



Michigan Flu Focus

Weekly Influenza Surveillance Report

January 3, 2025

Vol. 22; No. 13

Week Ending December 28, 2024 | WEEK 52

Editor: Sue Kim, MPH

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

Updates of Interest

On January 3, 2025, the Michigan Department of Agriculture and Rural Development (MDARD) announced [the presence of highly pathogenic avian influenza \(HPAI\) in two commercial poultry facilities in Ottawa County](#), marking the first cases of HPAI in the new year. Adhering to biosecurity measures and using personal protective equipment (PPE) continue to be vital in helping ensure the health of Michigan's domestic animals and the general public.

For the status of HPAI detections in MI, please visit the [MDARD Avian Influenza Webpage](#).

Seasonal Flu Vaccination Coverage

Michigan's goal is to vaccinate **4 million** residents during the 2024-2025 flu season.

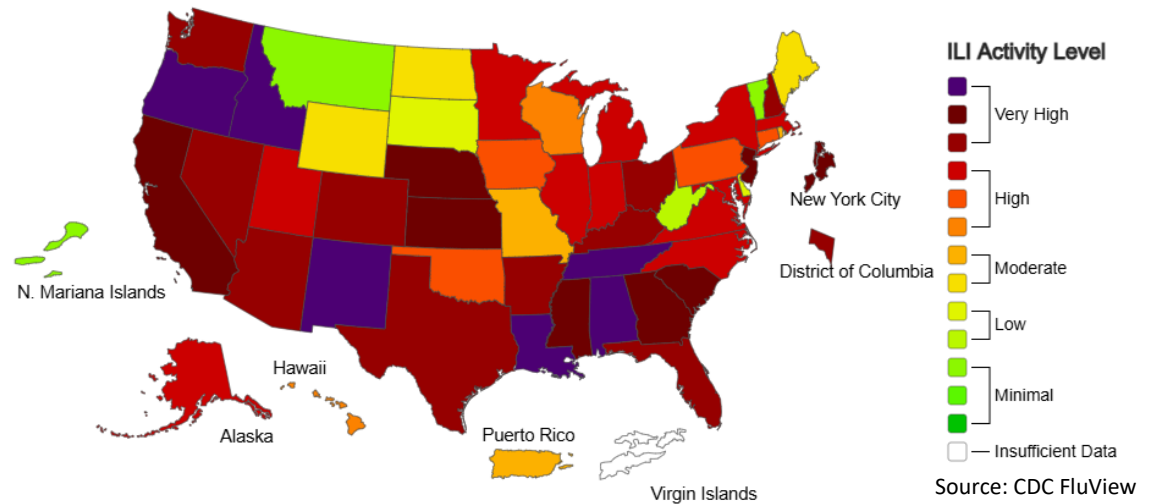
As of **December 28, 2024, 2,425,609** Michiganders have received a flu vaccine (**60.6%** towards goal) for the 2024-2025 season.

For more info, please visit the [Michigan Respiratory Virus Dashboard](#)

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.

2024-25 Influenza Season Week 52 ending Dec 28, 2024



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 2024-2025 influenza season

Influenza-associated Pediatric Mortality

Nationally, **11** influenza-associated pediatric deaths have been reported for the 2024-2025 flu season.

No influenza-associated pediatric deaths in Michigan have been confirmed by MDHHS for the 2024-2025 flu season.

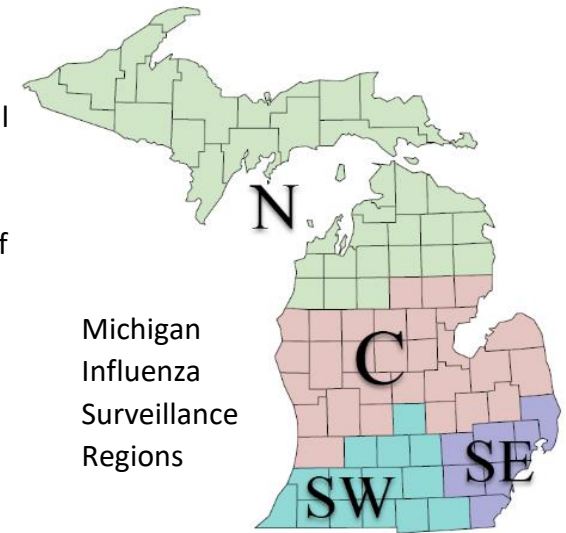
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

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. Two hundred and thirty-one (231) Michigan facilities contributing data to ESSENCE have been validated and enrolled in ILINet.

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

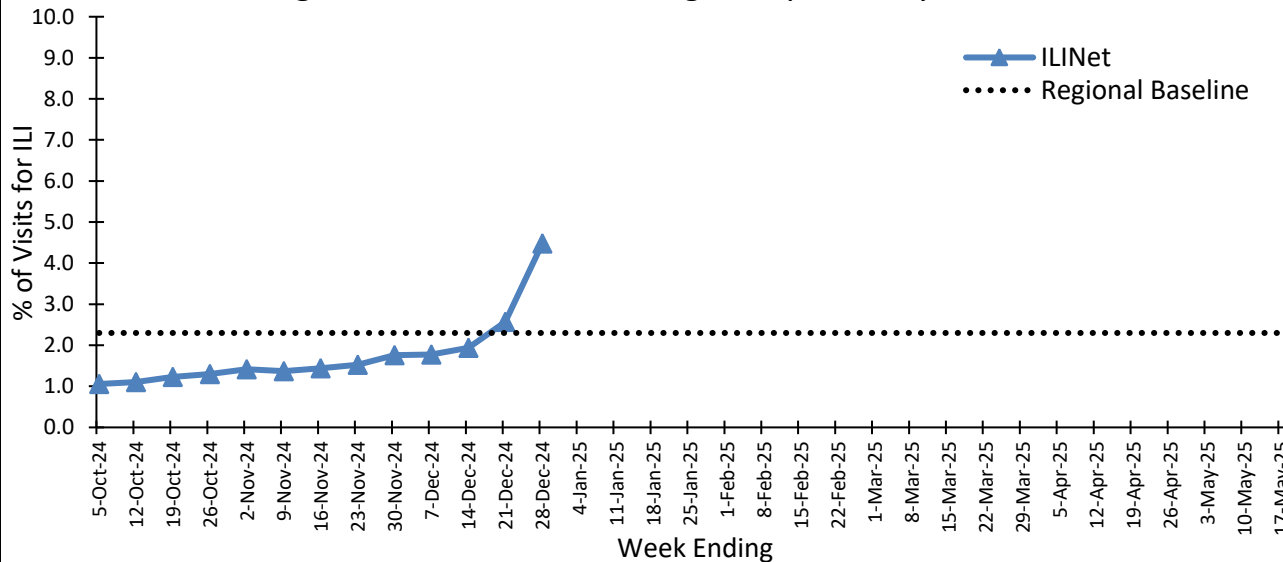
Number of Reports and ILI % by Region during this time period:

	C	N	SE	SW
# of Reporters (295)	114	32	115	34
ILI %	2.5	6.3	6.3	3.9



Michigan Influenza Surveillance Regions

Percentage of Visits for ILI in Michigan Reported by ILINet, 2024-2025



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: 4.5% ↑

(Last week: 2.6%)

Regional Baseline*: 2.3%

A total of **6,337** patient visits due to ILI were reported out of **141,587** 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, **6.8%** of outpatient visits were due to ILI (Last week: 5.0%)

This is **above** the national baseline of 3.0%

Become an ILINET provider!

Contact Faria Farin at FarinF1@michigan.gov

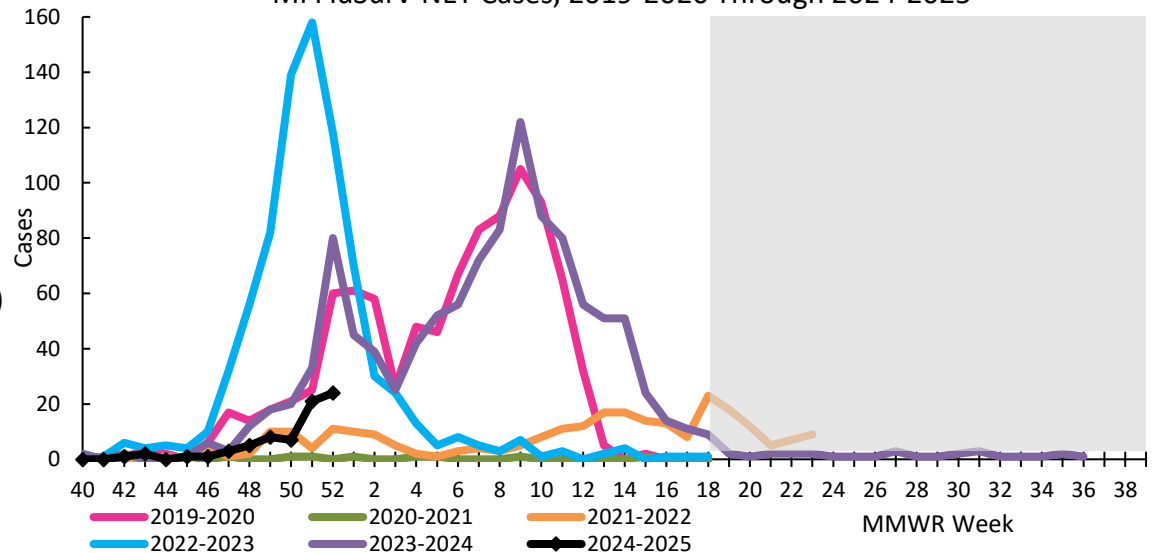
Influenza Hospitalization Surveillance Network (FluSurv-NET)

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 for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties. (Livingston County will be piloted during the 2024-2025 season)

of MI FSN cases reported for the 2024-2025 season:

	Pediatric	Adult	Total
Week 52 (Change from Previous Week)	2 (-2)	22 (+5)	24 (+3)
Cumulative Cases	8	65	73

MI FluSurv-NET Cases, 2019-2020 Through 2024-2025



Note: FSN was extended during the 2021-2022 season to Week 23 due to late season activity in 2022 and extended during the 2023-2024 season in response to the HPAI outbreak among dairy cattle
 Note: Livingston County was added as a pilot site for the 2024-2025 season

Influenza Sentinel Hospital Network (ISHN)

ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza hospitalizations by age group.

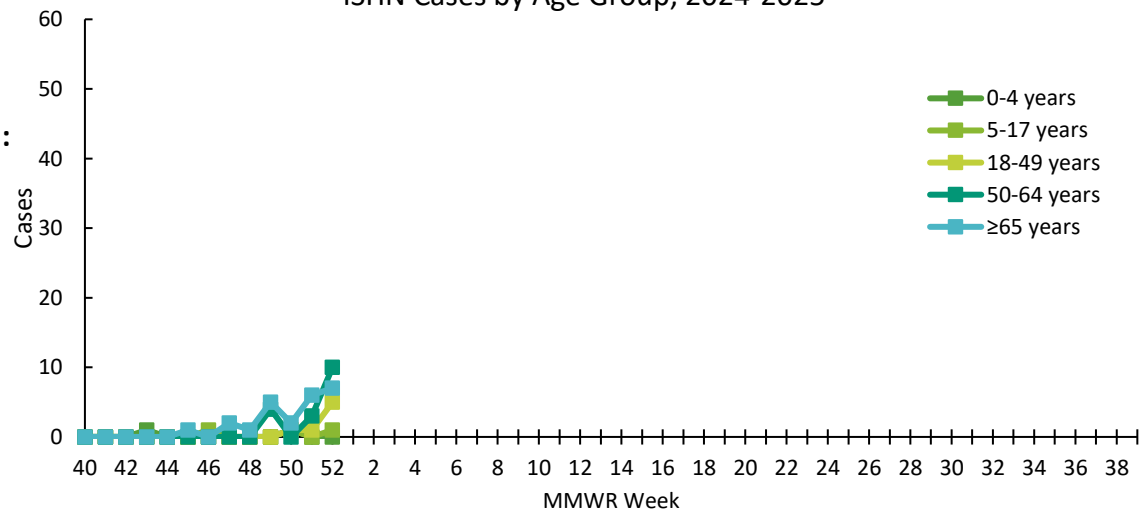
of Sites & Hospitalizations by Region during this time period:

Region	C	N	SE	SW	Total
Reporting Sites	2	1	0	4	7
Hospitalizations	7	2	0	14	23

Total # of Reported Hospitalizations for ISHN by Region:

Age Group	C	N	SE	SW	Total
0-4	0	0	0	2	2
5-17	1	0	0	2	3
18-49	1	1	0	5	7
50-64	8	0	0	9	17
65+	9	3	0	12	24
Total	19	4	0	30	53

ISHN Cases by Age Group, 2024-2025



If you'd like to join ISHN, please contact
 Val Tellez Nunez at telleznunezv@michigan.gov

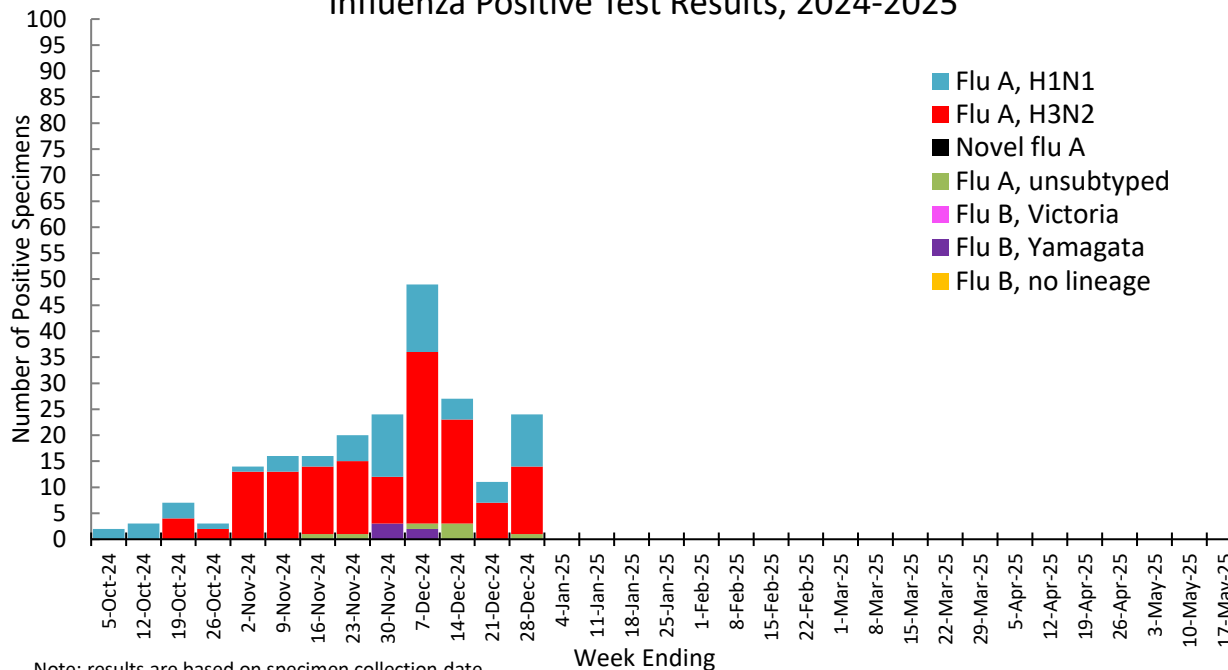
MDHHS Bureau of Laboratories (BOL) Virology Laboratory Data

There were **24** (1C, 0N, 8SE, 15SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2024-2025 season are summarized below.

of Positive Influenza Virus Results by Region

	C	N	SE	SW	Total
Flu A H1N1	7	0	39	17	63
Flu A H3N2	23	0	95	23	141
Novel flu A*	0	0	0	0	0
Flu A unsubtype	1	0	3	3	7
Flu B Victoria	2	0	3	0	5
Flu B Yamagata	0	0	0	0	0
Flu B no lineage	0	0	0	0	0
Total	33	0	140	43	216

Influenza Positive Test Results, 2024-2025



Note: results are based on specimen collection date

*Novel influenza A results include: H5, H1N1v, H1N2v, H7N2v, H1v, H3v

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Four (4) sentinel clinical labs (1SE, 1SW, 2C, 0N) reported for the week ending 12/28/2024.

Southeast Region		
Influenza A:	Moderate ↑	↑ = Increase from previous week
Influenza B:	Sporadic ↑	
SARS-CoV-2:	Elevated – moderate ↑	↓ = Decrease from previous week
Parainfluenza:	Low ↓	
RSV:	High ↑	→ = Similar to previous week
Adenovirus:	Low ↓	
hMPV:	Low ↓	
Central Region		
Influenza A:	Moderate ↑	
Influenza B:	No activity →	
SARS-CoV-2:	Low - slightly elevated ↓	
Parainfluenza:	Low - slightly elevated ↓	
RSV:	Moderate - very high ↑	
Adenovirus:	Low ↓	
hMPV:	Low ↑	
Southwest Region		
Influenza A:	Moderate ↑	
Influenza B:	Sporadic ↑	
SARS-CoV-2:	Moderate ↑	
Parainfluenza:	Sporadic - low →	
RSV:	Low – elevated ↑	
Adenovirus:	Sporadic ↓	
hMPV:	Sporadic – low ↑	
North Region		
Influenza A:	No data available	
Influenza B:	No data available	
SARS-CoV-2:	No data available	
Parainfluenza:	No data available	
RSV:	No data available	
Adenovirus:	No data available	
hMPV:	No data available	

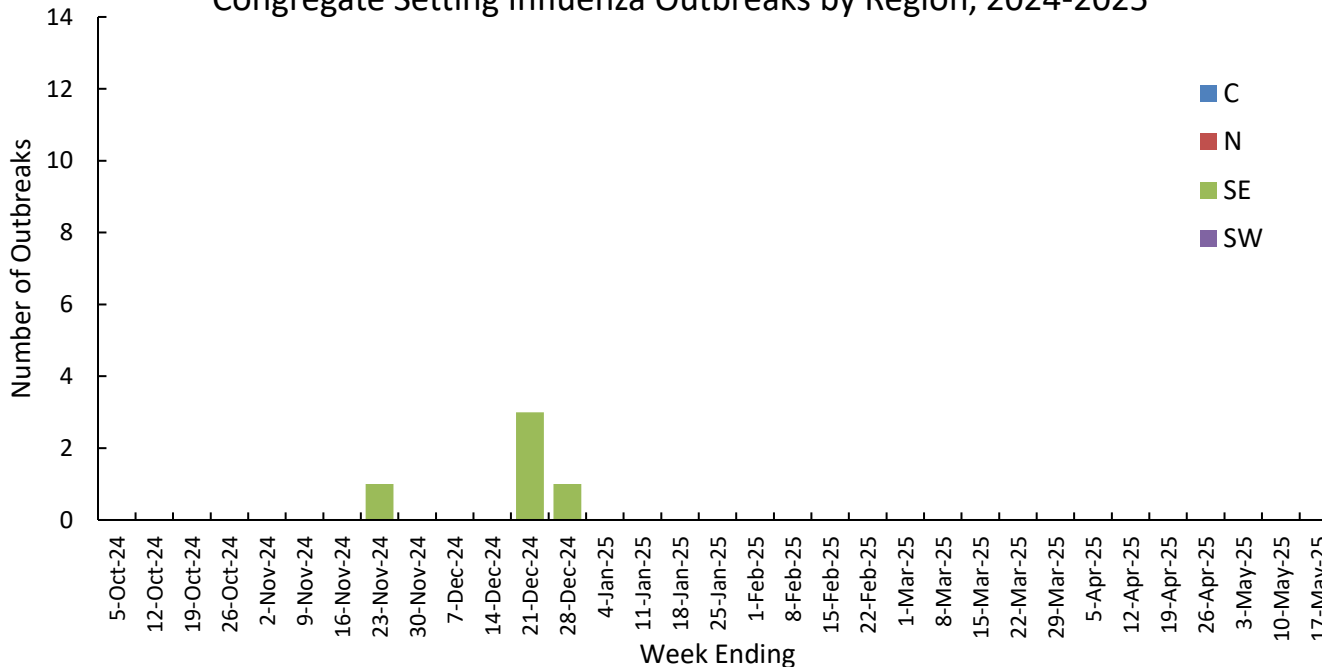
There was **1** (0C, 0N, 1SE, 0SW) confirmed influenza outbreak reported to MDHHS during this time period. Influenza outbreaks for the 2024-2025 season are summarized below.

of Reported Influenza Outbreaks by Region

Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	0	0	0	0	0
Long-term Care / Assisted Living Facility	1	0	4	0	5
Healthcare Facility	0	0	2	0	2
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	0	0	1	0	1
Other	0	0	0	0	0
Total	1	0	7	0	8

Note: Data are reported on outbreaks with laboratory confirmed influenza. Other non-influenza, non-COVID outbreaks, and ILI outbreaks without confirmatory influenza testing will not be reported in the table and graph.

Congregate Setting Influenza Outbreaks by Region, 2024-2025



Did you know?

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

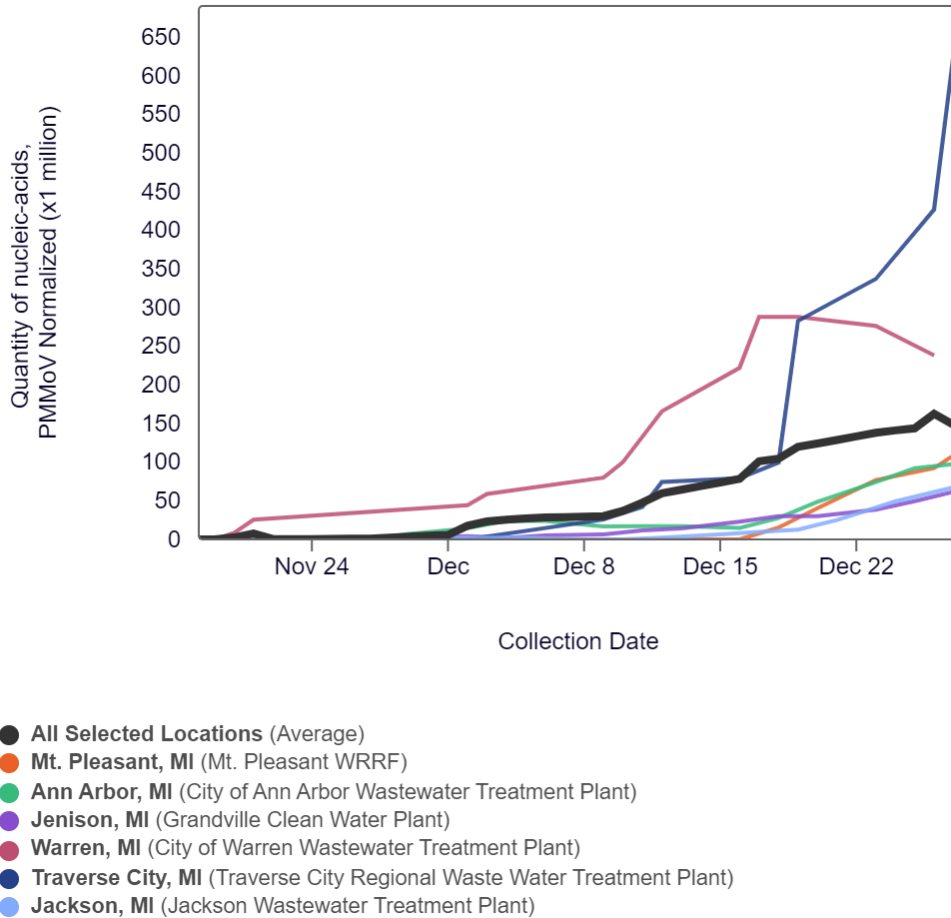
- Influenza Guidance for [Local Health Departments \(LHDs\)](#), [Healthcare Providers](#), and [Laboratories](#)

Outbreak Response Resources:

- [MDHHS Guidelines for Influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)
- [MDHHS Respiratory Virus Outbreaks in Nursing Homes Flow Diagram](#)
- [MDHHS Respiratory Illness Outbreak Response Tool for use in Skilled Nursing Facilities](#)
- [CDC Viral Respiratory Pathogens Toolkit for Nursing Homes](#)

For information on COVID-19 outbreaks, please visit the [Michigan Respiratory Virus Dashboard](#)

WastewaterSCAN Dashboard: Influenza A, Michigan (11/18/24 - 12/27/24)



Influenza News Blast

- [Bird flu cases detected in Jackson, Ottawa Counties \(Michigan Advance\)](#)
- [H5N1 mutations in severely ill patient could boost spread, but risk remains low \(CIDRAP\)](#)
- [More avian flu confirmed in US dairy cattle and poultry flocks as Arizona reports wastewater detections \(CIDRAP\)](#)
- [Poll: One year in, acceptance of RSV vaccination growing \(UPenn\)](#)
- [Report: Flu vaccine over 50% effective against severe illness among US children from 2015 to 2020 \(CIDRAP\)](#)
- [How America Lost Control of the Bird Flu, Setting the Stage for Another Pandemic \(KFF\)](#)

Additional Resources

- [MDHHS Respiratory Virus Dashboard](#)
- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Flu Webpage and Test Request Forms](#)
- [Immunization Action Coalition: Ask the Experts - Flu](#)
- [National Wastewater Surveillance System \(CDC\)](#)
- [CDC FluView](#)
- [Vaccine finder \(vaccines.gov\)](#)

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

2024-2025 Influenza Season Preliminary Burden Estimates

The Centers for Disease Control and Prevention (CDC) have released [preliminary in-season burden estimates](#) for the 2024-2025 flu season.

Since October 1, 2024, CDC estimates that there have been between:

5.3 million – 9.3 million
flu illnesses

2.4 million – 4.2 million
flu medical visits

63,000 – 140,000
flu hospitalizations

2,700 – 13,000
flu deaths

Data as of January 3, 2025

MDHHS Contributors

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