MONKEYPOX & COVID-19 UPDATES: CURRENT STATE IN MILWAUKEE

City of Milwaukee Health Department (MHD)
Updates to Public Safety & Health Committee

July 21, 2022

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HEALTH DEPARTMENT

LIVING YOUR BEST LIFE.

MONKEYPOX

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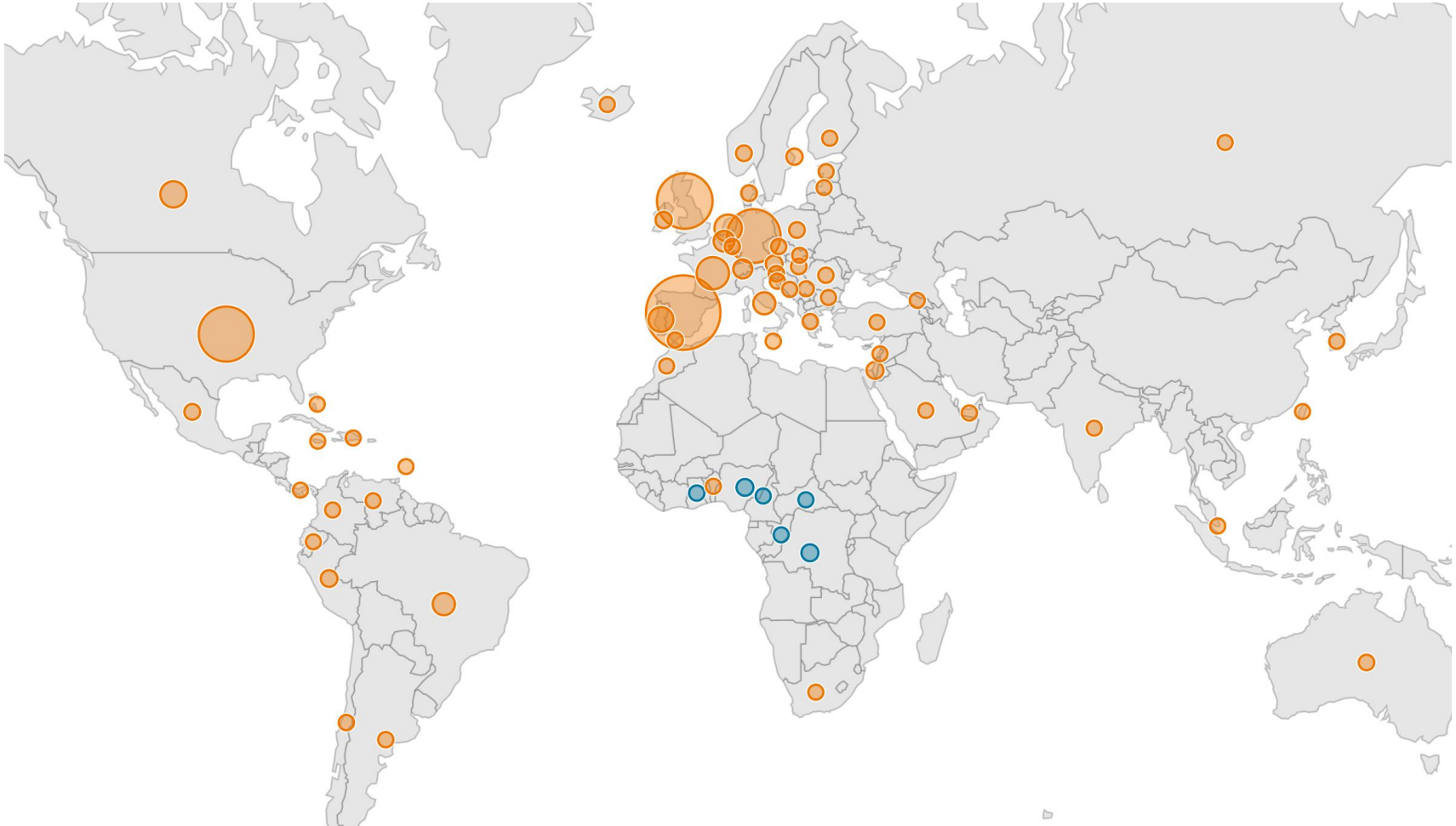
BACKGROUND

- Monkeypox is caused by a virus of the *orthopoxvirus* genus and is endemic in several countries in Central and West Africa.
- The current outbreak, which features cases in multiple non-endemic countries that are not linked to travel or animal contact, is atypical and concerning.
- Monkeypox is rare and does not spread easily between people without close contact. The threat of monkeypox to the general U.S. population remains **LOW**.

GLOBAL OUTBREAK MAP



May 7, 2022:

- World Health Organization (WHO) aware of increasing cases

June 22, 2022:

- World Health Network declares MPX pandemic
- WHO convenes IHR Emergency Committee

As of July 20, 2022:

- 14,511 cases worldwide
- 14K+ in non-endemic countries
- 70 total countries
  - Spain
  - United Kingdom
  - United States
  - Germany

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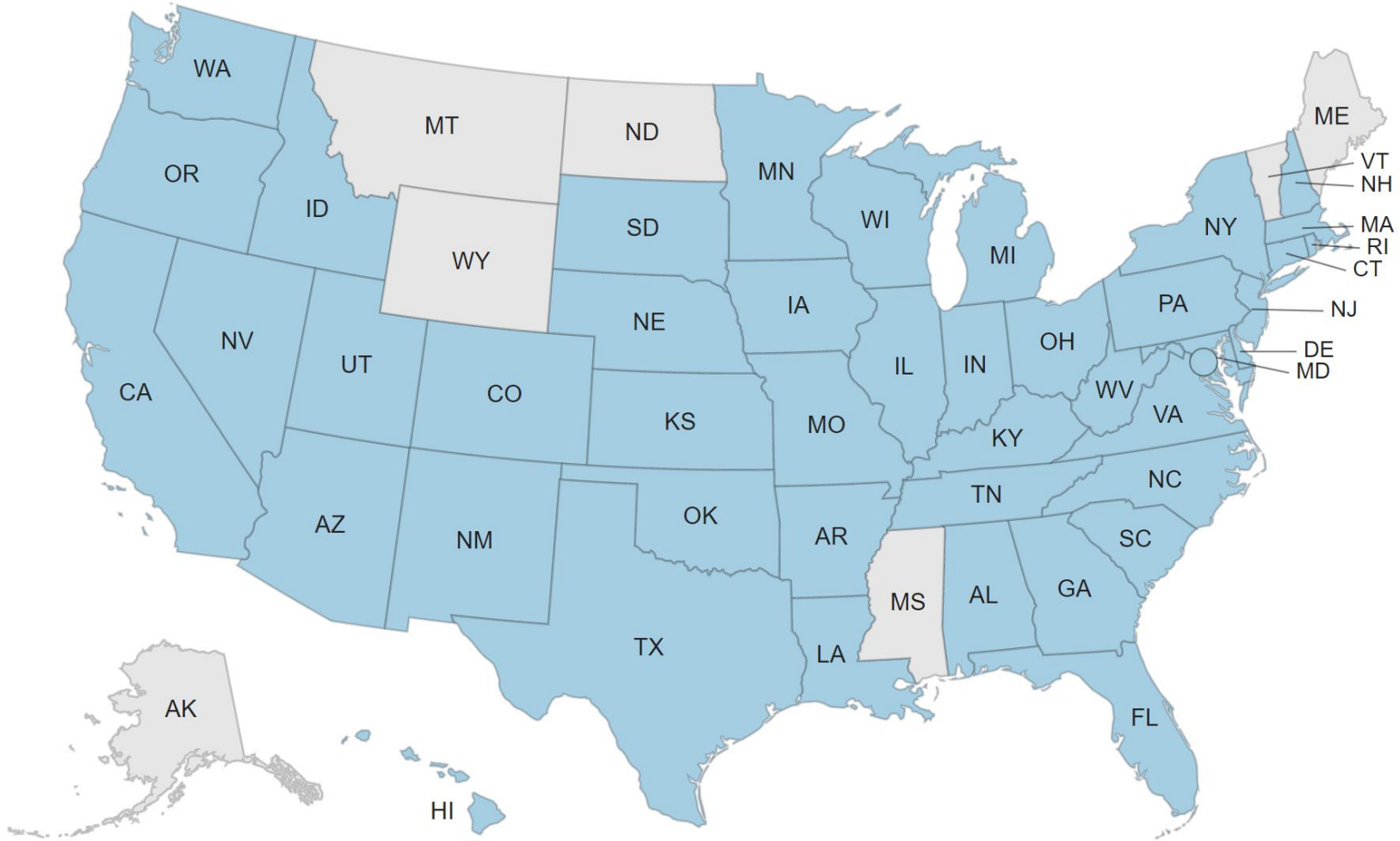
U.S. OUTBREAK MAP



As of 7/19/2022:

- 2,108 cases in the U.S.
- 6 cases in Wisconsin

SYMPTOMS & TRANSMISSION

- **Self-limited illness**, more severe in some
- Current outbreak **atypical** symptoms
  - No prodrome
  - Mucosal rash without spread
- Transmission of monkeypox predominately occurs through direct or indirect contact with:
  - body fluids or lesions
  - contaminated materials such as clothing or bedding
  - respiratory droplets
    - Transmission via respiratory droplets requires prolonged close interaction with a symptomatic person.

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PREVENTION

- The CDC recommends the following steps to prevent getting monkeypox:
  - Avoid close, skin to skin contact with the monkeypox rash.
    - Do not touch the rash or scabs of person with monkeypox.
    - Do not kiss, hug, cuddle or have intimate contact with someone with monkeypox.
    - Do not share eating utensils or cups.
  - Do not handle or touch the bedding, towels, or clothing of a sick person.
  - Wash your hands often with soap and water or use an alcohol-based hand sanitizer, especially after contact with sick people.

VACCINATION

- Two vaccines are licensed by the U.S. FDA for preventing monkeypox
  - ACAM2000
  - JYNNEOS – limited supply
- The CDC **does not recommend** widespread vaccination against monkeypox at this time.
- Vaccination may be recommended for some people who:
  - Are close personal contacts of people with monkeypox
  - May have been exposed to the virus
  - May have increased risk of being exposed to the virus, such as people who perform laboratory testing to diagnose monkeypox

SITUATIONAL UPDATE

- MHD is following the first cases of Monkeypox in City of Milwaukee residents
- 2nd case identified in Wisconsin
- Following public health guidelines, contact tracing, coordinating with local clinicians
- Chicago ~200 cases
  - Close-knit social networks, 1º gay, bisexual, MSM
- Increased testing capacity, messaging, vaccination
- Monkeypox (milwaukee.gov)

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COVID-19

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KEY METRICS

Key Indicator Statuses
Updated on Tuesdays & Thursdays

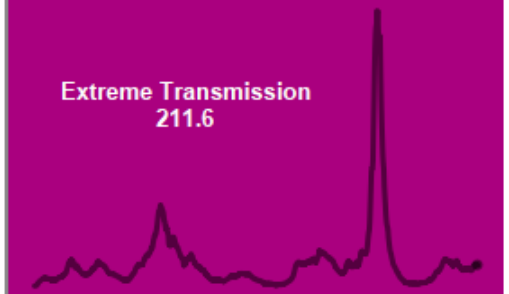
Return to Overview

Rate of COVID-19 cases per 100,000 over 7 days

Total number of new cases in the City of Milwaukee in the last 7 days divided by the City of Milwaukee population and multiplying by 100,000. Population data is based on US Census, 2019.

Blue (Low Transmission): 0-9
Yellow (Moderate Transmission): 10-49
Orange (Substantial Transmission): 50-99
Red (High Transmission): 100-149
Purple (Extreme Transmission) ≥ 150

Extreme Transmission
211.6



Percentage test positivity over previous 7 days

Total number of positive PCR tests divided by the total number of positive and negative PCR tests for City of Milwaukee residents during the last 7 days.

Blue (Low Transmission): <5%
Yellow (Moderate Transmission): 5.0% - 7.9%
Orange (Substantial Transmission): 8.0% - 9.9%
Red (High Transmission): 10.0% - 11.9%
Purple (Extreme Transmission): ≥ 12%

Extreme Transmission
15.4%

City of Milwaukee Adult Vaccination Rate

Total number of adult City of Milwaukee residents who have completed their COVID-19 vaccination series divided by the adult population of the City of Milwaukee. Adult is defined as an individual who is 16 years of age or older. Population data is based on U.S. Census, 2019.

65.1%

CDC Community Levels

The CDC has updated the thresholds and metrics used in assessing a community's COVID-19 levels. The new levels are determined based on new COVID-19 hospital admissions in the past 7 days, percent of staffed inpatients beds occupied by COIVD-19 patients, and total new COVID-19 cases in the past 7 days. The CDC updates these calculations weekly on Thursdays. We will update community level calculations on Fridays.

More information on the measures, thresholds, and individual factors for Milwaukee County can be found at: https://www.cdc.gov/coronavirus/2019-ncov/science/community-levels.html

HIGH COVID-19 COMMUNITY LEVEL

You should:

- Wear a mask indoors in public
- Stay up to date with COVID-19 vaccines
- Get tested if you have symptoms
- Take additional precautions as needed, if you're at **high risk for severe illness**

***Metrics exclude last 3 days of data due to delays in reporting.**

KEY METRICS – CDC COMMUNITY LEVEL

High

In **Milwaukee County, Wisconsin**, community level is **High**.

- Wear a mask indoors in public
- Stay up to date with COVID-19 vaccines
- Get tested if you have symptoms
- Additional precautions may be needed for people at high risk for severe illness

Moving Milwaukee Forward Safely

Gating Metric Review May 19-July 19

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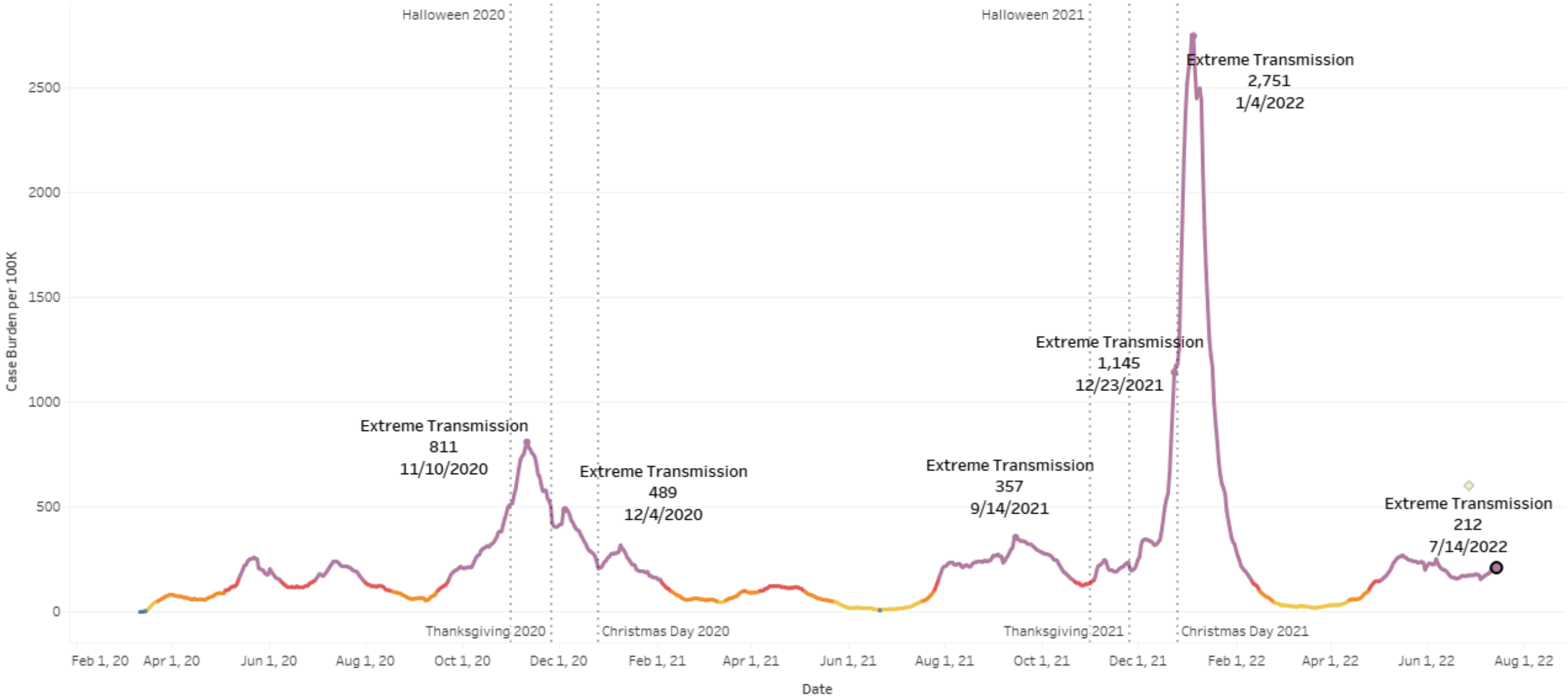
Metric	Status – May 19	Status – May 26	Status – Jun. 01	Status – Jun. 09	Status – Jun. 16	Status – Jun. 23	Status – Jun. 30	Status – July.7	Status – July.14	Status – July.19
	This metric determines current disease burden. Increased burden increases rates of transmission									
Rate of COVID-19 cases per 100,000 over 7 days	Purple Extreme Transmission 270.9	Purple Extreme Transmission 239.1	Purple Extreme Transmission 233.8	Purple Extreme Transmission 251.8	Purple Extreme Transmission 198.3	Purple Extreme Transmission 160.8	Purple Extreme Transmission 171.3	Purple Extreme Transmission 177.4	Purple Extreme Transmission 212.7	Purple Extreme Transmission 211.6
	This metric determines percent positivity. Percent positivity indicates test availability and transmission trends									
Percentage test positivity over 7 days	Purple Extreme Transmission 13.3%	Purple Extreme Transmission 12.8%	Purple Extreme Transmission 13.4%	Purple Extreme Transmission 14.1%	Purple Extreme Transmission 13.0%	Purple Extreme Transmission 12.0%	Purple Extreme Transmission 12.6%	Purple Extreme Transmission 13.9%	Purple Extreme Transmission 15.2%	Purple Extreme Transmission 15.4%
	Vaccination rate is calculated based on the City of Milwaukee's adult population (individuals 16 or older)									
City Adult Vaccination Rate	64.6%	64.7%	64.8%	64.8%	64.9%	65.0%	65.0%	65.0%	65.1%	65.1%

Data Source: Wisconsin Immunization Registry (WIR) and Wisconsin Electronic Disease Surveillance System (WEDSS)

The metrics used to determine re-opening phases was updated on 3/18/2021 based on CDC guidance (https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/indicators.html) and best practices for Milwaukee

CURRENT CASE BURDEN



*Metric excludes last 4 days to account for delays in reporting and allow trends to stabilize.
Data Source: Wisconsin Electronic Disease Surveillance System (WEDSS) via DHS
Last Updated: 7/19/2022 2:23:17 PM

COVID-19 Wastewater Surveillance in Wisconsin

Date Updated: 7/15/2022

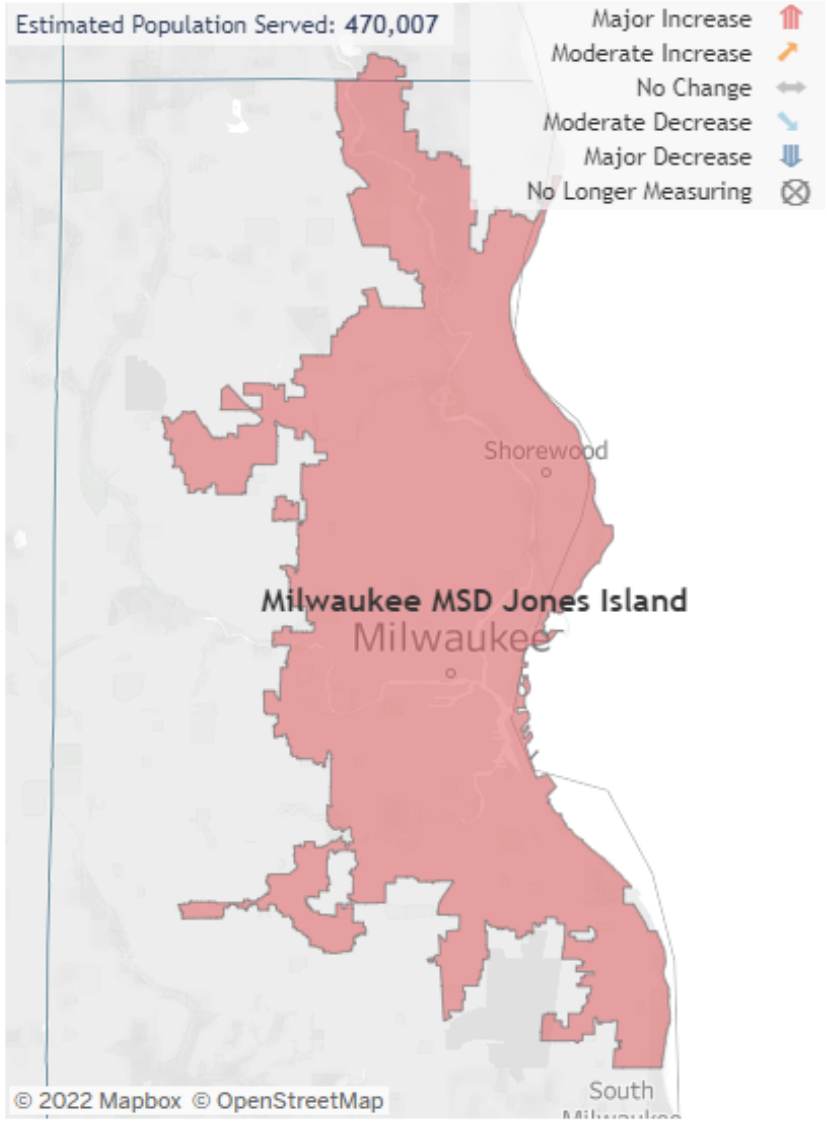
Click on the list or map to select a sewershed. Click again to deselect.

Milwaukee MSD Jones Island

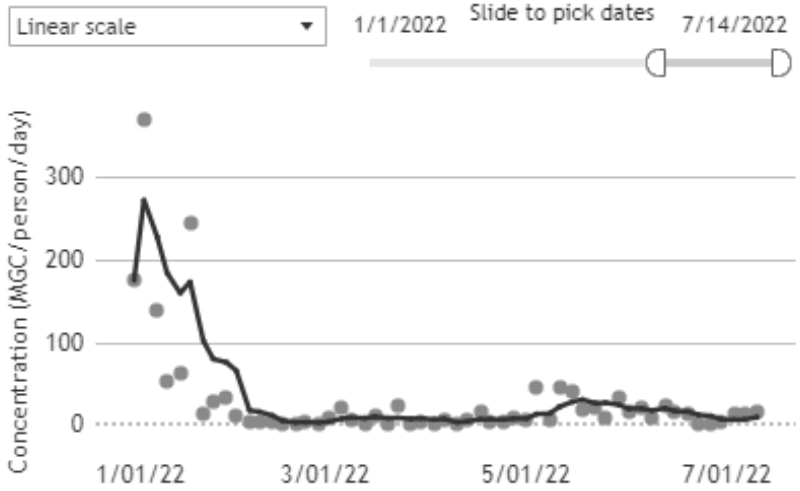
SARS-CoV-2 Concentration: **Major Increase** from 6/26/22 to 7/10/22

COVID-19 Case Trajectory: **No Significant Change** from 6/30/22 to 7/15/22

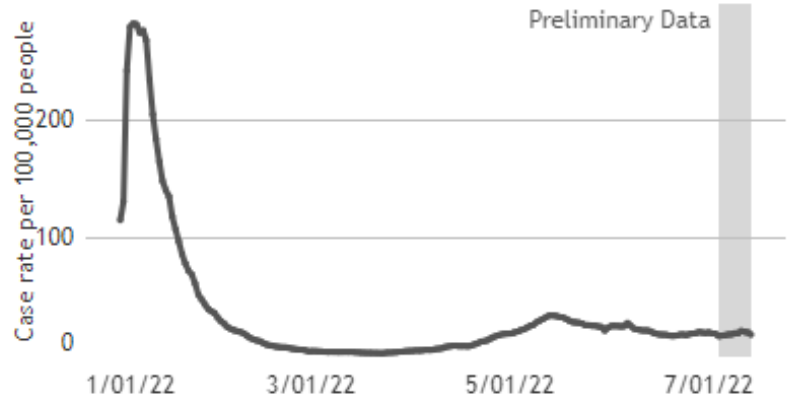
- Columbus WWTF
- De Pere WWTF
- Eau Claire WWTF
- Fox River WPCC
- Green Bay MSD
- Hartford WPCF
- Hayward WPCF
- Hudson WWTF
- Janesville WW Utility
- Kenosha WWTF
- La Crosse WWTP
- Lodi WWTF
- Madison MSD WWTF
- Manitowoc WWTF
- Marinette Wastewa..
- Marshfield WWTF
- Mauston WWTF
- Menomonie WWTF
- Merrill WWTP
- Milwaukee MSD Jon..
- Milwaukee MSD Sou..
- Monroe WWTF
- Oconomowoc WWTP
- Oregon WWTF
- Oshkosh WWTP
- Peshtigo WWTF
- Platteville WWTF



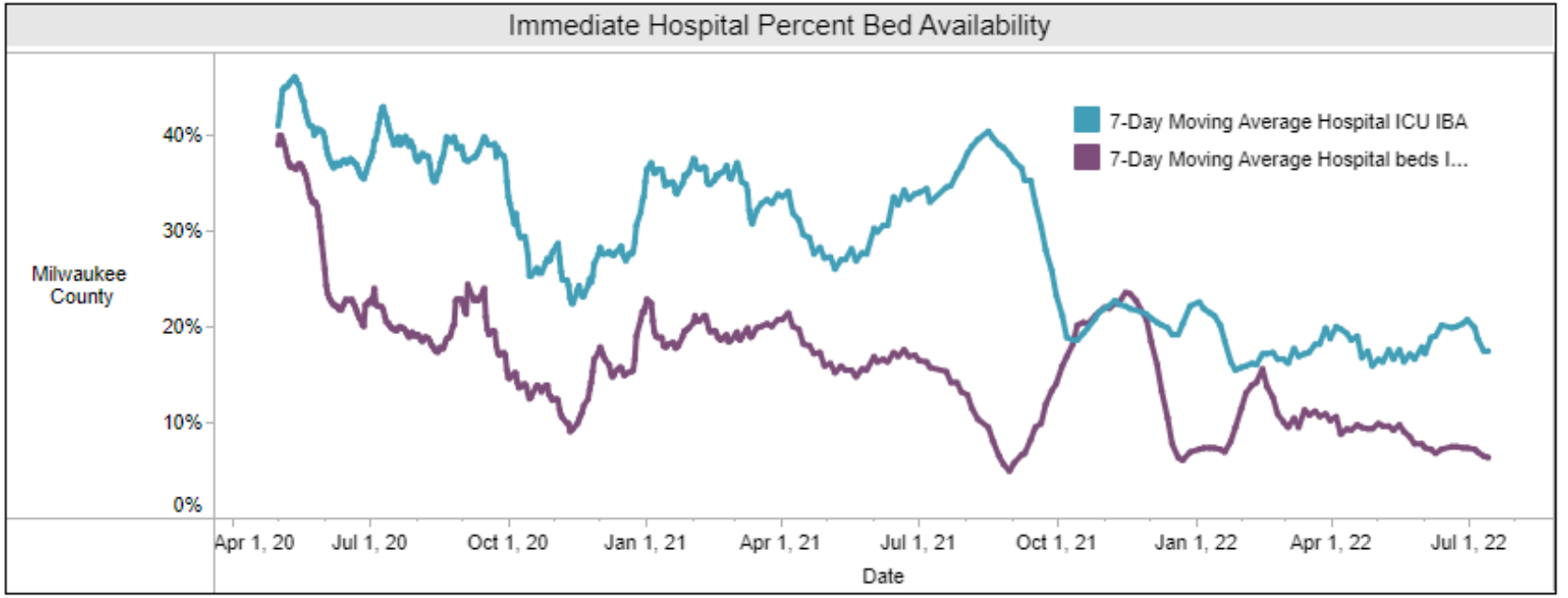
Wastewater Concentration of SARS-CoV-2 in Milwaukee MSD Jones Island

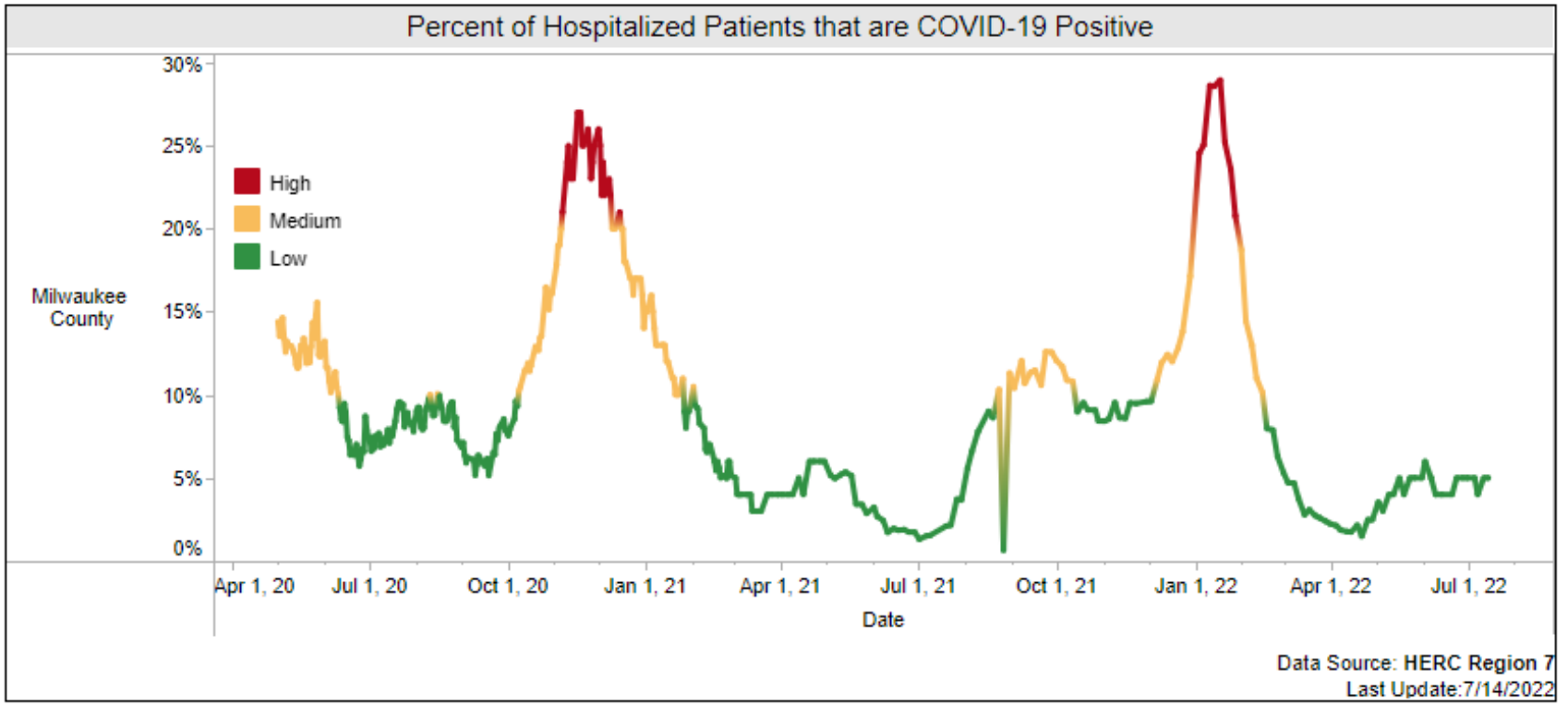


7-day Average Case Rate of COVID-19 within Milwaukee MSD Jones Island Sewershed



HOSPITALIZATIONS





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VARIANTS IN WI

- Omicron is 100% of cases, subvariants of BA.4 and BA.5 are continuing to increase

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Wisconsin SARS-CoV-2 (hCoV-19) Genomic Dashboard

enabled by data from GISAID

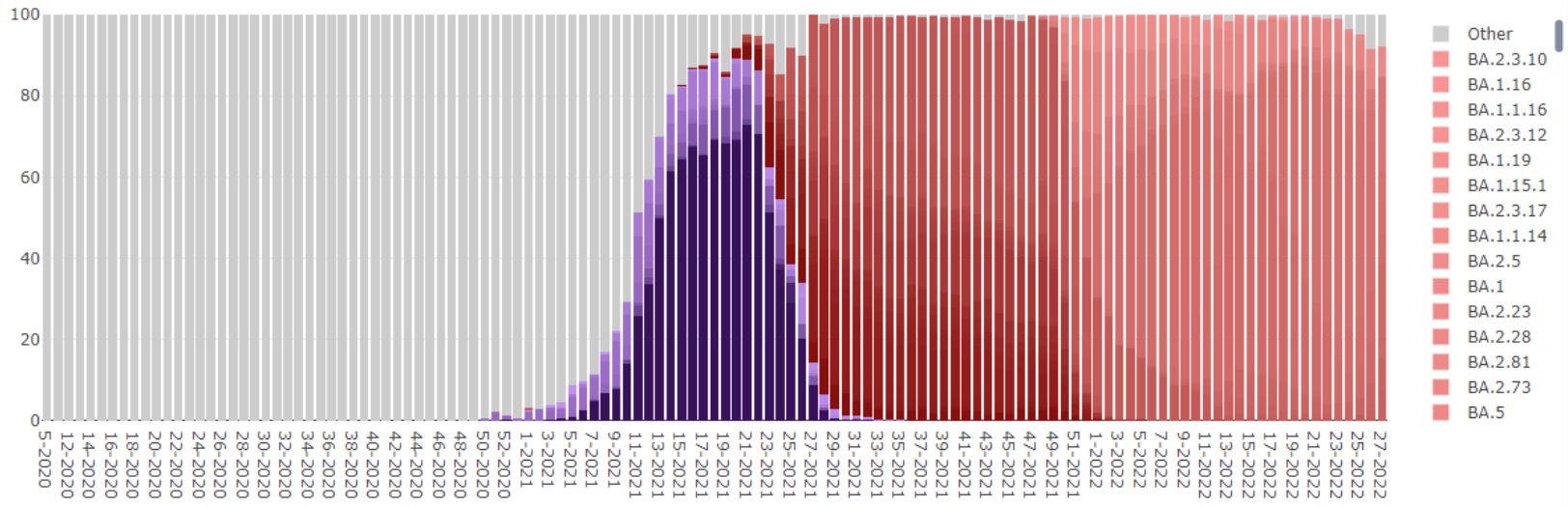
Sequencing Report | Variant Report | Geographical Report | About the Data

Delta
Last 30 Days: **0**
Total: **27870**
B.1.617.2, All AY

Omicron
Last 30 Days: **542**
Total: **19206**
B.1.1.529, All BA

Data Updated:
2022-07-19

Proportion of Variants | Variants of Concern | Variants Being Monitored | Search Variants



Proportion of sequenced strains that are variants of concern (red) and variants being monitored (purple), over time by sample collection date.

Time Period
Weekly

Variant Label
Pangolin

COVID-19 VACCINATION

- 65.1% of adults (16+) fully vaccinated
- 55.2% of total residents fully vaccinated
- 49.9% of total residents fully vaccinated and boosted

VACCINATION DEMOGRAPHICS

Highest % coverage:

- Asian/PI
- American Indian/ Alaskan Native
- Oldest Ages

Lowest % coverage:

- Black/AA
- Children <12

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Vaccinated City of Milwaukee Residents By Race/Ethnicity

Race/Ethnicity	2019 ACS Population Estimate	At Least 1 Dose	Percent Population	Fully Vaccinated	Race/Ethnicity Percent Population Fully Vaxxed	Boosted Individuals	Percent of Fully Vaxxed w Booster
Black or African-American	227,829	107,134	47.0%	96,564	42.4%	42,269	43.8%
Hispanic or Latino	112,817	69,277	61.4%	63,159	56.0%	25,258	40.0%
Other Race	17,258	13,982	81.0%	12,729	73.8%	5,209	40.9%
American Indian or Alaska Native	2,763	2,160	78.2%	1,988	72.0%	960	48.3%
White	208,521	127,682	61.2%	121,782	58.4%	77,313	63.5%
Asian or Pacific Islander	25,360	20,633	81.4%	18,979	74.8%	7,743	40.8%
Unknown		12,737		10,567		3,800	36.0%
Grand Total	594,548	353,605		325,768		162,552	49.9%

Vaccinated City of Milwaukee Residents By Age Group

	2019 ACS Population Estimate	At Least 1 Dose	Age Percent of Population with 1 or more doses	Fully Vaccinated	Age Percent of Population fully vaxxed	Boosted Individuals	Percent of Fully Vaxxed w Booster
5 to 11 years	61,519	15,606	25.4%	12,988	21.1%	119	0.9%
12 to 15 years	32,878	17,489	53.2%	15,737	47.9%	4,339	27.6%
16 to 19 years	36,222	18,597	51.3%	16,570	45.7%	5,110	30.8%
20 to 24 years	50,576	29,929	59.2%	26,502	52.4%	9,062	34.2%
25 to 34 years	101,565	64,190	63.2%	57,970	57.1%	24,039	41.5%
35 to 44 years	74,841	53,452	71.4%	49,311	65.9%	23,070	46.8%
45 to 54 years	66,835	48,641	72.8%	45,536	68.1%	24,416	53.6%
55 to 59 years	34,030	25,134	73.9%	23,838	70.0%	14,545	61.0%
60 to 64 years	29,689	24,754	83.4%	23,629	79.6%	16,188	68.5%
65 to 74 years	37,530	36,005	95.9%	34,708	92.5%	27,000	77.8%
75 to 84 years	16,494	13,998	84.9%	13,476	81.7%	10,599	78.7%
85 years and over	8,304	5,787	69.7%	5,481	66.0%	4,063	74.1%
Grand Total	594,548	353,605		325,768		162,552	49.9%

Last updated: 7/19/2022

CDC UPDATES

VACCINES

COVID-19 Vaccination Recommendations for Children

CDC recommends COVID-19 vaccines for everyone ages 6 months and older, and boosters for everyone ages 5 years and older if eligible.

COVID-19 vaccines available for children include:

Pfizer-BioNTech COVID-19 Vaccine

- Children ages 6 months–4 years: Should receive a 3-dose primary series. The first and second doses are separated by 3–8 weeks and the second and third doses are separated by at least 8 weeks. Currently, a booster dose is not authorized for this age group.

Moderna COVID-19 Vaccine

- Children ages 6 months–5 years: Should receive a 2-dose primary series separated by 4–8 weeks. Currently, a booster dose is not authorized for children in this age group who receive a Moderna primary series.

[COVID-19 Vaccination for Children| CDC]

CDC UPDATES

VACCINES

- Novavax approval
- Pfizer now licensed for 12+
- Get up-to-date now

CURRENT MASK GUIDANCE

- In general, people do not need to wear masks when outdoors. Wear a mask if you are sick and need to be around others or are caring for someone who has COVID-19.
- If the COVID-19 Community Level where you live is
  - Low
    - Wear a mask based on your personal preference, informed by your personal level of risk.
  - Medium
    - If you are at risk for severe illness, talk to your healthcare provider about wearing masks indoors in public.
    - If you live with or will gather with someone at risk for severe illness, wear a mask when indoors with them.
  - High
    - If you are 2 or older, wear a well-fitting mask indoors in public, regardless of vaccination status or individual risk (including in K-12 schools and other community settings).

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Centers for Disease Control and Prevention. Omicron Variant: What You Need to Know. Published January 21, 2022. Accessed June 8, 2022. https://www.cdc.gov/coronavirus/2019-ncov/variants/omicron-variant.html

QUESTIONS?

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