



Michigan Flu Focus

Weekly Influenza Surveillance Report

February 17, 2023

Vol. 20; No. 18

Week Ending February 11, 2023 | WEEK 6

Editor: Sue Kim

Editor email: KimS2@michigan.gov

Data provided in this report are preliminary and will be updated as additional data are received

Updates of Interest

The Michigan Department of Agriculture and Rural Development (MDARD) [Reminds Bird Owners to Continue Protecting Their Flocks from Highly Pathogenic Avian Influenza](#). “While MDARD has not reported any new cases of highly pathogenic avian influenza (HPAI) in domestic poultry flocks since December 2022, the virus continues to be detected throughout the United States and in Michigan’s [wild birds](#).”

Seasonal Flu Vaccination Coverage

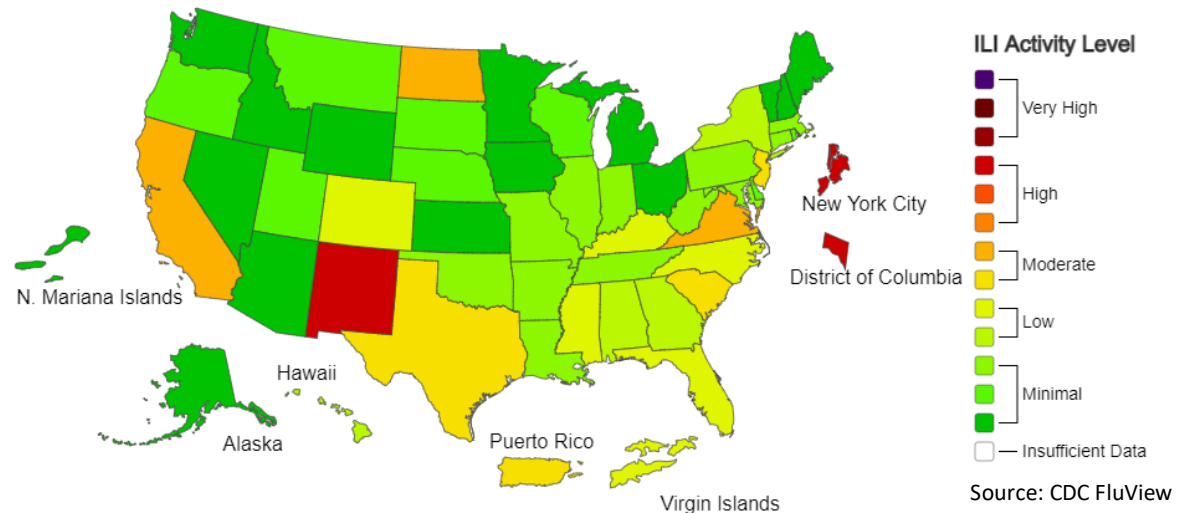
Michigan's goal is to vaccinate **4 million** residents during the 2022-2023 flu season.

As of **February 11, 2023**, there have been **3,081,239** doses administered (**77%** towards goal) for the 2022-2023 flu season.

Please visit the Flu Vaccination Dashboard at www.michigan.gov/flu for more info.

Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.
2022-23 Influenza Season Week 6 ending Feb 11, 2023



Note: This map represents U.S. ILI activity levels reported to ILINet. The display used in past seasons showing Geographic spread of influenza has been suspended for the 2022-2023 influenza season

Influenza-associated Pediatric Mortality

Nationally, 111 influenza-associated pediatric deaths have been reported for the 2022-2023 flu season.

No pediatric deaths have been confirmed by MDHHS for the 2022-2023 flu season to date.

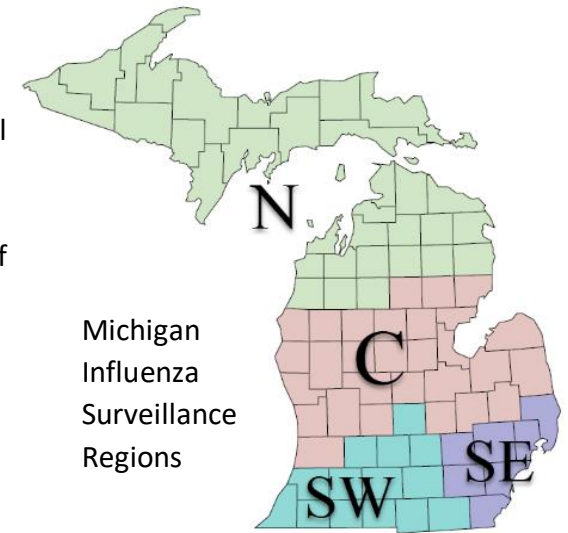
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan’s influenza surveillance. ILINet provides data on the total number of outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI[‡]). Participating Michigan emergency department and urgent care facilities send syndromic data voluntarily in near real-time to the Electronic Surveillance System for the Early Notification of Community Based Epidemics (ESSENCE). Discharge diagnosis and chief complaint data elements are used to determine whether visits meet the ILI case definition. One-hundred and forty-one (141) Michigan facilities contributing data to ESSENCE were validated and enrolled in ILINet starting the 2021-2022 flu season.

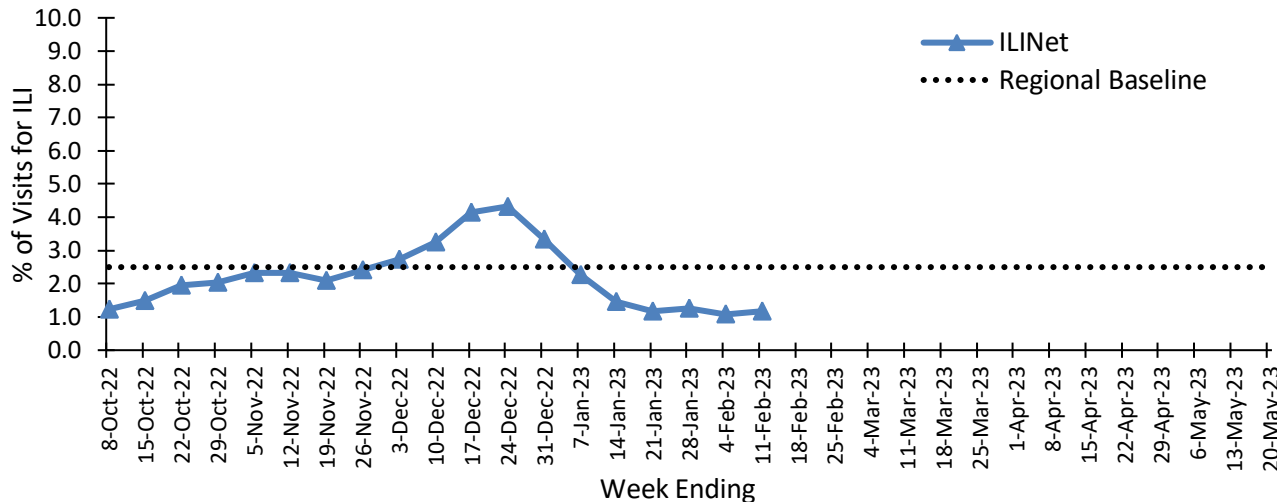
[‡]ILI is defined as fever (>100°F) and a cough and/or a sore throat.

Number of Reports and ILI % by Region during this time period:

Region	C	N	SE	SW
No. of Reporters (153)	51	18	55	29
ILI %	1.3	1.4	1.1	1.2



Percentage of Visits for ILI in Michigan Reported by ILINet, 2022-2023



Note: ILINet monitors visits for ILI (fever and cough and/or sore throat) and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

Michigan ILI Activity: **1.2%**

(Last week: 1.1%)

Regional Baseline*: 2.5%

A total of **969** patient visits due to ILI were reported out of **82,026** outpatient visits.

*Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations.

National Surveillance

In the United States, **2.6%** of outpatient visits were due to ILI (Last week: 2.6%)

This is **above** the national baseline of 2.5%

Become an ILINET provider!

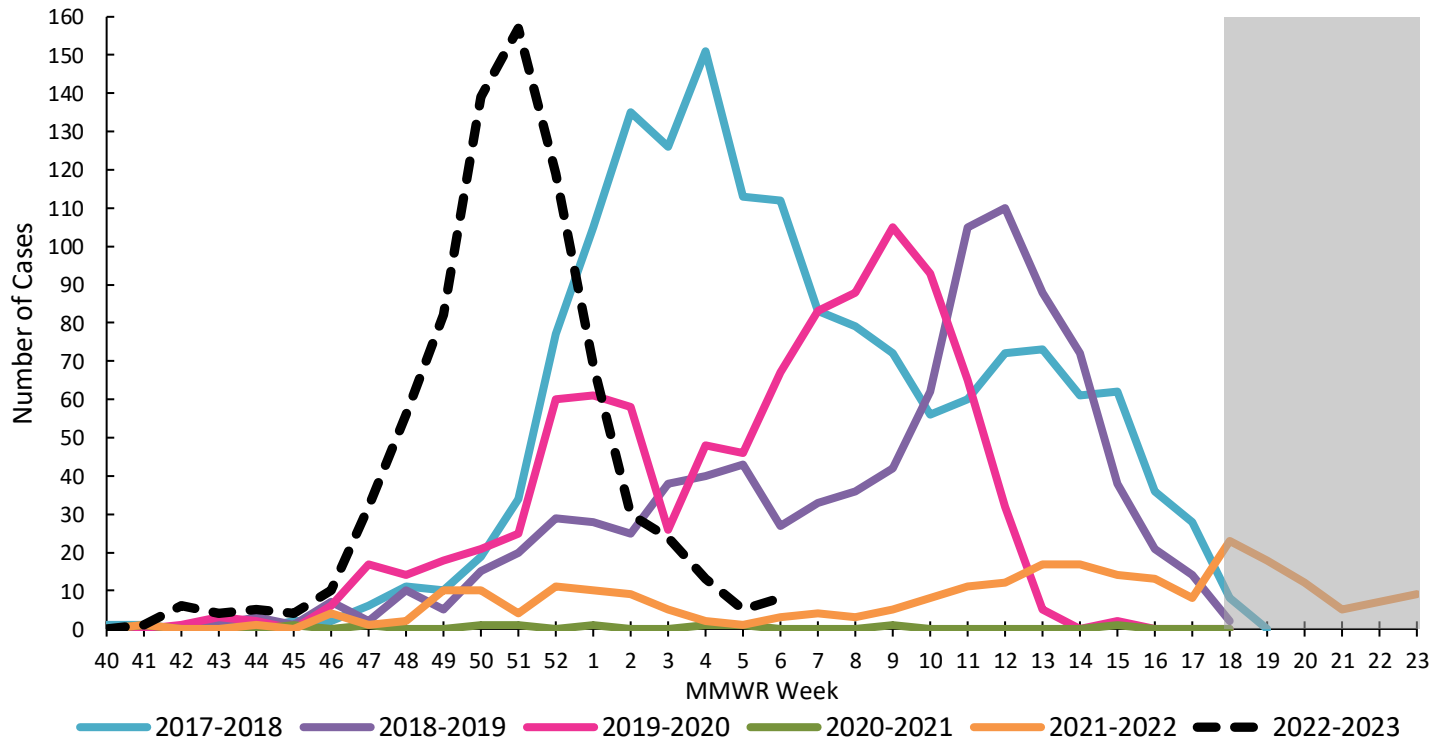
Contact Shelly Doeblner at DoeblerM@michigan.gov

Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were **8** (0 pediatric, 8 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1st, **764** (126 pediatric, 638 adult) influenza-associated hospitalizations were reported in the catchment area for the 2022-2023 season.

IHSP Cases, 2017-18 Through 2022-2023



Washtenaw County was added in the 2017-2018 season

Note: Due to late season activity in 2022, IHSP was extended to Week 23 during the 2021-2022 season.

Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide influenza surveillance.

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide will assist public health in recognizing changes in the age or geographic distribution of influenza in this population.

If your facility is interested in participating or would like more information, please contact Sue Kim (KimS2@michigan.gov)

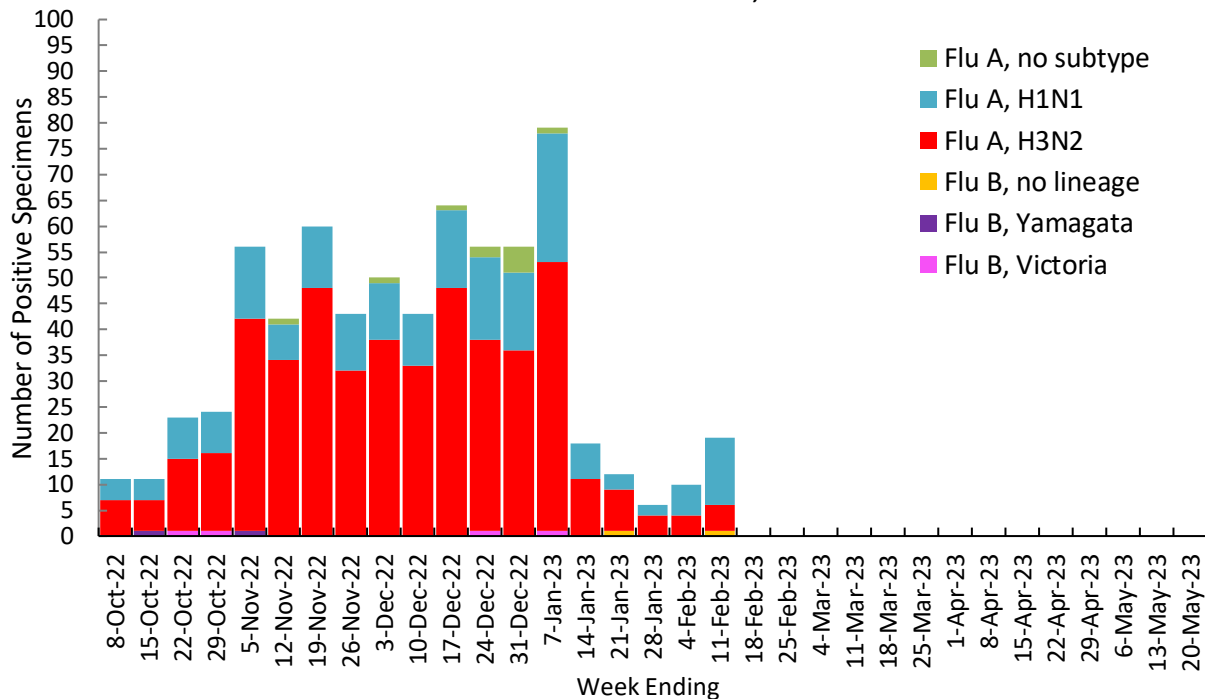
MDHHS BOL Virology Laboratory Data

There were **19** (4C, 0N, 7SE, 8SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2022-2023 season are summarized below.

of Positive Influenza Virus Results by Region

	C	N	SE	SW	Total
H1N1	54	4	75	58	191
H3N2	97	2	177	197	473
Infl B	1	0	7	0	8
Total	152	6	259	255	672

Influenza Positive Test Results, 2022-2023



Note: Based on Specimen Collection Date. Flu B lineage data will be reported based on MDHHS BOL testing runs and will be backtracked into this graph

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Eight (8) sentinel clinical labs (2SE, 0SW, 5C, 1N) reported for the weeks ending 2/4 – 2/11/2023.

Southeast Region

Influenza A:	elevated
Influenza B:	sporadic – low
Parainfluenza:	low
RSV:	elevated
Adenovirus:	elevated
hMPV:	elevated

Central Region

Influenza A:	low – elevated
Influenza B:	sporadic – low
Parainfluenza:	low
RSV:	low
Adenovirus:	low – slightly elevated
hMPV:	low – slightly elevated

Southwest Region

Influenza A:	no data available
Influenza B:	no data available
Parainfluenza:	no data available
RSV:	no data available
Adenovirus:	no data available
hMPV:	no data available

North Region

Influenza A:	sporadic
Influenza B:	sporadic
Parainfluenza:	sporadic
RSV:	elevated
Adenovirus:	no activity
hMPV:	no activity

There were 0 influenza outbreaks reported to MDHHS during this time period. Influenza outbreaks for the 2022-2023 season are summarized below.

of Influenza Outbreaks by MI Region

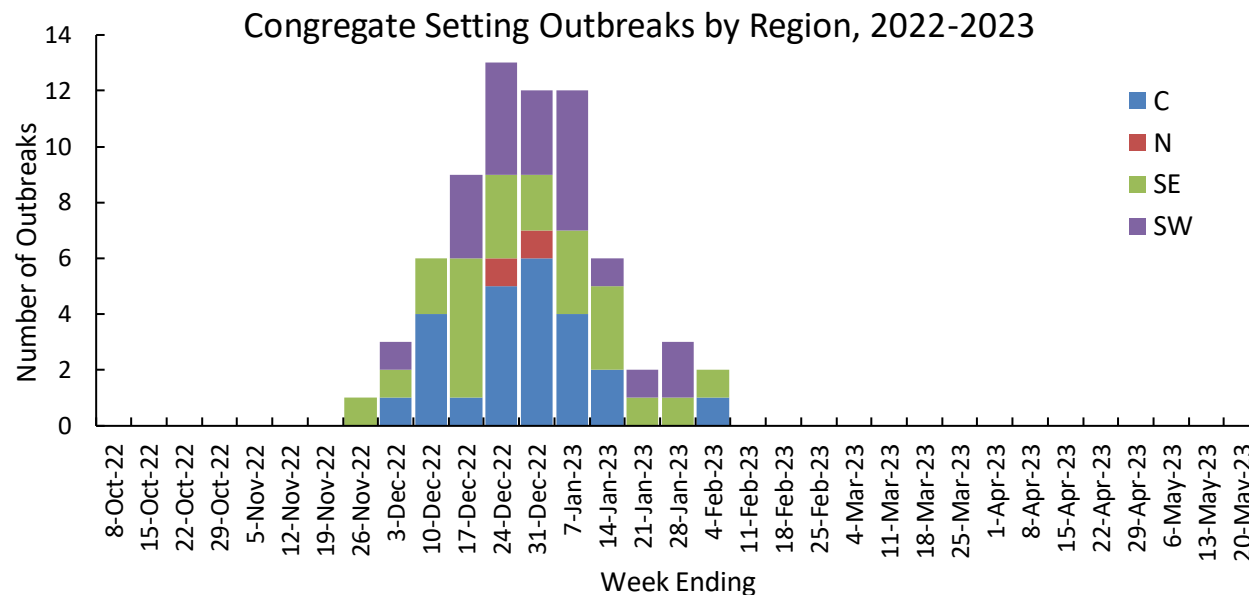
Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	2	0	7	0	9
Long-term Care / Assisted Living Facility	21	2	14	17	54
Healthcare Facility	0	0	1	1	2
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	1	0	1	2	4
Other	0	0	0	0	0
Total	24	2	23	20	69

Did you know?

Congregate setting outbreaks of viral respiratory illness are required to be reported to your local health department? See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)
- **NEW!** [Respiratory Virus Outbreaks in Nursing Homes Flow Diagram](#)

Note: Data are reported on laboratory confirmed influenza outbreaks. Non-flu, non-COVID outbreaks and ILI outbreaks without confirmatory flu testing are not reported in the table and graph. **Mixed outbreaks with confirmed flu (including COVID) will be included in the table and graph. There were 0 mixed outbreaks reported during this time period.**



Influenza 2nd-Dose Reminders for Young Children

The CDC's [Advisory Committee on Immunization Practices \(ACIP\) recommends](#) everyone aged 6 months and older receive annual flu vaccination, with rare exception. Some children aged 6 months through 8 years, are recommended to receive two doses of flu vaccine this season to be fully protected.

Children aged 6 months through 8 years should receive 2 doses of flu vaccine, separated by at least 4 weeks, for the 2022-2023 flu season, if this their first flu season where they are receiving any flu vaccine, or if they have not previously received at least 2 doses of flu vaccine prior to this season. The previous two doses do not need to be within the same influenza season or within two consecutive seasons.

According to the CDC, children younger than 5 years are at higher risk for severe flu complications if they get sick with flu. Additionally, annual flu vaccination and receiving the recommended number of flu vaccine doses is the best way to prevent flu illness.

Currently, only 26.8% of children aged 6 months through 8 years of age in Michigan have received the number of doses of flu vaccine they are recommended to receive this flu season. Two-dose coverage for children in this cohort is even lower.

Please contact your child's health care provider to determine if they are recommended to receive two doses of flu vaccine this season. Immunization providers are encouraged to notify parents and guardians of children recommended to receive two doses of flu vaccine. For more information, please visit www.michigan.gov/flu and www.cdc.gov/flu.

Influenza News Blast

- [Researchers getting closer to a "universal" flu vaccine](#)
- [STUDY: Vaccine Effectiveness Against Life-Threatening Influenza Illness in Children](#)
- [STUDY: Comparison between Patients Hospitalized with Influenza and COVID-19 at a Tertiary Care Center](#)
- [Flu Disparities Among Racial and Ethnic Minority Groups](#)
- [World Health Organization \(WHO\) Influenza Update](#)
- [Mandatory Influenza Vaccination for Healthcare Personnel Honor Roll](#)

Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [Influenza Surveillance in Michigan](#)
- [Immunization Action Coalition: Ask the Experts - Flu](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [CDC FluView Weekly Report](#)

View Michigan Flu Focus Report archives [here](#).

2022-2023

Influenza Season Preliminary Burden Estimates

The Centers for Disease Control and Prevention (CDC) have released [preliminary in-season burden estimates](#) for the 2022-2023 flu season.

CDC estimates that, from **October 1, 2022 through February 11, 2023** there have been:

- **25 million – 51 million** flu illnesses
- **12 million – 25 million** flu medical visits
- **280,000 – 630,000** flu hospitalizations
- **18,000 – 56,000** flu deaths

MDHHS Contributors

Bureau of Infectious Disease Prevention

S. Bidol, MPH, M. Doebler, MPH, S. Kim, MPH

Bureau of Laboratories

B. Robeson, MT, V. Vavricka, MS

To be added to the distribution list, please contact Sue Kim at KimS2@michigan.gov