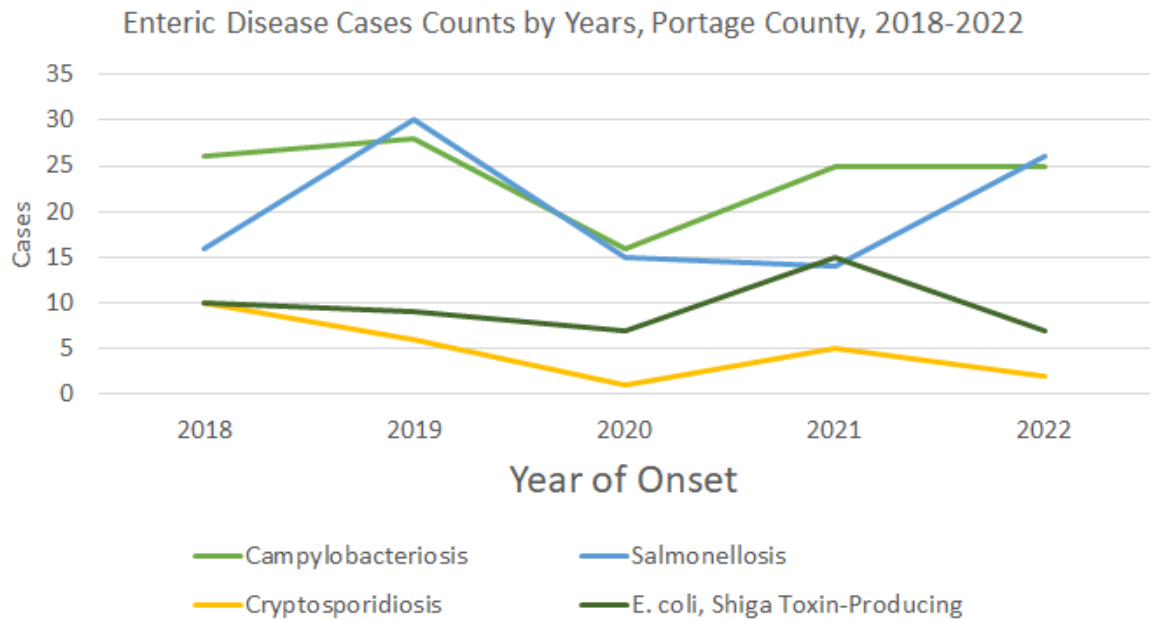
Four records did not have age.

The youngest chlamydia case was thirteen years of age and the gonococcal case was also thirteen years of age.

60 Years or Older

Reportable Condition	Rate
Influenza-associated hospitalization	181.8
Hepatitis C - chronic	67.4
Campylobacteriosis	23.0
Streptococcus pneumoniae	19.9
Salmonellosis	15.3
Total Reportable Condition**	399.8

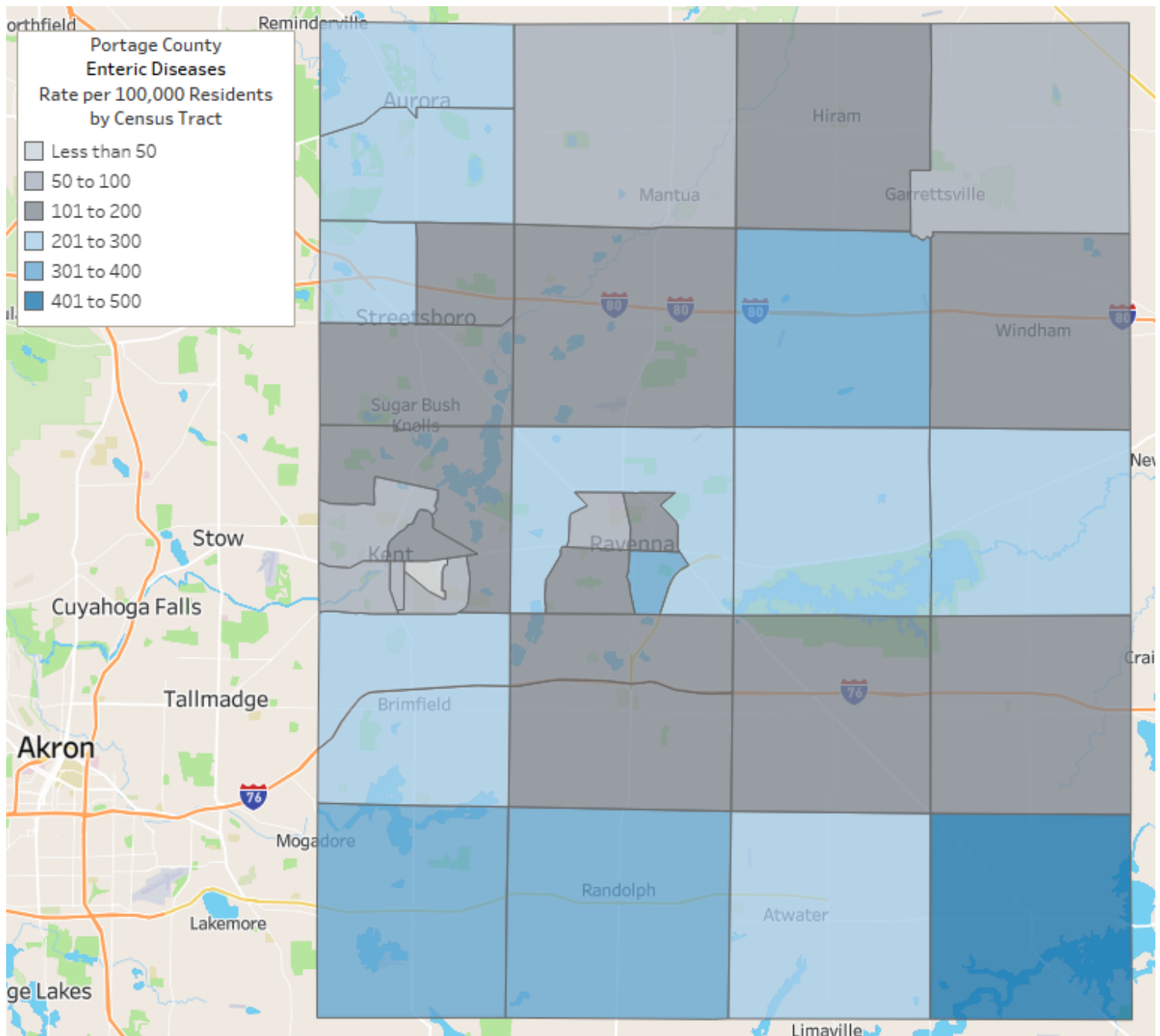
Enteric Disease Trends



The graph to the left shows the number of cases reported over two years by month for Campylobacteriosis, Cryptosporidiosis, E. coli, Shiga Toxin-Producing, Listeriosis, Salmonellosis, Shigellosis and Yersiniosis.

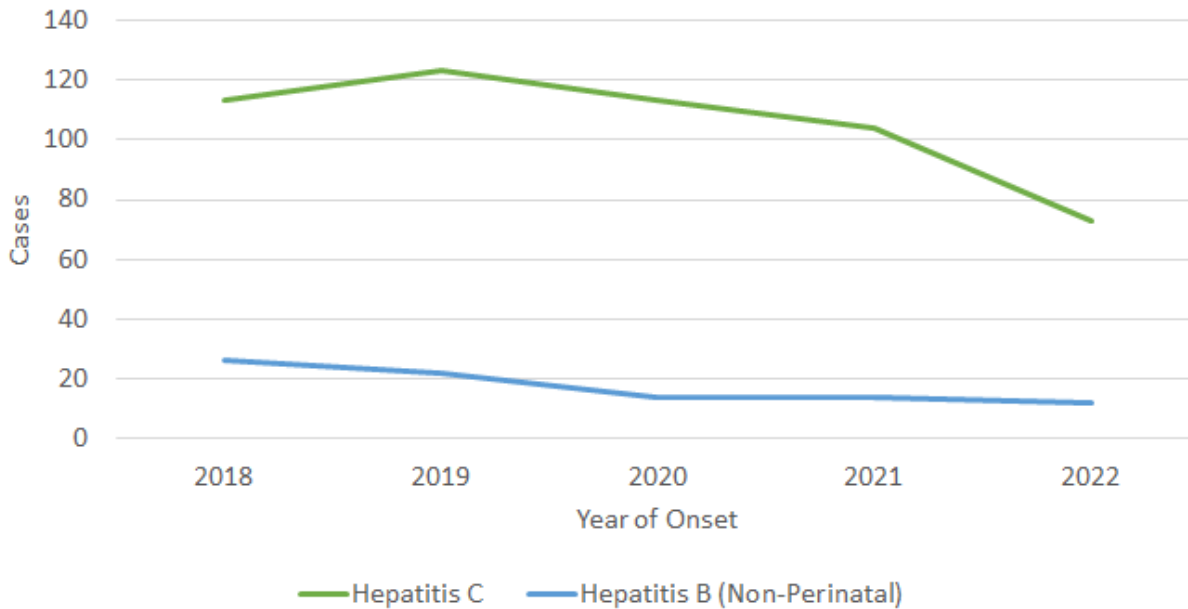
Enteric Disease Trends

Below is a map of Portage County's enteric disease rates by census tract over a five-year period. This graphic includes the top for most common enteric diseases. This includes Campylobacteriosis, Cryptosporidiosis, E. coli, Shiga Toxin-Producing, and Salmonellosis.

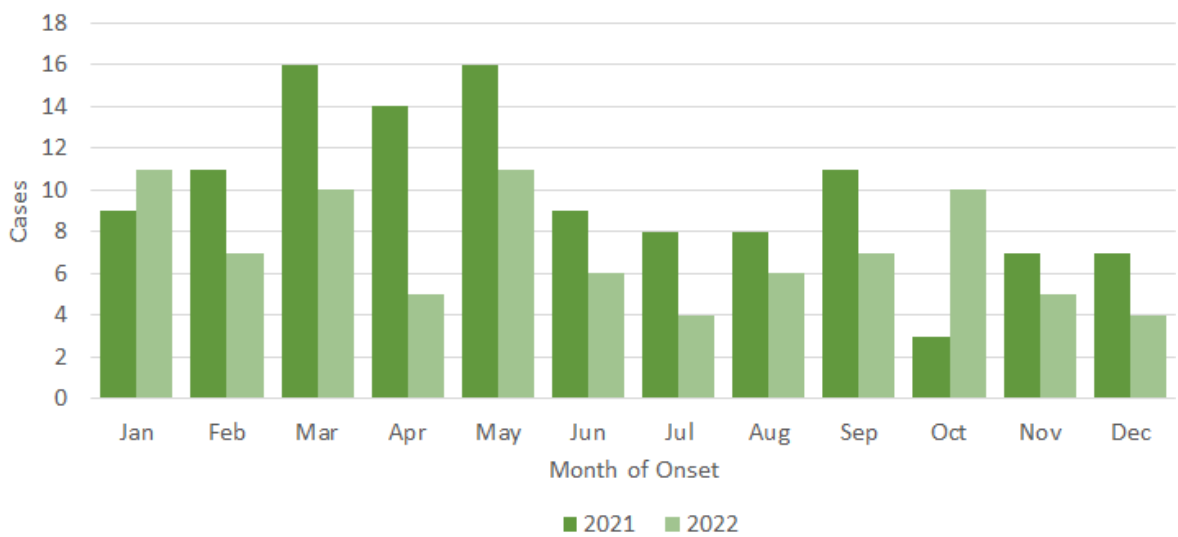


Hepatitis Trends

Hepatitis Case Counts by Year, Portage County, 2018-2022



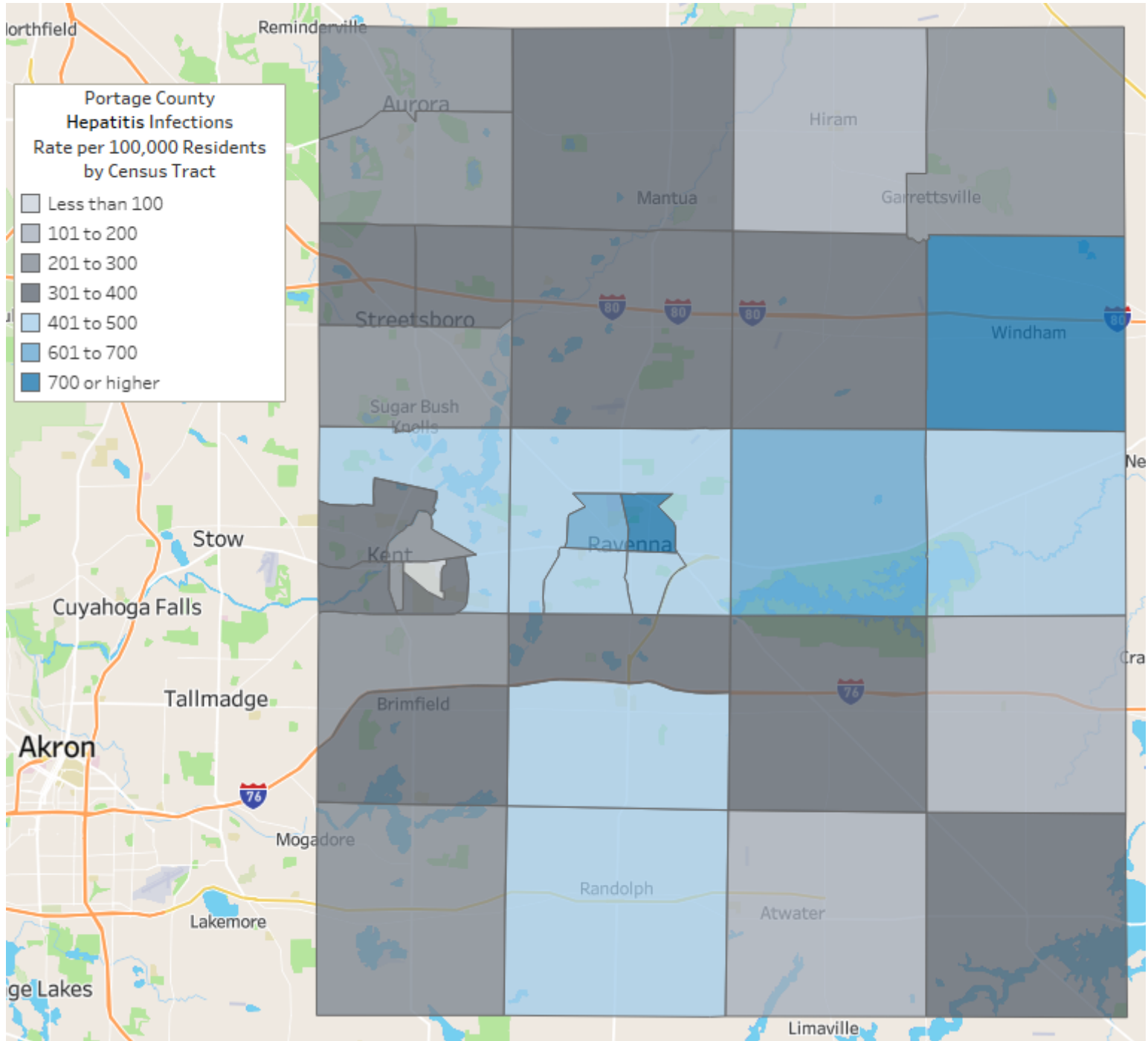
Hepatitis Disease Cases by Month for Portage County, 2021-2022



The graph to the right shows the number of cases reported over two years by month for Hepatitis A, B (chronic and acute) and C (chronic and acute).

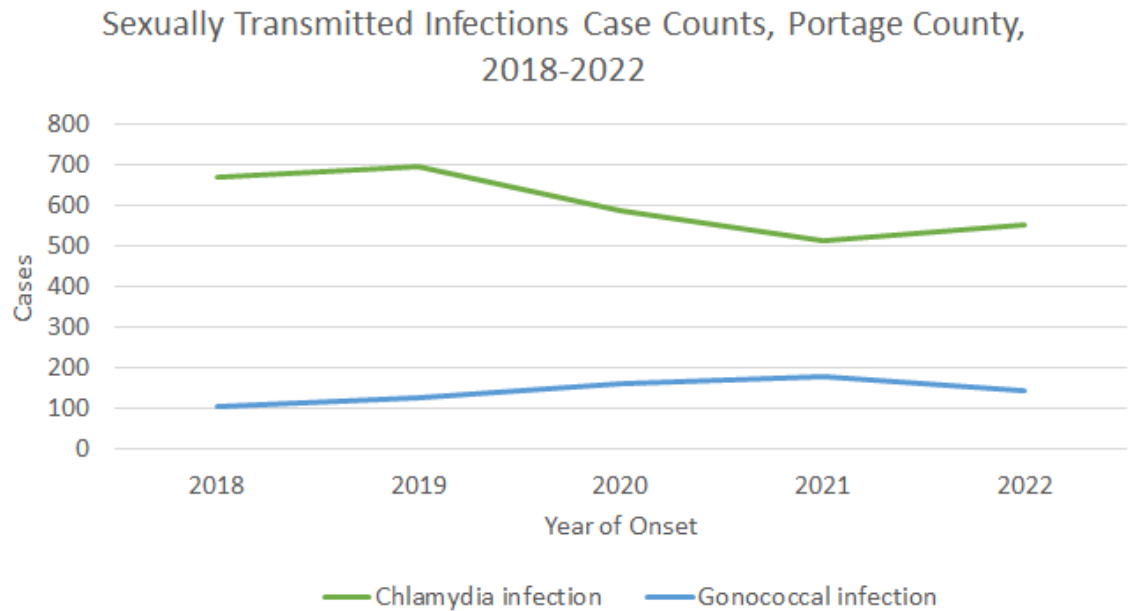
Hepatitis Trends

Below is a map of Portage County's hepatitis rates by census tract over a five-year period. This graphic includes hepatitis B acute/chronic infections and hepatitis C acute/chronic infections.

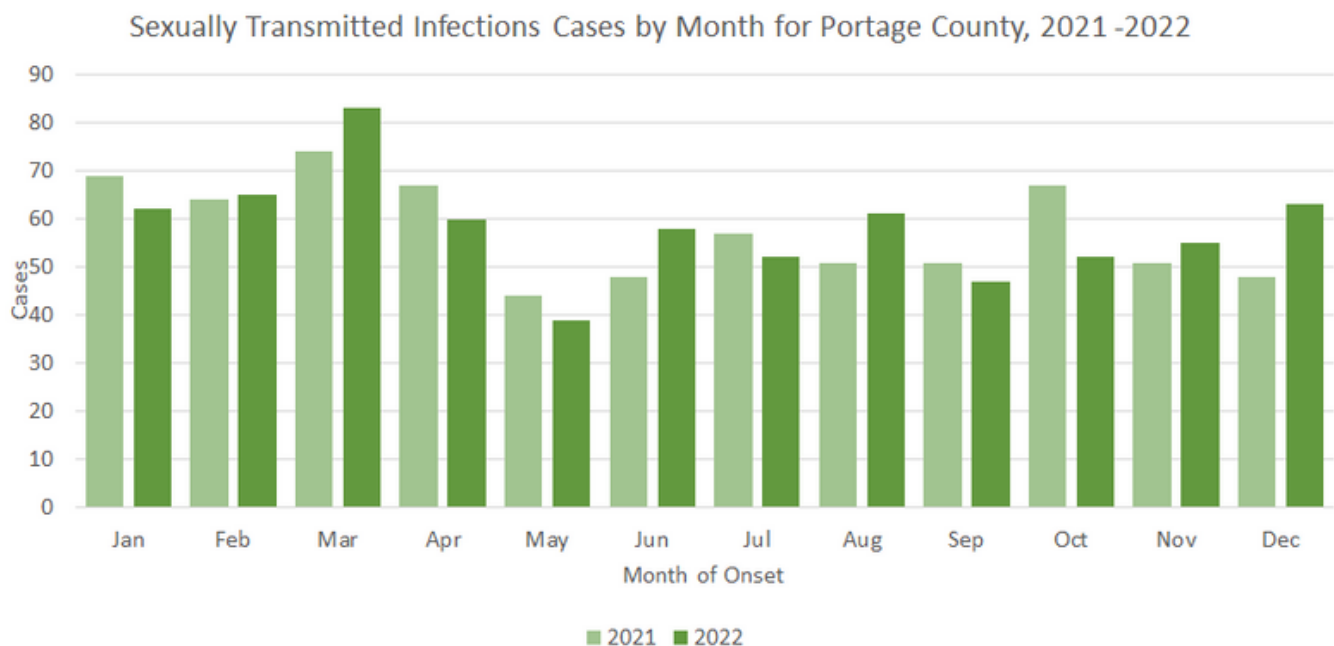


Sexually Transmitted Infections Trends

Gonococcal infections increased to counts slightly higher than in pre-covid times.

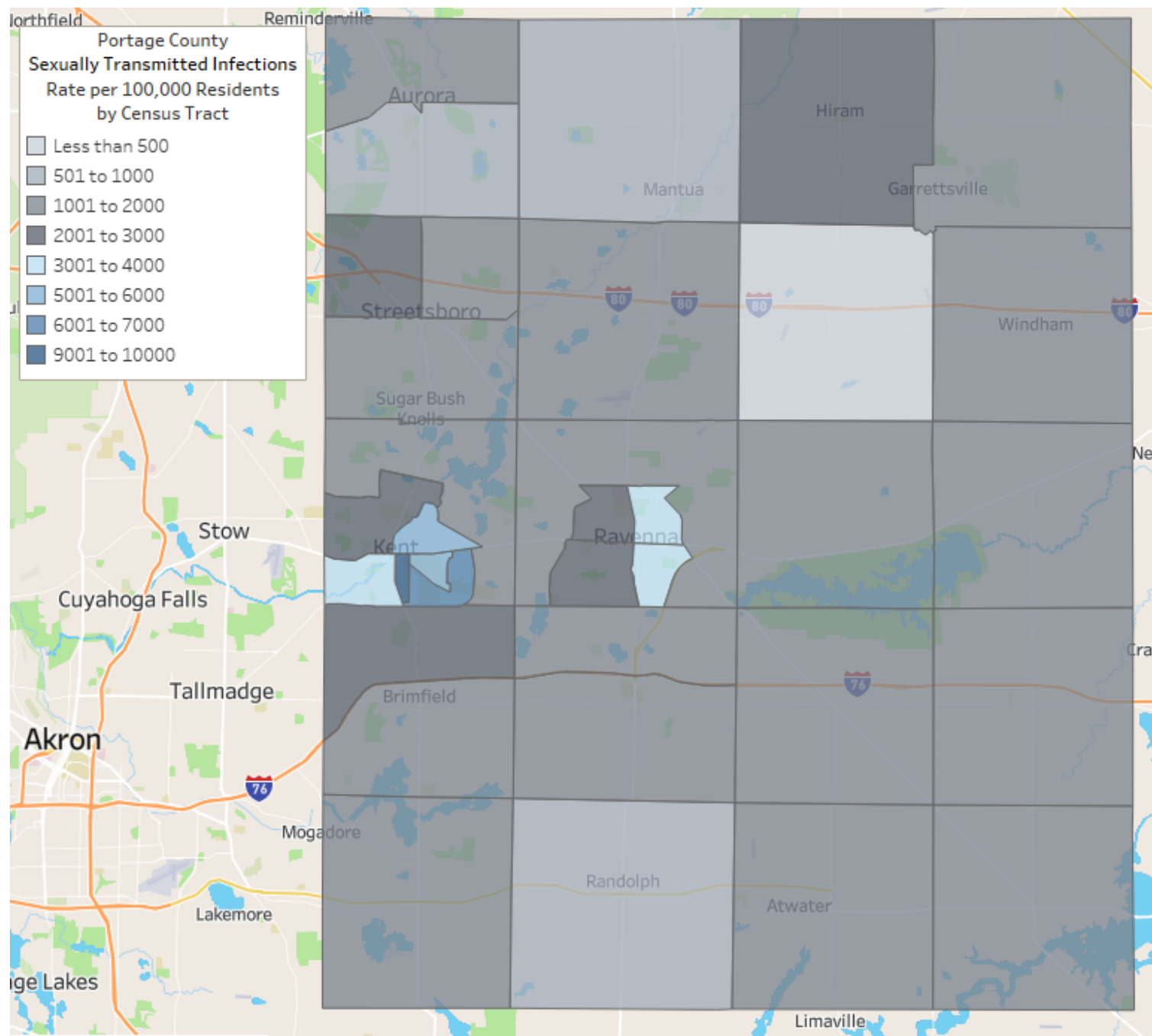


The graph below shows the number of cases reported by month for Chlamydia and Gonococcal infections in 2021 and 2022



Sexually Transmitted Infections Trends

Below is a map of Portage County's sexually transmitted infection rates by census tract over a five-year period. This graphic includes chlamydia infections and gonococcal infections.



Know Your ABCs: A Quick Guide to Reportable Infectious Diseases In Ohio

From the Ohio Administrative Code Chapter 3701-3; Effective August 1, 2019

Class A:

Diseases of major public health concern because of the severity of disease or potential for epidemic spread – report immediately via telephone upon recognition that a case, a suspected case, or a positive laboratory result exists.

- Anthrax
- Botulism, foodborne
- Cholera
- Diphtheria
- Influenza A – novel virus infection
- Measles
- Meningococcal disease
- Middle East Respiratory Syndrome (MERS)
- Plague
- Rabies, human
- Rubella (not congenital)
- Severe acute respiratory syndrome (SARS)
- Smallpox
- Tularemia
- Viral hemorrhagic fever (VHF), including Ebola virus disease, Lassa fever, Marburg hemorrhagic fever, and Crimean-Congo hemorrhagic fever

Any unexpected pattern of cases, suspected cases, deaths or increased incidence of any other disease of major public health concern, because of the severity of disease or potential for epidemic spread, which may indicate a newly recognized infectious agent, outbreak, epidemic, related public health hazard or act of bioterrorism.

Class B:

Disease of public health concern needing timely response because of potential for epidemic spread – report by the end of the next business day after the existence of a case, a suspected case, or a positive laboratory result is known.

- Amebiasis
- Arboviral neuroinvasive and non-neuroinvasive disease:
 - Chikungunya virus infection
 - Eastern equine encephalitis virus disease
 - LaCrosse virus disease (other California serogroup virus disease)
 - Powassan virus disease
 - St. Louis encephalitis virus disease
 - West Nile virus infection
 - Western equine encephalitis virus disease
 - Yellow fever
 - Zika virus infection
 - Other arthropod-borne diseases
- Babesiosis
- Botulism
 - Infant
 - wound
- Brucellosis
- Campylobacteriosis
- *Candida auris*
- Carbapenemase-producing carbapenem-resistant Enterobacteriaceae (CP-CRE)
 - CP-CRE *Enterobacter* spp.
 - CP-CRE *Escherichia coli*
 - CP-CRE *Klebsiella* spp.
 - CP-CRE other
- Chancroid
- *Chlamydia trachomatis* infections
- Coccidioidomycosis
- Creutzfeldt-Jakob disease (CJD)
- Cryptosporidiosis
- Cyclosporiasis
- Dengue
- *E. coli* O157:H7 and Shiga toxin-producing *E. coli* (STEC)
- Ehrlichiosis/anaplasmosis
- Giardiasis
- Gonorrhea (*Neisseria gonorrhoeae*)
- *Haemophilus influenzae* (invasive disease)
- Hantavirus
- Hemolytic uremic syndrome (HUS)
- Hepatitis A
- Hepatitis B (non-perinatal)
- Hepatitis B (perinatal)
- Hepatitis C (non-perinatal)
- Hepatitis C (perinatal)
- Hepatitis D (delta hepatitis)
- Hepatitis E
- Influenza-associated hospitalization
- Influenza-associated pediatric mortality
- Legionnaires' disease
- Leprosy (Hansen disease)
- Leptospirosis
- Listeriosis
- Lyme disease
- Malaria
- Meningitis:
 - Aseptic (viral)
 - Bacterial
- Mumps
- Pertussis
- Poliomyelitis (including vaccine-associated cases)
- Psittacosis
- Q fever
- Rubella (congenital)
- *Salmonella* Paratyphi infection
- *Salmonella* Typhi infection (typhoid fever)
- Salmonellosis
- Shigellosis
- Spotted Fever Rickettsiosis, including Rocky Mountain spotted fever (RMSF)
- *Staphylococcus aureus*, with resistance or intermediate resistance to vancomycin (VRSA, VISA)
- Streptococcal disease, group A, invasive (IGAS)
- Streptococcal disease, group B, in newborn
- Streptococcal toxic shock syndrome (STSS)
- *Streptococcus pneumoniae*, invasive disease (ISP)
- Syphilis
- Tetanus
- Toxic shock syndrome (TSS)
- Trichinellosis
- Tuberculosis (TB), including multi-drug resistant tuberculosis (MDR-TB)
- Varicella
- Vibriosis
- Yersiniosis

Class C:

Report an outbreak, unusual incident or epidemic of other diseases (e.g. histoplasmosis, pediculosis, scabies, staphylococcal infections) by the end of the next business day.

Outbreaks:

- Community
- Foodborne
- Healthcare-associated
- Institutional
- Waterborne
- Zoonotic

NOTE:

Cases of AIDS (acquired immune deficiency syndrome), AIDS-related conditions, HIV (human immunodeficiency virus) infection, perinatal exposure to HIV, all CD4 T-lymphocyte counts and all tests used to diagnose HIV must be reported on forms and in a manner prescribed by the Director.

References

1. Ohio Laws & Administrative Rules; Ohio Administrative Code, Chapter 3701-3, Communicable Disease: <https://codes.ohio.gov/ohio-administrative-code/rule-3701-3-02>
2. Ohio Department of Health “Ohio Disease Reporting System.” <https://odh.ohio.gov/know-our-programs/ohio-disease-reporting-system>
3. Ohio Department of Health; Infectious Disease Control Manual (IDCM); Section 3; <https://odh.ohio.gov/know-our-programs/infectious-disease-control-manual/infectious-disease-control-manual>
4. Center for Disease and Prevention; National Notifiable Diseases Surveillance System (NNDSS), Case Definition; <https://www.cdc.gov/nndss/>
5. United States Census Bureau 2019 and 2021 “American Community Survey Demographic and Housing Estimates” <https://data.census.gov/cedsci/table?g=05000000US39133%241400000&tid=ACSDP5Y2019.DP05>