

# Milwaukee Respiratory Virus Surveillance Update

## MMWR Week 9, Ending March 2, 2024

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## Overview

### County

- There were 15 influenza-associated hospitalizations reported in Milwaukee County during the week ending on March 2, 2024. From October 1, 2023 through March 2, 2024, there have been 454 reported influenza-associated hospitalizations in Milwaukee County (324 City of Milwaukee residents).

### State

- Influenza-like illness (ILI) activity is at moderate or high levels in every region of Wisconsin and influenza is the predominant virus of the week.
- While influenza activity is increasing, RSV and COVID-19 are decreasing.
- Influenza A and B are co-circulating, the majority of influenza viruses are influenza B.

### National

- Seasonal influenza activity remains elevated nationally with increases in some parts of the country. This week 18 jurisdictions experienced moderate activity and 20 jurisdictions experienced high or very high activity.
- 10 influenza-associated pediatric deaths occurred during this week.
- Influenza A viruses were the most frequently reported 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 2023-2024 influenza season contain the following:

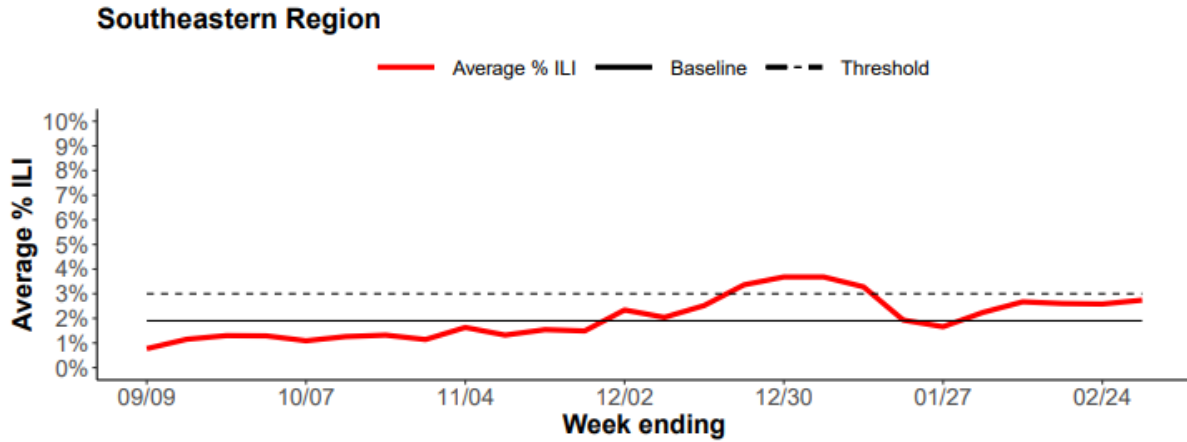
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

### CDC Pediatric Data (Since Week 40)

2023-24 To Date: Total Deaths	2022-23 To Date: Total Deaths	Pediatric Deaths This Week	Notes on Deaths
103	182	10	Ten influenza-associated pediatric deaths occurring during the 2023-2024 season were reported to CDC during Week 9. The deaths occurred during Week 51 of 2023 (the week ending December 23, 2023) and between weeks 3 and 9 of 2024 (the weeks ending January 20, 2024, and March 2, 2024). Six deaths were associated with influenza A viruses. Two of the influenza A viruses had subtyping performed; they were A(H1N1) and A(H3) viruses. Four deaths were associated with influenza B viruses, one of which was determined to be a B/Victoria lineage-virus. A total of 103 influenza-associated pediatric deaths occurring during the 2023-2024 season have been reported to CDC.

## Statewide and Regional Influenza Activity

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

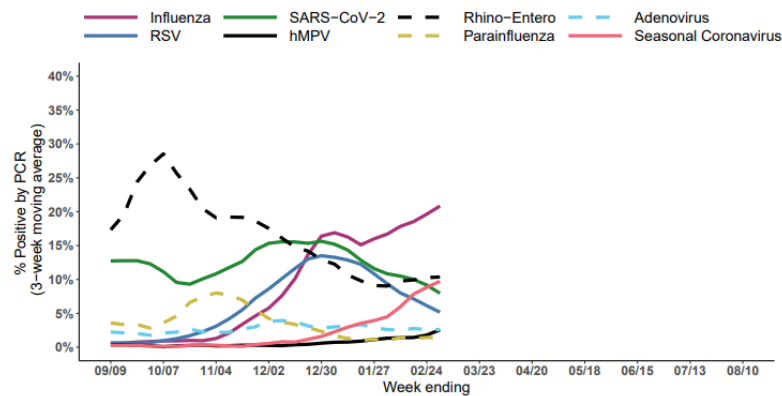


Wisconsin Department of Health Services Respiratory Virus Surveillance Report, March 2, 2024

## Respiratory Virus Laboratory Surveillance

### Wisconsin Laboratory Surveillance for Respiratory Viruses

Percent positivity of respiratory viruses tested by PCR, NREVSS



Number and percent positivity of respiratory viruses tested by PCR, NREVSS  
Week 9, Ending on March 02, 2024

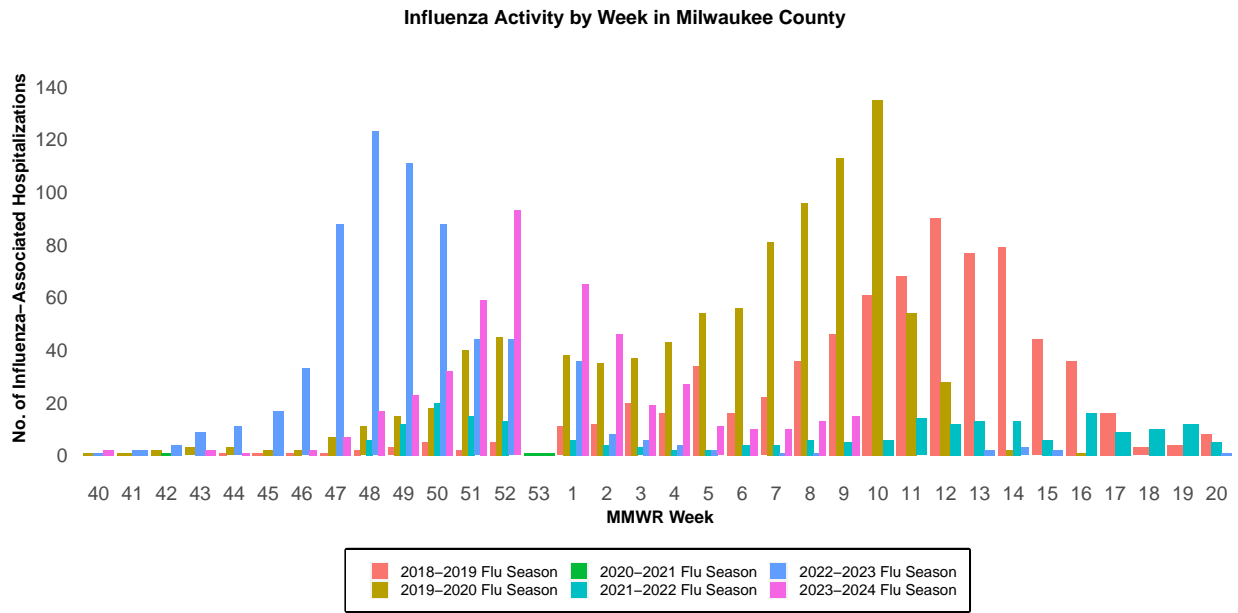
RSV = respiratory syncytial virus, hMPV = human metapneumovirus

Wisconsin Department of Health Services Respiratory Virus Surveillance Report, March 2, 2024

## Milwaukee County Influenza Activity

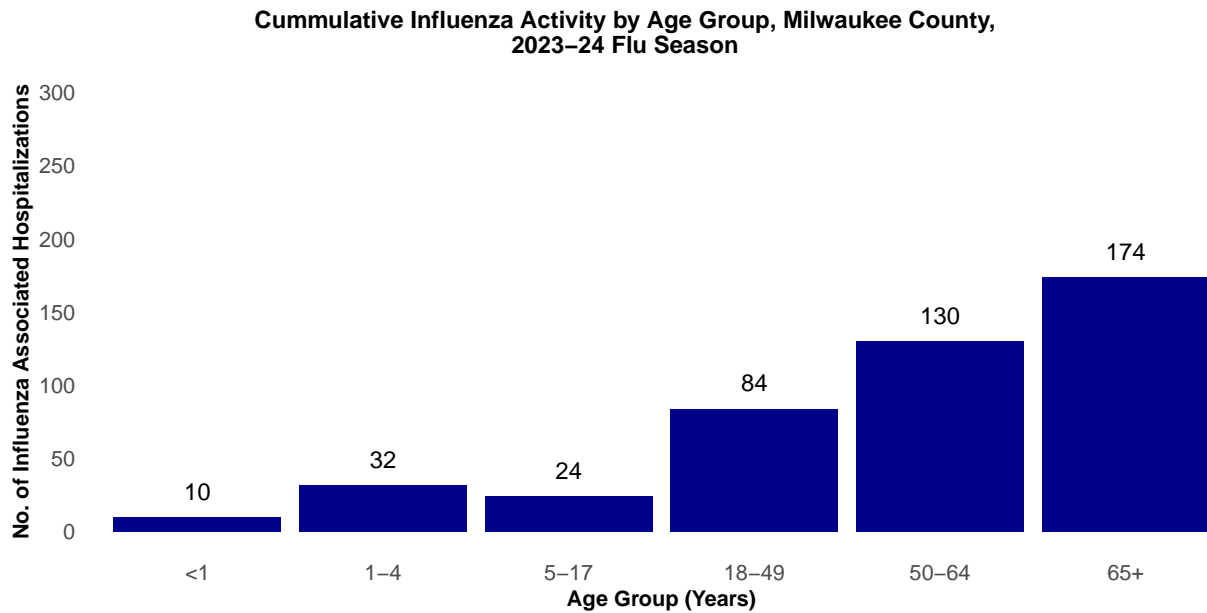
From October 1, 2023 through March 2, 2024 there have been 454 reported influenza-associated hospitalizations in Milwaukee County.

### 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, 2023 through Week 9, 2023

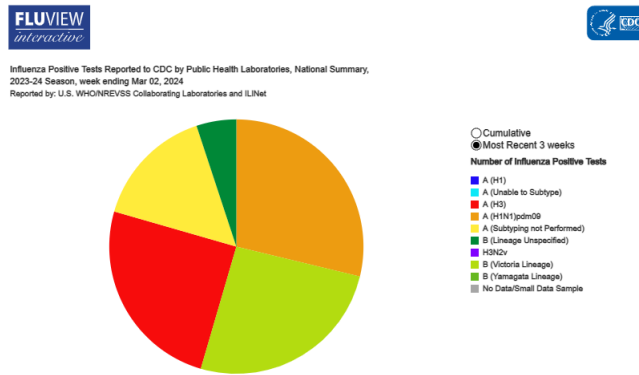


## Influenza Testing Data

### 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	2,346,992	265,084	11,294/81,237 (13.9%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	3,255/14,877 (21.9%)	Unknown	Unknown	B
MHDL	5	0	0/5 (0%)	Unknown	Unknown	N/A

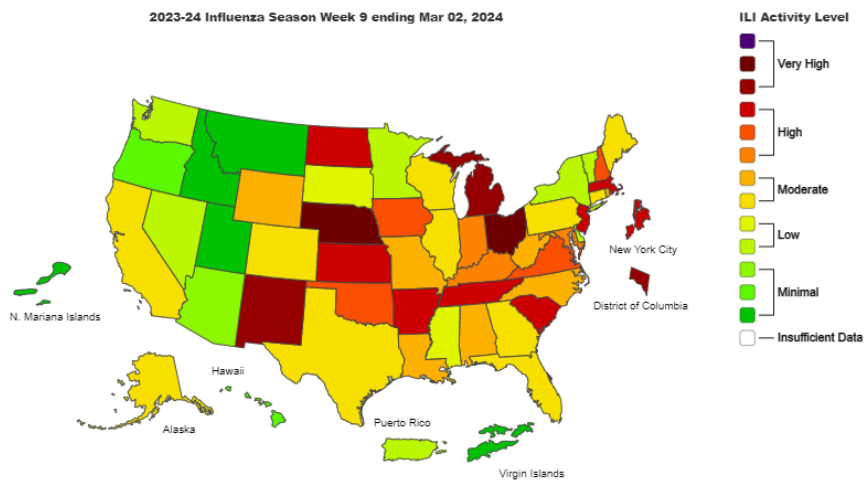
### National Influenza Testing Data, CDC FluView



<http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html> accessed 03/08/2024

## National Influenza Activity

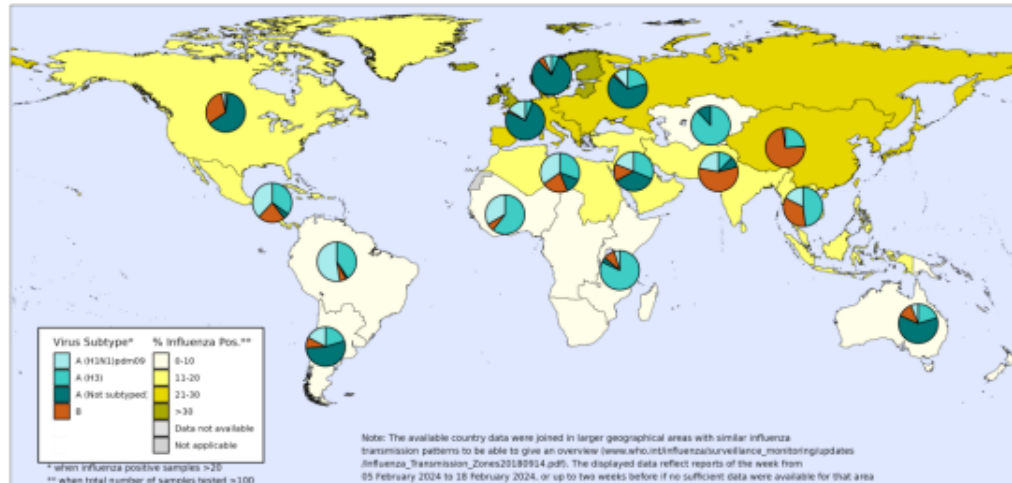
### Outpatient Respiratory Illness Activity Map, CDC FluView



<https://www.cdc.gov/flu/weekly/index.htm#MS2> accessed 03/08/2024

## Global Influenza Activity

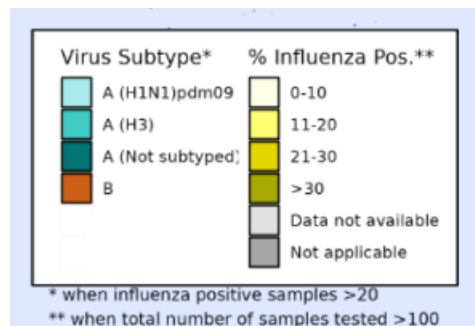
**Percentage of respiratory specimens testing positive for influenza, by influenza transmission zone.<sup>1</sup> Map generated on 01 March 2024. (The displayed data reflect reports of the weeks from 05 February 2024 to 18 February 2024 or up to two weeks before if insufficient data were available for an area for that period.)**



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 ([www.who.int/infonet](http://www.who.int/infonet))  
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<https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates>, accessed 03/08/2024

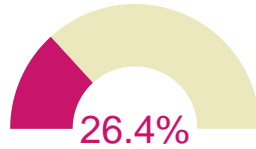


- In the countries of North America, influenza activity remained within or below expected levels for this time of year in Canada and remained elevated but may have peaked in the United States of America, with some indicators showing decreases.
- Positivity for influenza A viruses decreased in both countries while positivity for influenza B viruses increased slightly in Canada and remained stable in the USA. Influenza A(H1N1)pdm09 viruses predominated. In the USA, influenza-like illness (ILI) and influenza activity remained stable overall, and trends varied by region.

# Influenza Vaccination Uptake by City of Milwaukee Residents, 2023-2024 Season

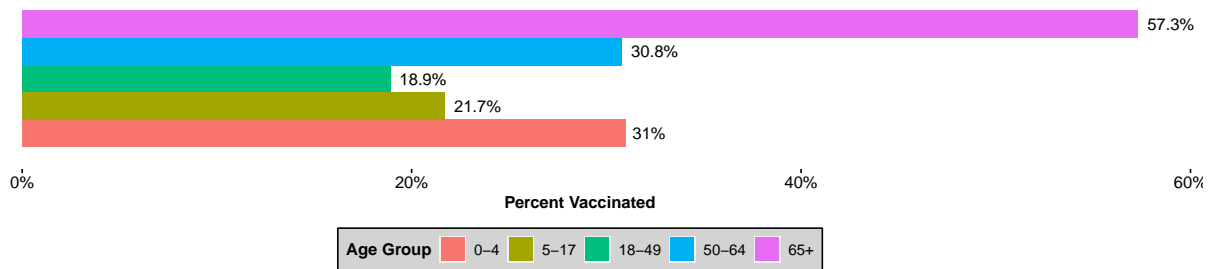
## Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of March 8, 2024:

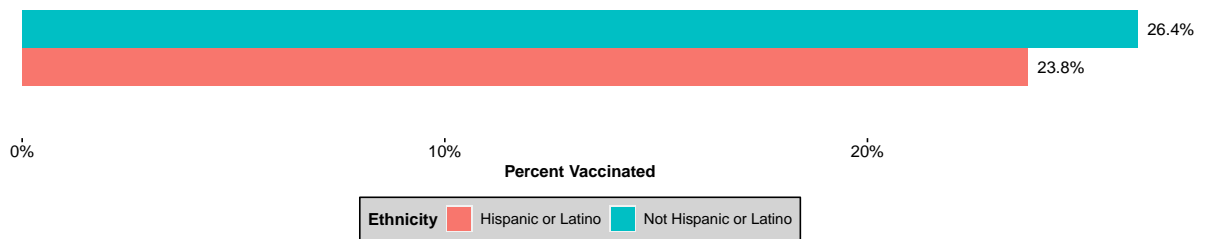


## Influenza Vaccination Coverage for 2023-2024 Season by Demographics

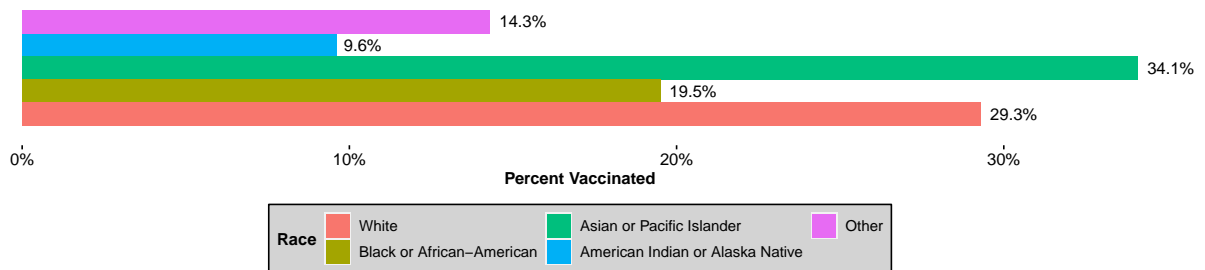
### Influenza Vaccinations by Age Group



### Influenza Vaccinations by Ethnicity

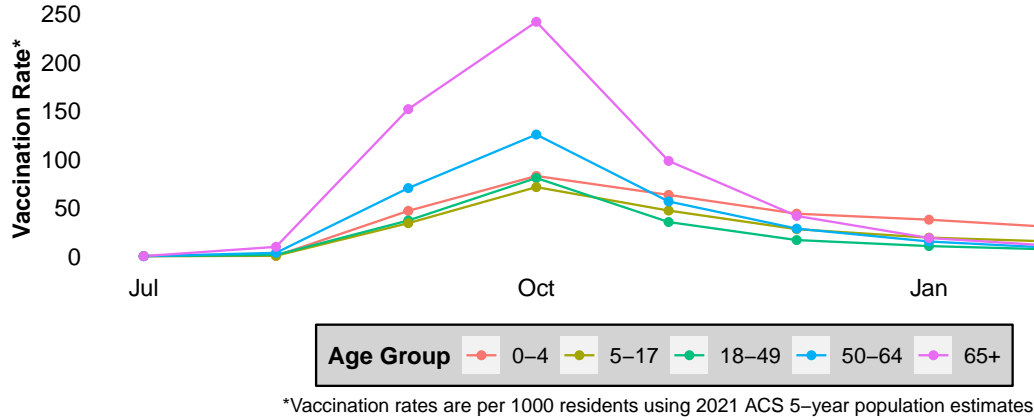


### Influenza Vaccinations by Race

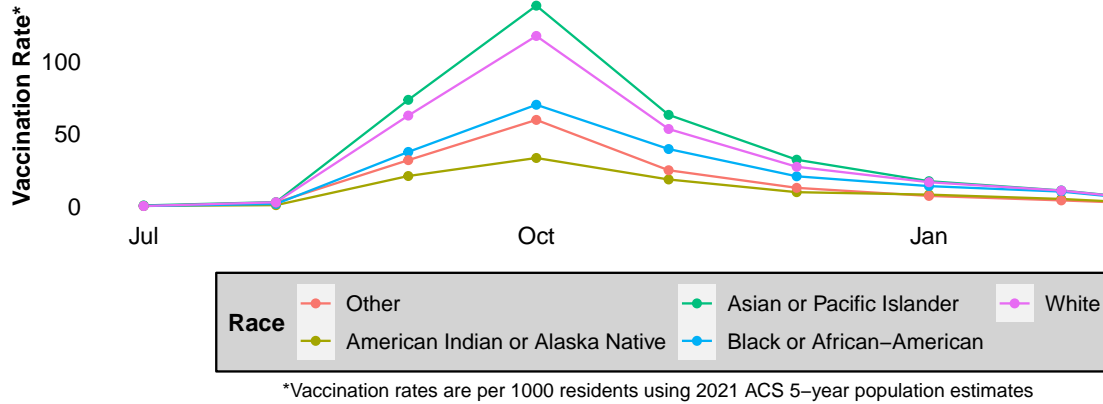


## Vaccination Uptake Timelines

### Influenza Vaccinations for Milwaukee Residents, 2023–24 Season by Month and Age Group

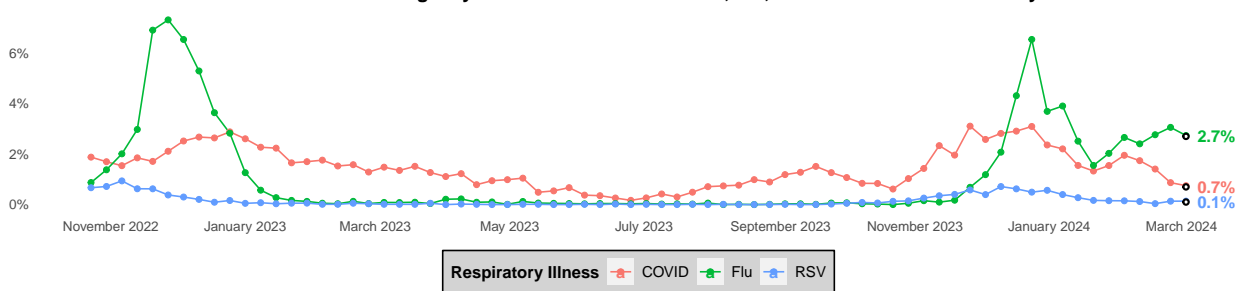


### Influenza Vaccinations for Milwaukee Residents, 2023–24 Season by Month and Race



## Respiratory Illness Emergency Department Visits in Milwaukee County

### Percent of All Emergency Room Visits Due to COVID, Flu, or RSV in Milwaukee County





## COVID-19 Activity

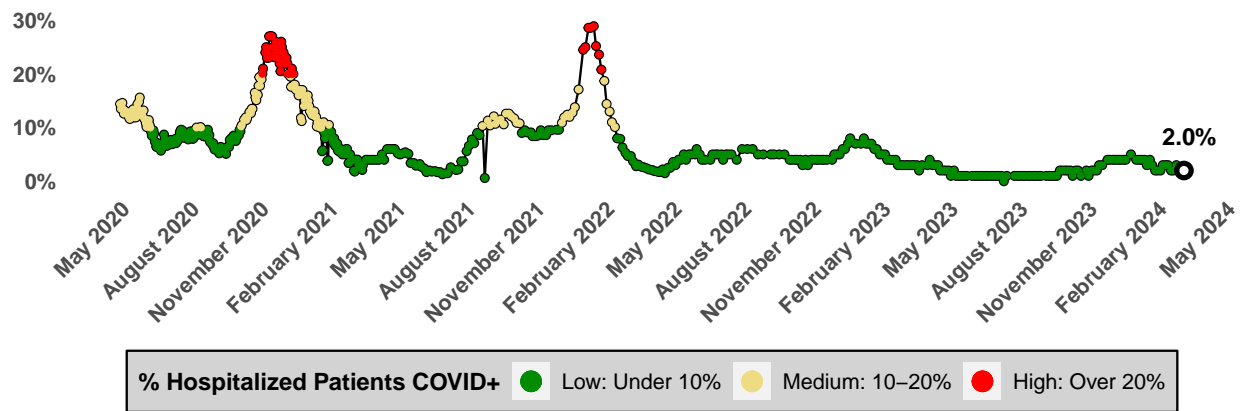
### City of Milwaukee COVID-19 Vaccination Uptake

- As of March 8, 2024, 11.8% of city residents are up-to-date with their COVID-19 vaccinations.

### COVID-19 Hospital Admission Metrics, Updated March 8, 2023

COVID-19 Hospital Admission Level - Low		
County Weekly Metrics Used to Determine the COVID-19 Hospital Admission Level	Comparison to Prior Week	
New hospital admissions of confirmed COVID-19, past week (total)	99	Down from 129
New COVID-19 admissions per 100,000 population	6.3	Down from 8.2
% Staffed inpatient beds occupied by patients with confirmed COVID-19 past week (average)	2.5%	Down from 2.8%

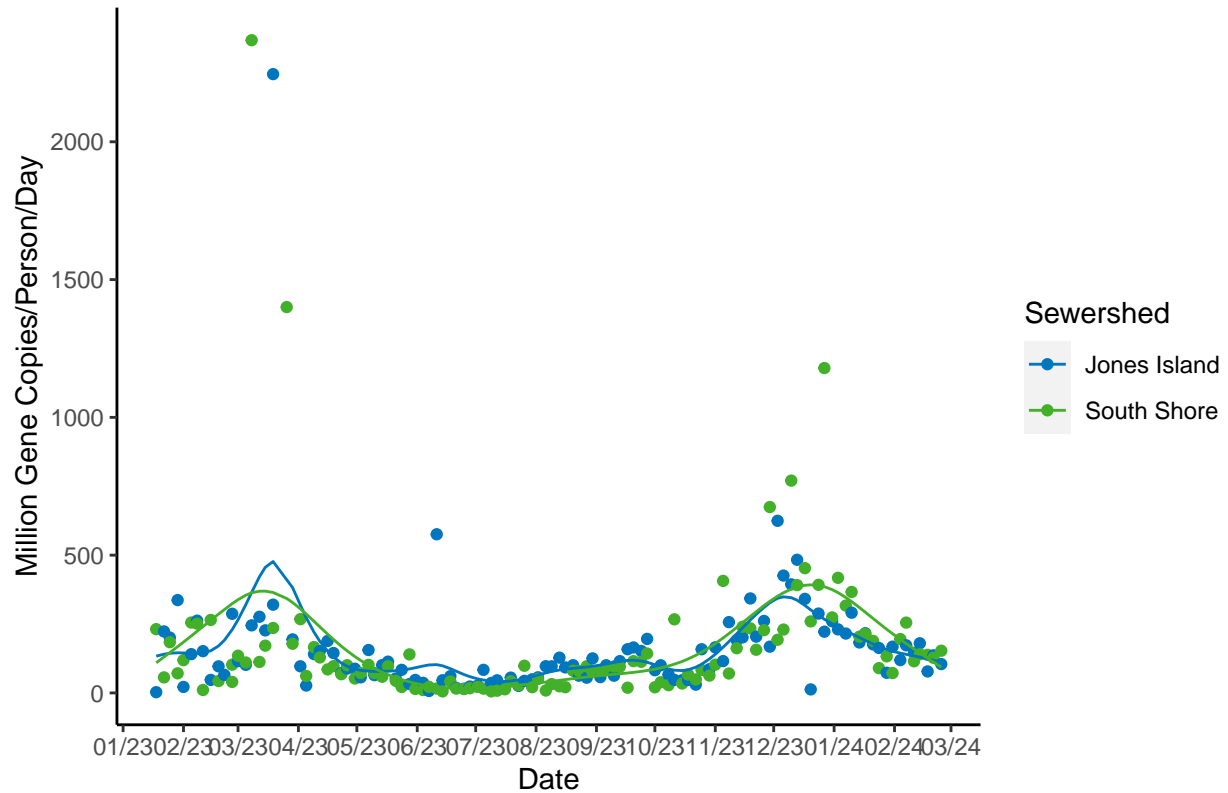
### Hospitalized Patients that are COVID-19 Positive Timeline, Milwaukee County



Data Source: HERC Region 7  
Last Update: 2024-03-07

## SARS-CoV-2 Wastewater Surveillance

### COVID-19 Trends in Milwaukee Sewersheds



**Category:** Compared to the last 6 months of data, the average of the last three most recent SARS-CoV-2 measurements are in the 26.53 percentile for Jones Island Sewershed and are in the 42.86 percentile for South Shore Sewershed. These measurements are *low* for Jones Island and *moderate* for South Shore.

**Trajectory:** Wastewater concentrations of SARS-CoV-2 *significantly increased* in the Jones Island or South Shore sewersheds.