



Michigan Flu Focus

Weekly Influenza Surveillance Report

February 7, 2025

Vol. 22; No. 18

Week Ending February 1, 2025 | WEEK 5

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 31, 2025, the USDA Animal and Plant Health Inspection Service (APHIS) National Veterinary Services Laboratories (NVSL) [confirms the first detection of highly pathogenic avian influenza \(HPAI\) H5N1 clade 2.3.4.4b, genotype D1.1 in dairy cattle](#) as a result of State tracing and investigation, following an initial detection on silo testing under the [USDA's National Milk Testing Strategy \(NMTS\)](#) in Nevada. This is the first detection of this virus genotype in dairy cattle. Genotype D1.1 represents the predominant genotype in the North American flyways this past fall and winter and has been identified in wild birds, mammals, and spillovers into domestic poultry. This detection does not change [USDA's HPAI eradication strategy](#) and is a testament to the strength of the NTMS.

Seasonal Flu Vaccination Coverage

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

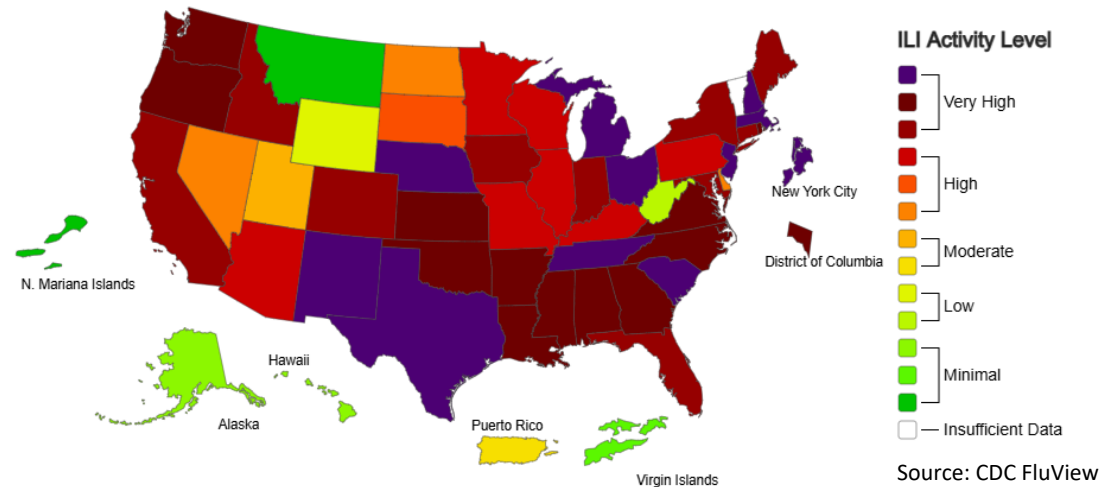
As of **February 1, 2025**, **2,646,240** Michiganders have received a flu vaccine (**66.2%** towards goal) for the 2024-2025 season.

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 5 ending Feb 01, 2025



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, **57** 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.

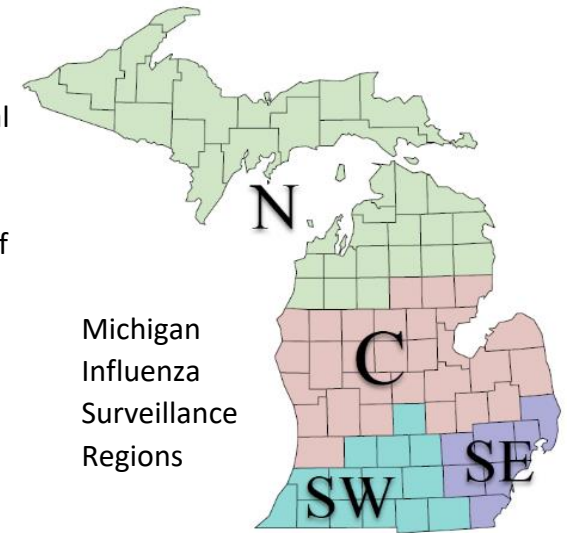
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

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.

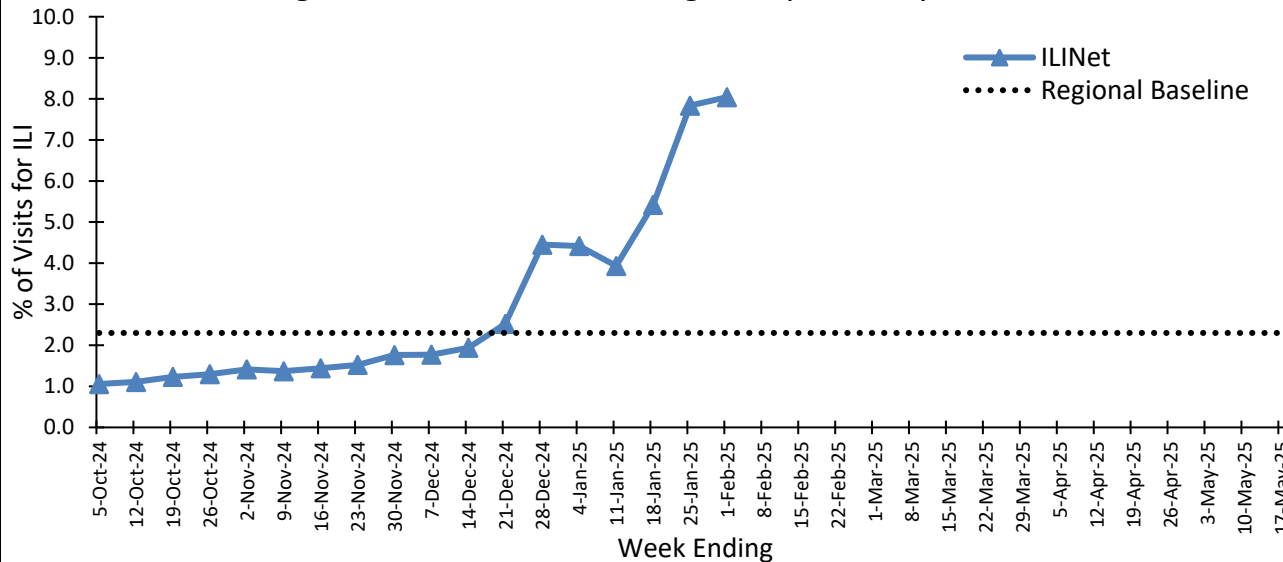
[‡]ILI is defined as fever (>100°F) and a cough and/or a sore throat.

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

	C	N	SE	SW
# of Reporters (298)	115	32	115	36
ILI %	5.6	12.2	10.2	9.1



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: 8.0% ↑

(Last week: 7.8%)

Regional Baseline*: 2.3%

A total of **12,567** patient visits due to ILI were reported out of **156,282** 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, **7.8%** of outpatient visits were due to ILI (Last week: 7.0%)

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)

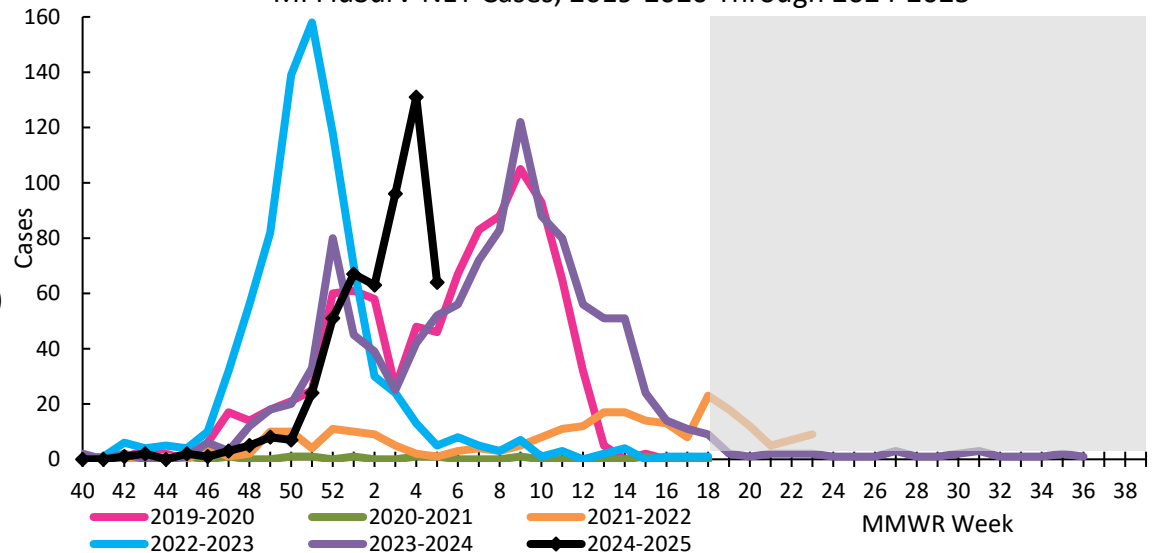
The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties. (Livingston County will be piloted during the 2024-2025 season)

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

	Pediatric	Adult	Total
Week 5* (Change from Previous Week)	0 (-15)	64 (-52)	64 (-67)
Cumulative Cases	50	475	525

*MI FSN cases for Week 5 are preliminary and may be underreported

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.

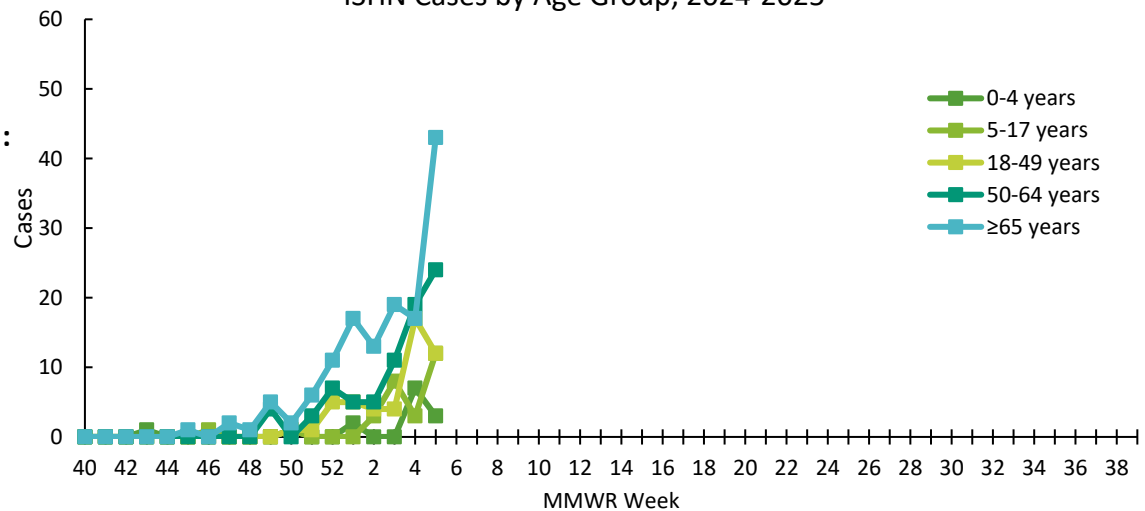
of Sites & Hospitalizations by Region during this time period:

Region	C	N	SE	SW	Total
Reporting Sites	4	1	0	5	10
Hospitalizations	17	4	0	73	94

Total # of Reported Hospitalizations for ISHN by Region:

Age Group	C	N	SE	SW	Total
0-4	0	0	0	14	14
5-17	0	0	0	28	28
18-49	4	2	0	43	49
50-64	18	6	0	54	78
65+	48	9	0	80	137
Total	70	17	0	219	306

ISHN Cases by Age Group, 2024-2025



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

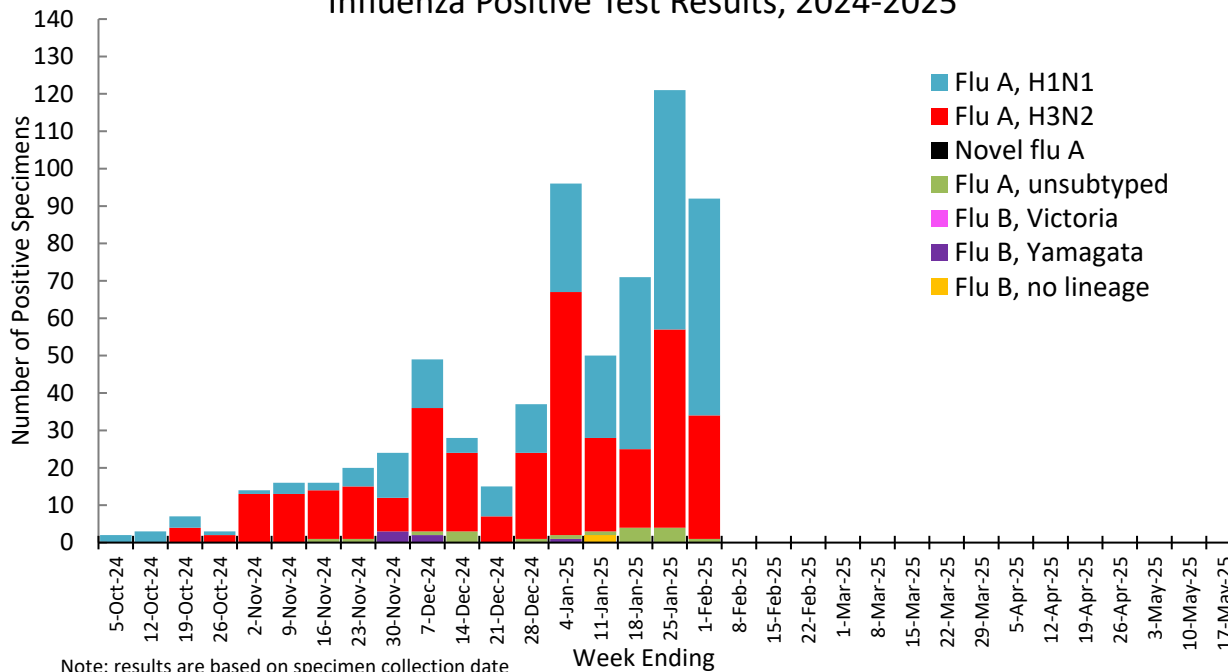
MDHHS Bureau of Laboratories (BOL) Virology Laboratory Data

There were **93** (16C, 1N, 20SE, 56SW) 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	43	31	85	130	289
Flu A H3N2	77	7	151	114	349
Novel flu A*	0	0	0	0	0
Flu A unsubtype	2	0	4	12	18
Flu B Victoria	2	0	3	1	6
Flu B Yamagata	0	0	0	0	0
Flu B no lineage	0	0	2	0	2
Total	124	38	245	257	664

Influenza Positive Test Results, 2024-2025



Note: results are based on specimen collection date
 Novel influenza A result include: H5, H1N1v, H1N2v, H7N2v, H1v, H3v
 One specimen was reported as having multiple subtypes reported during Week 5.

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Five (5) sentinel clinical labs (1SE, 1SW, 3C, 0N) reported for the week ending 2/1/2025.

Southeast Region		
Influenza A:	Very high ↑	↑ = Increase from previous week
Influenza B:	Low ↑	
SARS-CoV-2:	Elevated ↑	↓ = Decrease from previous week
Parainfluenza:	Low ↓	
RSV:	Moderate - high ↑	→ = Similar to previous week
Adenovirus:	Low ↓	
hMPV:	Low ↓	
Central Region		
Influenza A:	Very high ↑	
Influenza B:	Low →	
SARS-CoV-2:	Low - moderate ↓	
Parainfluenza:	Low ↑	
RSV:	Moderate - very high ↑	
Adenovirus:	Low - slightly elevated ↓	
hMPV:	Low ↓	
Southwest Region		
Influenza A:	Very high ↑	
Influenza B:	Sporadic - low ↑	
SARS-CoV-2:	Moderate - high ↓	
Parainfluenza:	Sporadic ↑	
RSV:	Elevated - moderate ↓	
Adenovirus:	Sporadic - low ↑	
hMPV:	Sporadic →	
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	

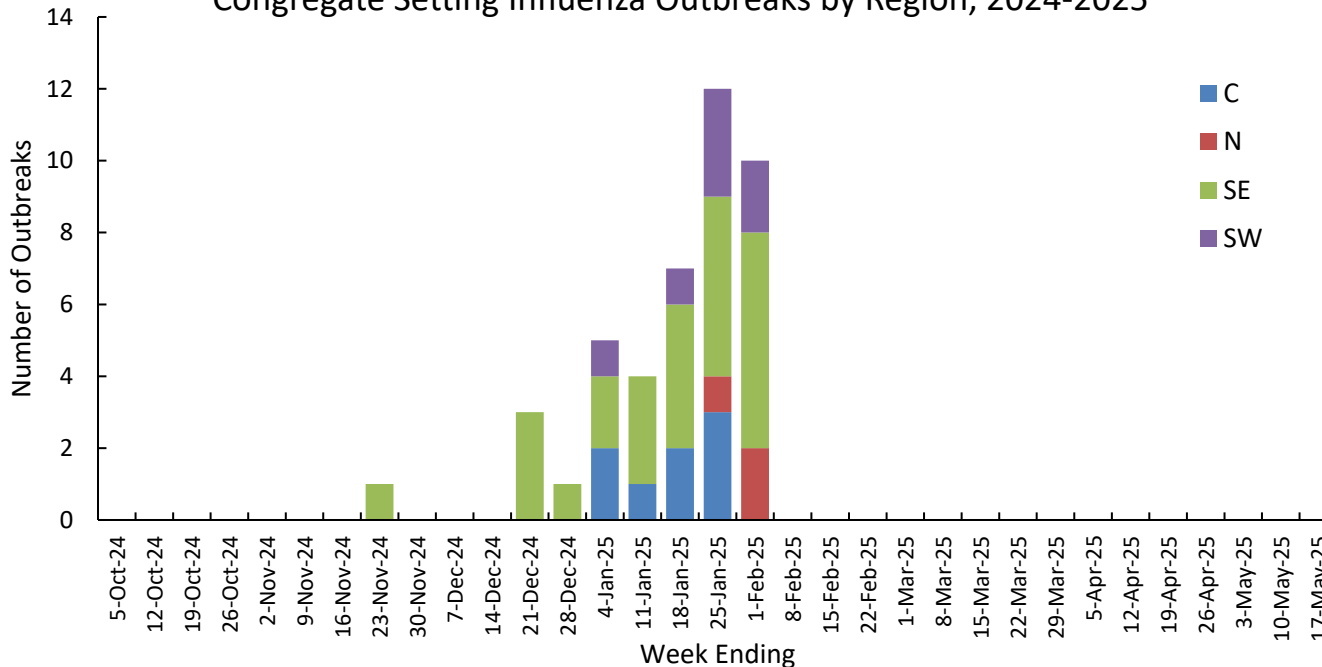
There were **10** (0C, 2N, 6SE, 2SW) confirmed influenza outbreaks reported to MDHHS during this time period. Influenza outbreaks for the 2024-2025 season are summarized below.

of Reported Influenza Outbreaks by Region

Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	0	0	3	1	4
Long-term Care / Assisted Living Facility	8	3	18	5	34
Healthcare Facility	0	0	1	0	1
Daycare	0	0	1	0	1
Homeless Shelter	0	0	1	0	1
Correctional Facility	0	0	1	1	2
Other	0	0	0	0	0
Total	8	3	25	7	43

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:

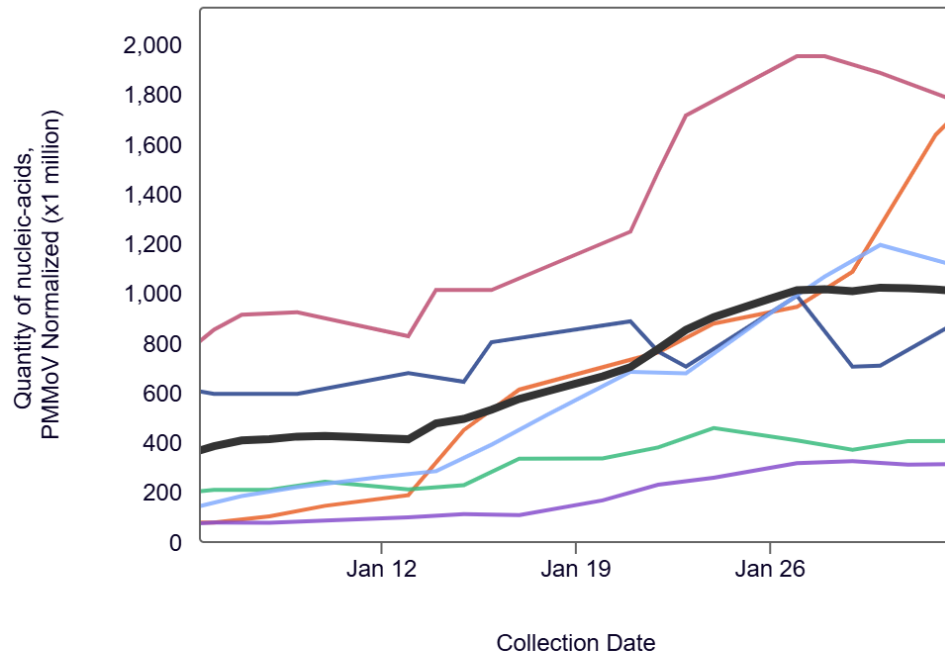
- Influenza Guidance for [Local Health Departments \(LHDs\)](#), [Healthcare Providers](#), and [Laboratories](#)

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 (1/5/25 - 2/1/25)



- All Selected Locations (Average)
- Mt. Pleasant, MI (Mt. Pleasant WRRF)
- Ann Arbor, MI (City of Ann Arbor Wastewater Treatment Plant)
- Jenison, MI (Grandville Clean Water Plant)
- Warren, MI (City of Warren Wastewater Treatment Plant)
- Traverse City, MI (Traverse City Regional Waste Water Treatment Plant)
- Jackson, MI (Jackson Wastewater Treatment Plant)

Influenza News Blast

- [Flu levels ‘very high’ and climbing in Michigan \(MLive\)](#)
- [Michigan flu, RSV, COVID surges wreak ‘havoc’ in Corewell emergency departments \(Detroit Free Press\)](#)
- [On the frontline against bird flu, egg farmers fear they’re losing the battle \(Michigan Public Radio\)](#)
- [Influenza surge overcrowding Michigan emergency rooms \(Detroit News\)](#)
- [Infectious Disease Roundup: 2/4/2025 \(LIL Science\)](#)
- [C.D.C. Posts, Then Deletes, Data on Bird Flu Spread Between Cats and People \(NYT\)](#)

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:

24 million – 41 million
flu illnesses

11 million – 18 million
flu medical visits

310,000 – 650,000
flu hospitalizations

13,000 – 65,000
flu deaths

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