

# Milwaukee Respiratory Virus Surveillance Update

## MMWR Week 14, Ending April 08, 2023

### Contents

Overview . . . . .	2
Statewide and Regional Influenza Activity . . . . .	3
Respiratory Virus Laboratory Surveillance . . . . .	3
Milwaukee County Influenza Activity . . . . .	4
Influenza Testing Data . . . . .	5
National Influenza Activity . . . . .	5
Global Influenza Activity . . . . .	6
COVID-19 Activity . . . . .	7
SARS-CoV-2 Wastewater Surveillance . . . . .	8

## Overview

### County

- There were 2 influenza-associated hospitalization reported in Milwaukee County during the week ending in April 08, 2023. From October 1, 2022 through April 08, 2023, there have been 640 reported influenza-associated hospitalizations in Milwaukee County (466 City of Milwaukee residents).

### State

- Influenza-like illness (ILI) levels continued to remain below baseline both statewide and in the southeastern region of the state.
- Outpatient ILI activity continues to decline in Wisconsin. The percent positive influenza lab tests increased slightly from the week prior (0.8% to 1.4%).
- Human metapneumovirus is the predominant virus for this week.

### National

- 3 states/jurisdictions experienced moderate ILI activity and 2 experienced high ILI activity. Wisconsin had minimal ILI activity in outpatient visits.
- 2 influenza-associated pediatric deaths were reported during this week.
- Both influenza A(H1N1) and influenza B were the most frequently reported viruses this week.

**Influenza Vaccine Composition 2022-2023 Influenza Season** All standard-dose flu shots will be quadrivalent (no trivalent standard-dose flu shots will be available this season). The quadrivalent vaccines for use in the 2022-2023 influenza season contain the following:

- an A/Victoria/2570/2019 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021-like virus (B/Victoria lineage); and
- a B/Phuket/3073/2013-like virus (B/Yamagata lineage)

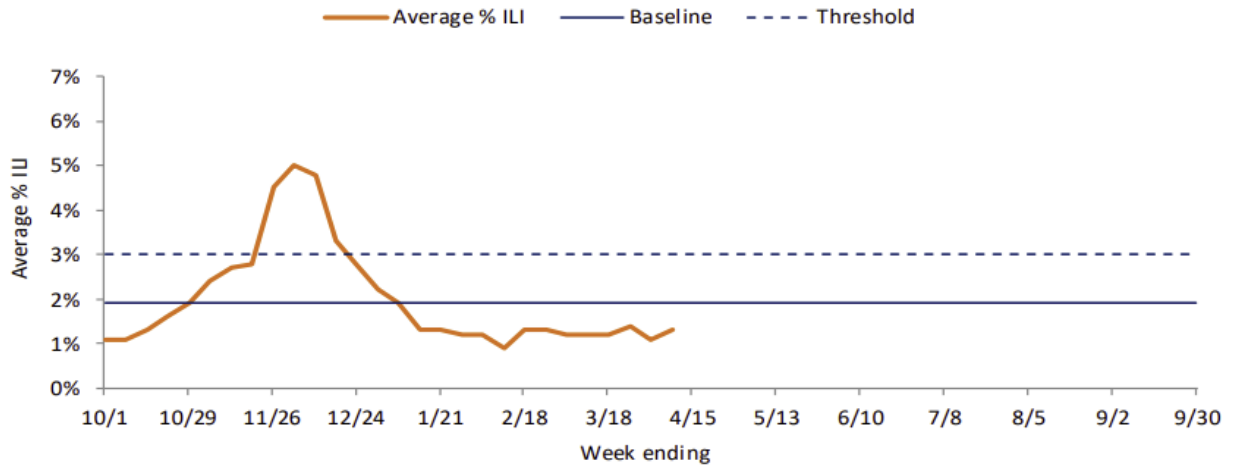
### CDC Pediatric Data (Since Week 40)

2022-23 To Date: Total Deaths	2021-22 To Date: Total Deaths	Pediatric Deaths Reported This Week	Notes on Deaths
141	45	2	One death was associated with an influenza A(H3) virus and occurred during week 51 of 2022 (the week ending December 24, 2022). The other death was associated with an influenza A virus for which no subtyping was performed and occurred during week 11 of 2023 (the week ending March 18, 2023).

## Statewide and Regional Influenza Activity

Influenza-like illness levels were below baseline statewide and in the southeastern region of the state.

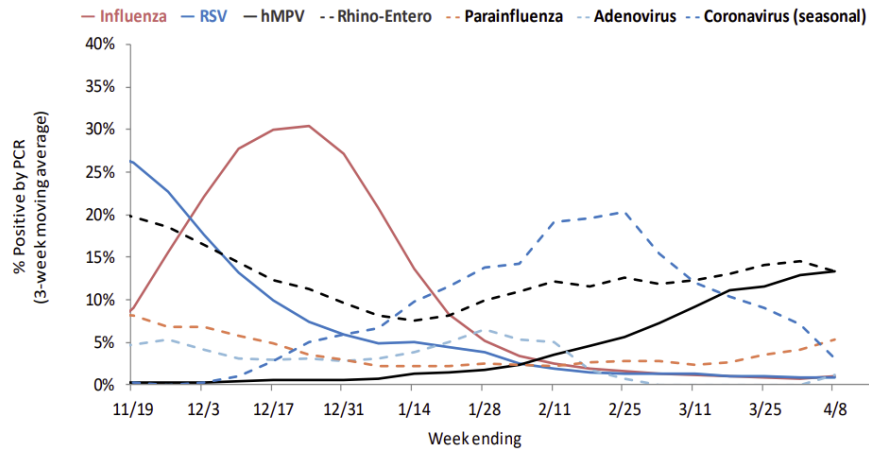
### Southeastern Region



Wisconsin Department of Health Services Respiratory Virus Surveillance Report, April 08, 2023

## Respiratory Virus Laboratory Surveillance

### WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES



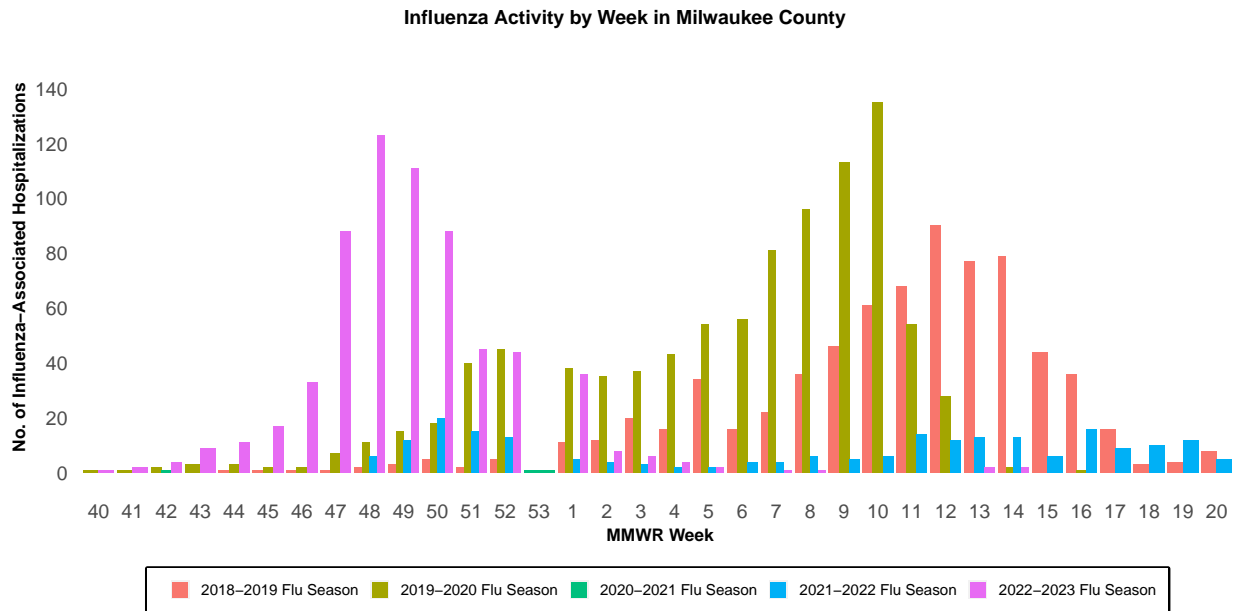
RSV = respiratory syncytial virus, hMPV = human metapneumovirus

Wisconsin Department of Health Services Respiratory Virus Surveillance Report, April 08, 2023

## Milwaukee County Influenza Activity

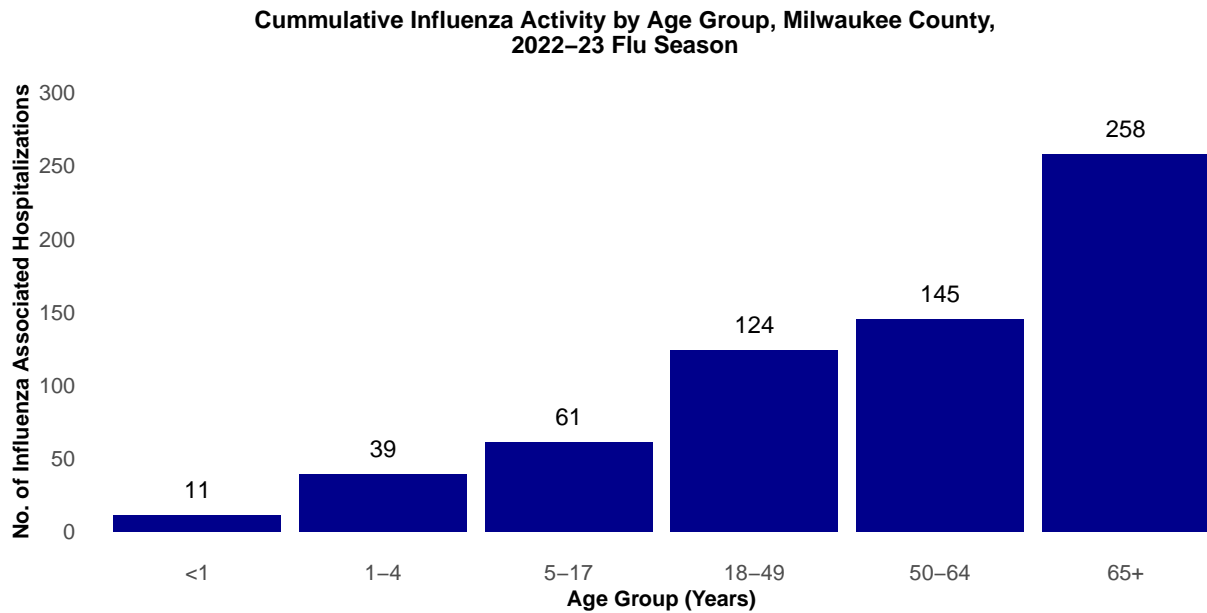
From October 1, 2022 through April 08, 2023 there have been 640 reported influenza-associated hospitalizations in Milwaukee County. Statewide hospitalization data are not yet available.

### Milwaukee County Influenza-Associated Hospitalizations



\*Flu activity was unusually low in the 2020-2021 flu season, despite high levels of testing. COVID-19 mitigation measures such as wearing face masks, social distancing, staying home, and school closures, in addition to flu vaccination, likely contributed to the low flu activity during this season.

### Milwaukee County Influenza-Associated Hospitalizations by Age Group MMWR Week 40, 2022 through Week 14, 2023



## Influenza Testing Data

### Public Health Laboratory Influenza Testing Data To-Date (Since Week 40)

Lab	Number Tested to date	Number Positive to date	Most Recent Week Percent Positive	Predominant A Subtype and Strain	Predominant B Strain	Predominant Type (A or B)
CDC	224,844	28,607	56/4,531(1.2%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	120/8,868(1.4%)	Unknown	Unknown	A
MHDL	55	10	0/0(0.0%)	H3N2	N/A	A

### National Influenza Testing Data, CDC FluView

Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2022-23 Season, week ending Apr 08, 2023

Reported by: U.S. WHO/NREVSS Collaborating Laboratories and ILINet

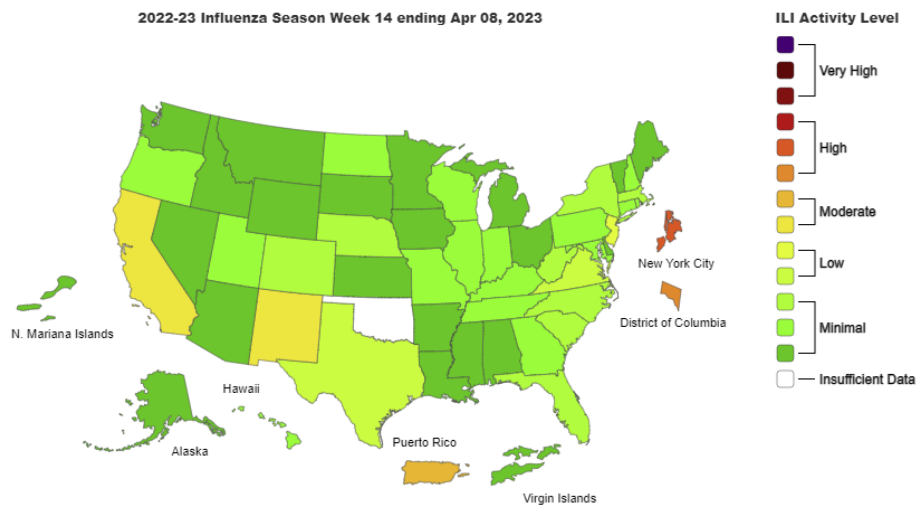
[Download Image](#)



<http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html> accessed 04/21/2023

## National Influenza Activity

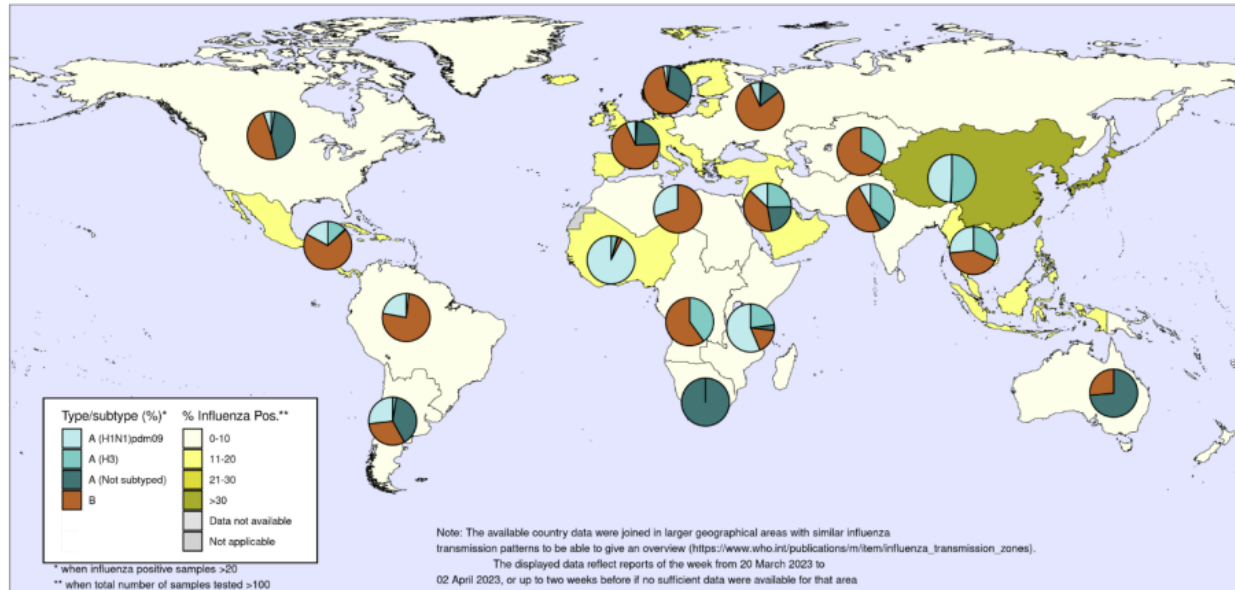
### Outpatient Respiratory Illness Activity Map, CDC FluView



<https://www.cdc.gov/flu/weekly/index.htm#MS2> accessed 04/21/2023

## Global Influenza Activity

**Percentage of respiratory specimens that tested positive for influenza, by influenza transmission zone<sup>1</sup>. Map generated on 14 April 2023.**

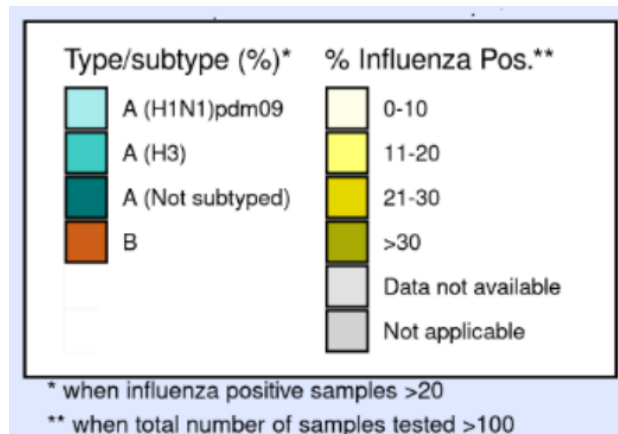


The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.



Data source: Global Influenza Surveillance and Response System (GISRS), FluNet (<https://www.who.int/initiatives/global-influenza-surveillance-and-response-system>)  
Copyright WHO 2023. All rights reserved.

<https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates>, accessed 04/21/2023



- Globally, influenza activity continued to decrease following the peak in late 2022. Influenza A viruses predominated with a slightly larger proportion of A(H1N1)pdm09 viruses detected among the subtyped influenza A viruses. The proportion of influenza B virus detection increased in recent weeks.

## COVID-19 Activity

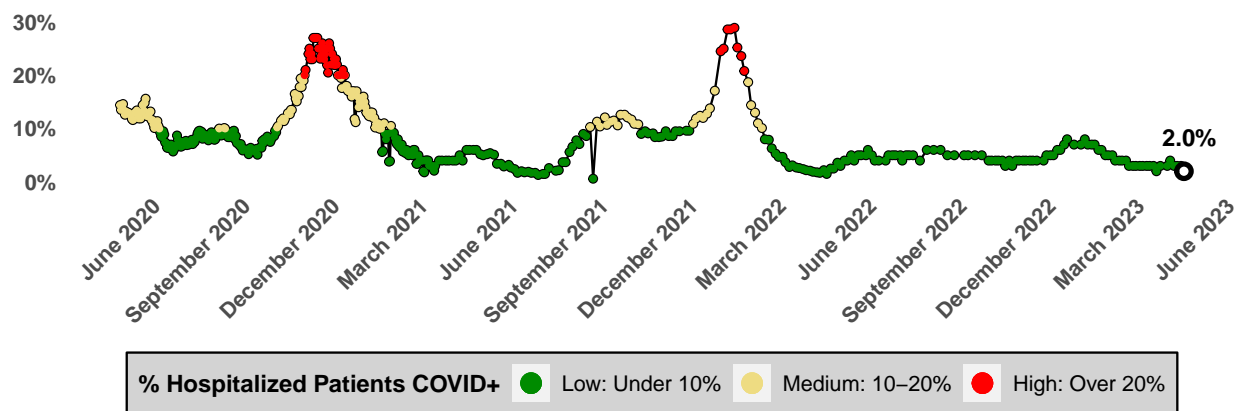
### City of Milwaukee Overview

- From March 1, 2020 through April 20, 2023, there have been 176699 reported confirmed positive COVID-19 cases and 1120 COVID-19 associated deaths in the City of Milwaukee.
- Considering vaccination status, as of April 20, 2023:
  - 55.6% of city residents have completed their primary COVID-19 vaccination series
  - 29.2% of city residents have received at least one COVID-19 booster

### COVID-19 Community Metrics, Updated April 20, 2023

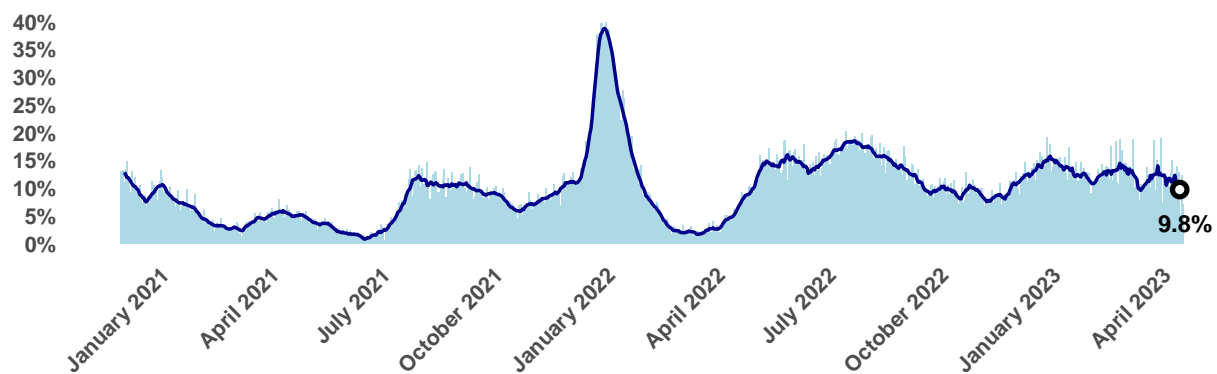
COVID-19 Community Level - Low		
County Weekly Metrics Used to Determine the COVID-19 Community Level		Comparison to Last Week
Case Rate per 100,000 population (Milwaukee County; includes City rate of <u>39.8</u> )	44.09	Down from 45.47
New COVID-19 admissions per 100,000 population	5.7	Down from 6.3
% Staffed inpatient beds in use by patients with confirmed COVID-19	2.4%	Down from 2.9%

### Hospitalized Patients that are COVID-19 Positive, Milwaukee County



Data Source: HERC Region 7  
Last Update: 2023-04-20

### Percent Positive COVID-19 Tests by Day with 7-Day Rolling Average, City of Milwaukee



Please Note: Positivity is presented as positivity by PCR testing only. Changes to testing policies over time and rising usage of at-home tests as opposed to laboratory-based tests may affect positivity rates and incidence rates and should be interpreted accordingly.

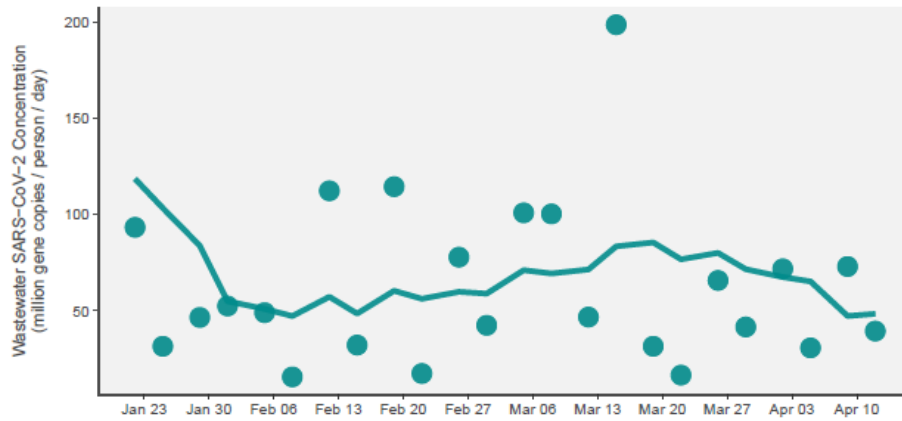
## SARS-CoV-2 Wastewater Surveillance

**Category:** Compared with the last 6 months of data, the average of the three most recent SARS-CoV-2 measurements is *moderate* for both the Jones Island and South Shore sewersheds.

**Trajectory:** Between 03/29/2023 and 04/12/2023, wastewater concentrations of SARS-CoV-2 *did not significantly increase* in the Jones Island or South Shore sewersheds.

<b>Milwaukee (Jones Island)</b> Estimated population served: 470,007	<span style="color: orange;">■</span>	Category: <b>Moderate</b>	Trajectory: <b>No alert</b>
---	---------------------------------------	------------------------------	--------------------------------

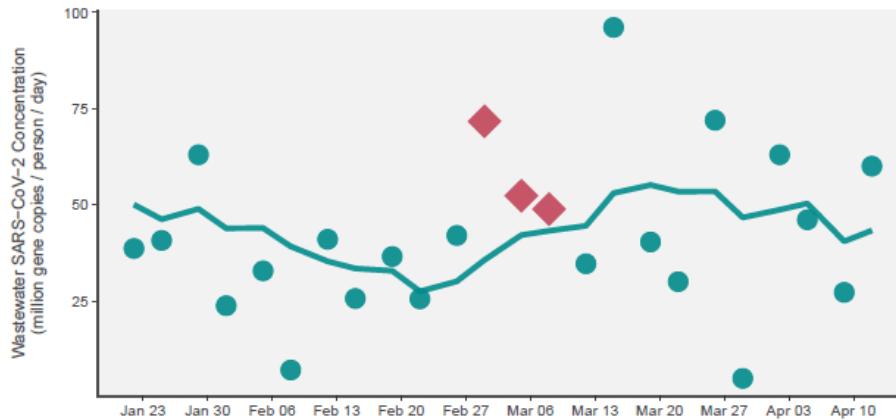
**90-Day Wastewater Trend for Milwaukee Jones Island (Jan 20, 2023–Apr 20, 2023)**



◆ - Significant Increase

<b>Milwaukee (South Shore)</b> Estimated population served: 615,934	<span style="color: orange;">■</span>	Category: <b>Moderate</b>	Trajectory: <b>No alert</b>
--	---------------------------------------	------------------------------	--------------------------------

**90-Day Wastewater Trend for Milwaukee South Shore (Jan 20, 2023–Apr 20, 2023)**



◆ - Significant Increase