



# Michigan Flu Focus

Weekly Influenza Surveillance Report

April 8, 2022

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Week Ending April 2, 2022 | WEEK 13

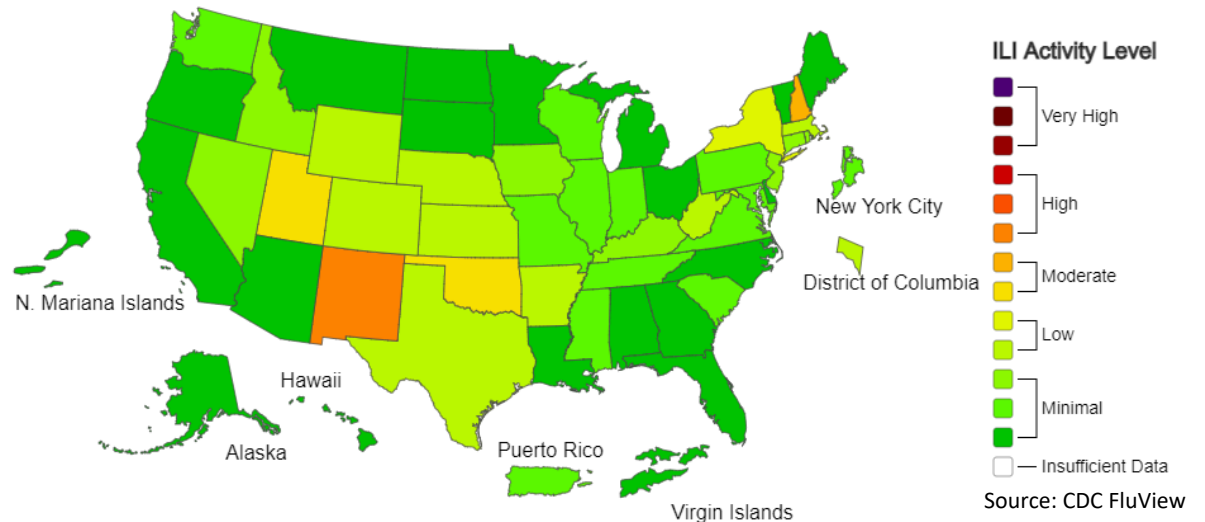
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*Data provided in this report are preliminary and will be updated as additional data is received*

## 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.  
2021-22 Influenza Season Week 13 ending Apr 02, 2022



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 2021-2022 influenza season

## Updates of Interest

### Detections of HPAI A(H5) viruses in birds

continue to occur in a growing number of states including Michigan. CDC considers the risk to the public to be low.

MDHHS has developed a set of guidelines and tools for health monitoring of potentially exposed people. Please visit [www.michigan.gov/cdinfo](http://www.michigan.gov/cdinfo), under "Communicable Diseases (A-Z)," Influenza topic.

## Seasonal Flu Vaccination Coverage

Michigan's goal is to vaccinate **4 million** residents during the 2021-2022 flu season.

As of **April 2, 2022** there have been **3,286,278** doses administered (**82.2%** towards goal) for the 2021-2022 flu season.

Please visit the Flu Vaccination Dashboard at [www.michigan.gov/flu](http://www.michigan.gov/flu) for more info.

## Influenza-associated Pediatric Mortality

Nationally, sixteen (16) influenza-associated pediatric deaths have been reported thus far for the 2021-2022 flu season.

No pediatric deaths have been confirmed by MDHHS for the 2021-2022 flu season to date.

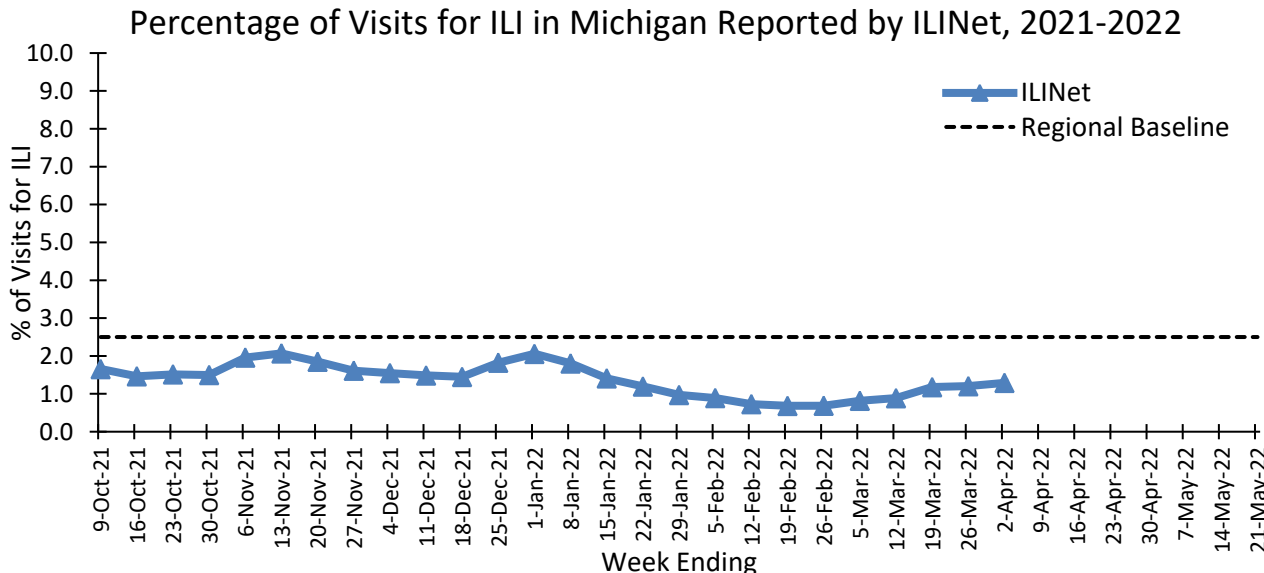
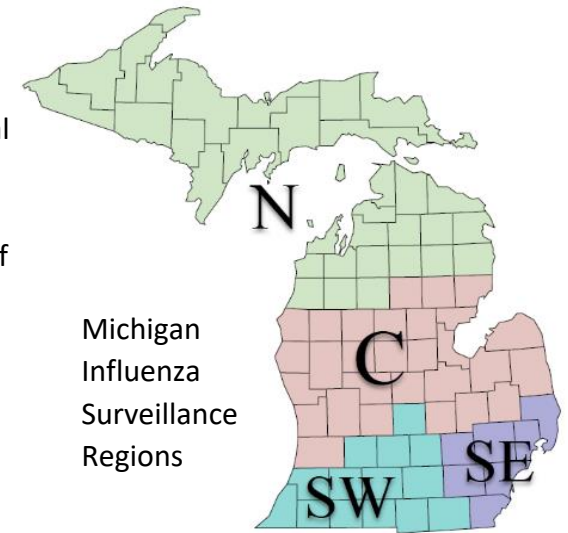
## U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

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<sup>‡</sup>). 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 for the 2021-2022 flu season.

<sup>‡</sup>ILI is defined as fever (>100°F) and a cough and/or a sore throat (new definition for the 2021-2022 season).

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

Region	C	N	SE	SW
No. of Reporters ( <b>151</b> )	51	18	54	28
ILI %	1.4	1.3	1.4	0.8



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: **1.3%**

(Last week: 1.2%)

Regional Baseline\*: 2.5%

A total of 921 patient visits due to ILI were reported out of 71,384 outpatient visits for Week 13.

\*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, **1.9%** of outpatient visits were due to ILI (Last week: 1.8%)

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

**Become an ILINET provider!**

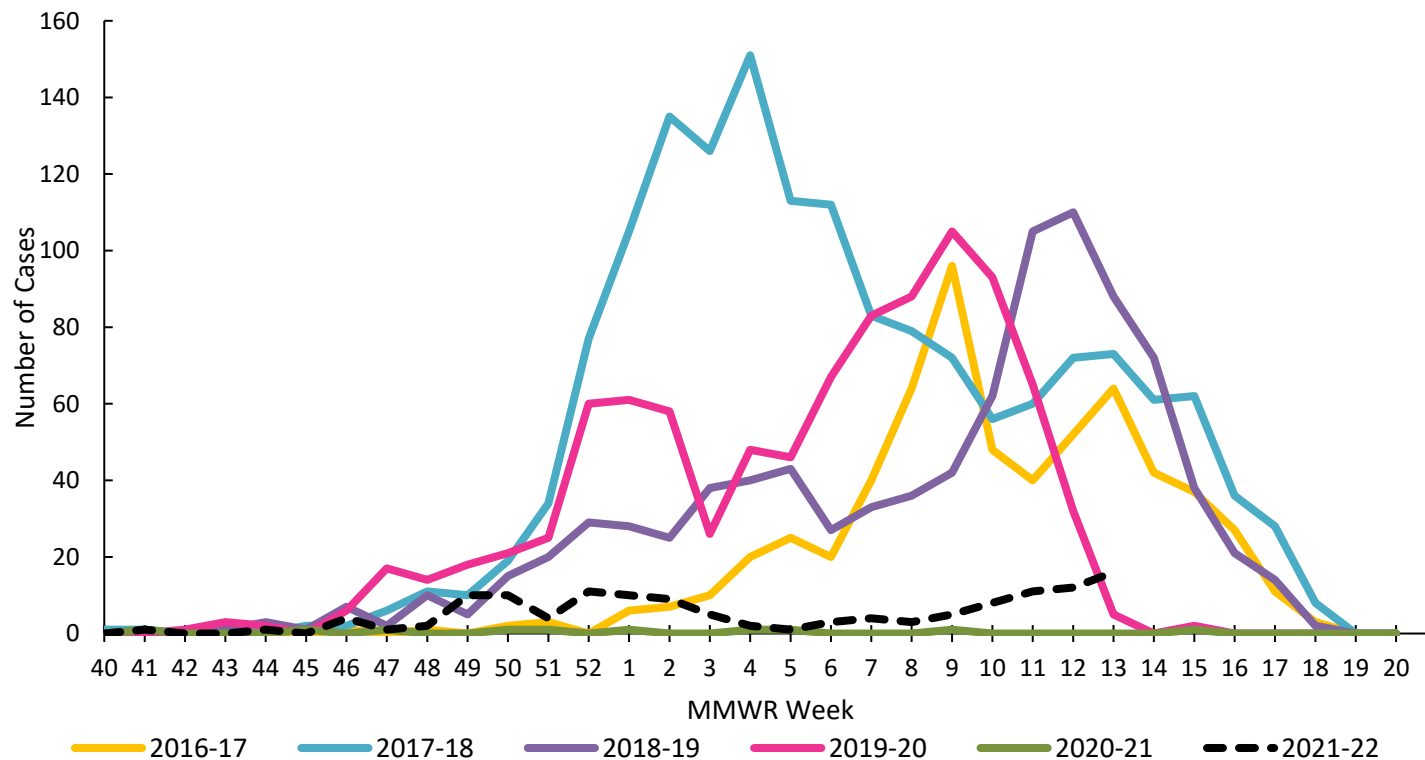
Contact Shelly Doebler at [DoeblerM@michigan.gov](mailto:DoeblerM@michigan.gov)

## 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 1<sup>st</sup> through April 30<sup>th</sup> each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were 16 (2 pediatric, 14 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1<sup>st</sup>, 133 (31 pediatric, 102 adult) influenza-associated hospitalizations were reported in the catchment area for the 2021-2022 season.

IHSP Cases, 2016-2017 through 2021-2022



Washtenaw County was added in the 2017-2018 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](mailto:KimS2@michigan.gov))

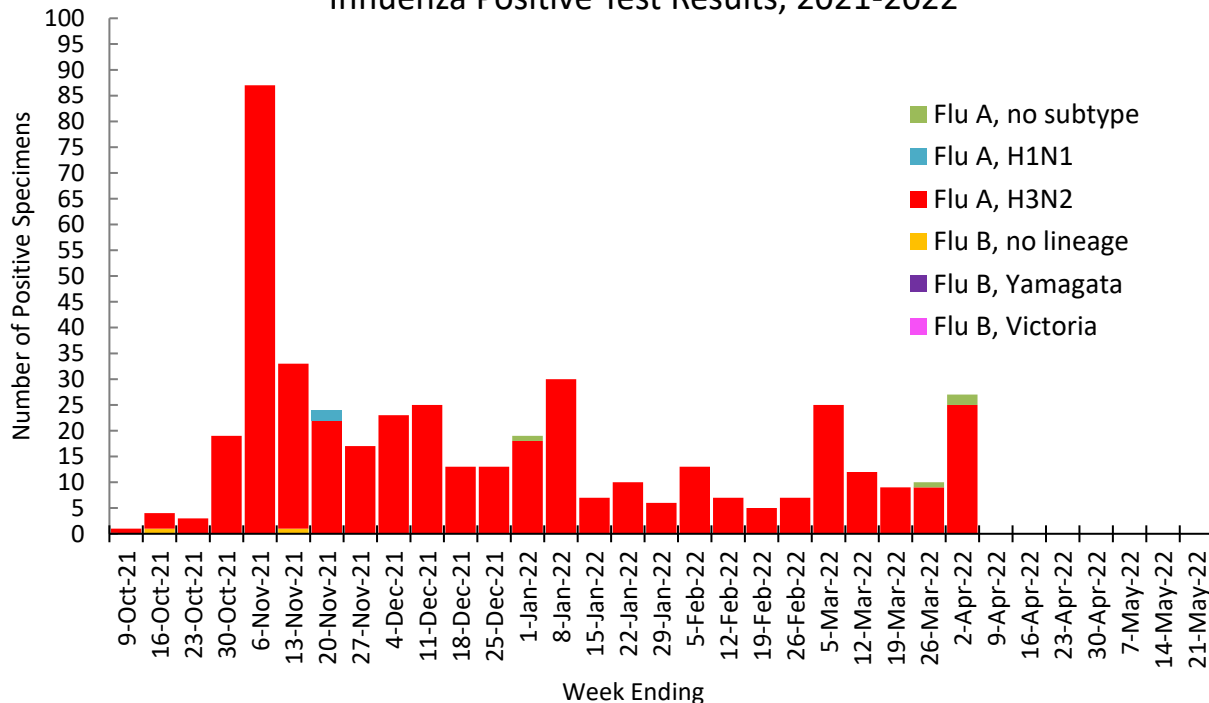
## MDHHS BOL Virology Laboratory Data

There were 27 (0C, 0N, 9SE, 18SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2021-2022 season are summarized below.

# of Positive Influenza Virus Results by Region

	C	N	SE	SW	Total
H1N1	0	0	2	0	2
H3N2	117	21	209	94	441
Infl B	0	0	2	0	2
<b>Total</b>	<b>117</b>	<b>21</b>	<b>213</b>	<b>94</b>	<b>445</b>

Influenza Positive Test Results, 2021-2022



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

Nine (9) sentinel clinical labs (2SE, 1SW, 5C, 1N) reported for the week ending 04/02/2022

SE Region	
Influenza A:	moderate
Influenza B:	sporadic
Parainfluenza:	low
RSV:	low
Adenovirus:	slightly elevated
hMPV:	elevated
Central Region	
Influenza A:	variable - moderate
Influenza B:	sporadic – slightly elevated
Parainfluenza:	low
RSV:	sporadic – low
Adenovirus:	low
hMPV:	elevated
SW Region	
Influenza A:	moderate
Influenza B:	no activity
Parainfluenza:	no activity
RSV:	sporadic – low
Adenovirus:	sporadic – low
hMPV:	low
North Region	
Influenza A:	low
Influenza B:	low
Parainfluenza:	sporadic
RSV:	no activity
Adenovirus:	sporadic
hMPV:	sporadic – low

There was 1 (0C, 1N, 0SE, 0SW) influenza outbreak reported to MDHHS during this time period. Influenza outbreaks for the 2021-2022 season are summarized below.

**# of Influenza Outbreaks by MI Region**

Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	3	2	1	2	8
Long-term Care / Assisted Living Facility	9	1	0	2	12
Healthcare Facility	0	0	0	0	0
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	0	0	0	0	0
Other	0	0	0	0	0
<b>Total</b>	<b>12</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>20</b>

### Did you know?

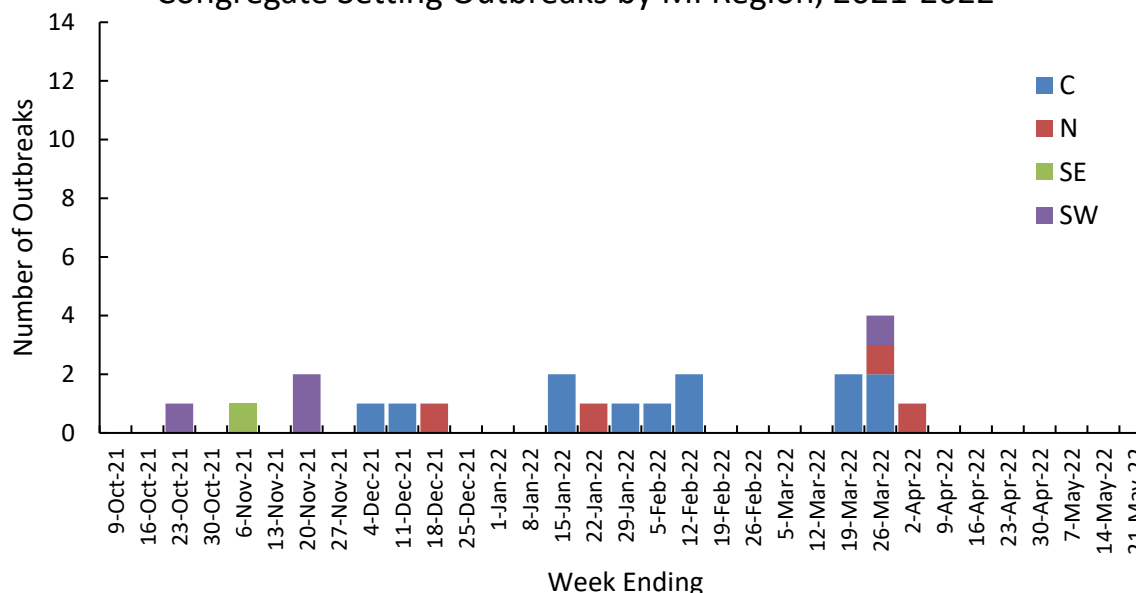
Congregate setting outbreaks of viral respiratory illness are required to be reported to your local health department? See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

Note: Data are reported on laboratory confirmed influenza outbreaks. For information on outbreaks exclusively associated with COVID-19, please visit the MDHHS Covid-19 webpage located under Additional Resources on the last page. 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 Week 13.**

**Congregate Setting Outbreaks by MI Region, 2021-2022**



## CDC Reports Avian Flu Continues to Increase Among Domestic and Wild Bird Flocks, Risk to Humans Remains Low

In addition to the country-wide increases in influenza A viruses, health officials are also tracking the spread of avian influenza. Avian influenza can be highly contagious and pathogenic among domestic and wild bird flocks and has the potential to spread to humans, with similar symptoms to other influenza viruses.

Highly Pathogenic Avian Influenza (HPAI) has been detected throughout the country and is now present in Michigan in backyard (non-commercial) flocks as well as among several separate wild flocks (Canada geese, snowy owls, and swans).

The risk of spread to humans remains low, and only 1 human case has been [recently detected](#) in the United Kingdom (the U.S. remains free of documented human cases). Despite the low risk to humans and strong measures taken to contain the disease, CDC recommends vigilance, especially for those who are around bird flocks or when HPAI is rapidly spreading. Steps the public can take to prevent contracting avian influenza include proper hand washing, avoiding direct contact with wild birds, and disinfecting hands and clothing after contact with birds (domestic or wild). It is safe to eat properly handled and cooked poultry products. Information on avian influenza testing, reporting, infection control, and treatment can be found [here](#).

As of April 2, 2022, Centers for Disease Control and Prevention (CDC) shows influenza activity is increasing in the northeast and northwest regions while declining slightly in the central and south-central regions of the United States. The most common influenza virus detected is A(H3N2). CDC recommends annual influenza vaccination for everyone aged 6 months and older and urges providers to continue to offer vaccination while influenza remains present in local communities. Flu vaccines are widely available. Individuals can find a local vaccination location at: <https://www.vaccines.gov/>.

## Influenza News Blast

- [CDC Bird Flu Current Situation Summary](#)
- [What We Know About the Deadliest U.S. Bird Flu Outbreak in 7 Years](#)
- [CDC Provides Interim Estimates of Seasonal Influenza Vaccine Effectiveness](#)
- [CDC Study Shows Flu Vaccination Prevents Severe Flu Illness in U.S. Children](#)
- [World Health Organization \(WHO\) Influenza Update](#)
- [Meta-analysis Shows Low Incidence of Influenza and SARS-CoV-2 Coinfection](#)
- [Study Identifies Racial and Ethnic Disparities in Severe Flu Outcomes](#)
- [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](#)
- [USDA Animal and Plant Health Inspection Service](#)

## Influenza Burden Estimates

The Centers for Disease Control and Prevention (CDC) have released [preliminary in-season burden estimates](#) for the 2021-2022 flu season.

CDC estimates that, from **October 1, 2021 through April 2, 2022** there have been:

- **3.8 million – 6.4 million** flu illnesses
- **1.8 million – 2.9 million** flu medical visits
- **38,000 – 77,000** flu hospitalizations
- **2,300 – 6,400** flu deaths

Note: CDC was not able to calculate the cumulative burden of flu for the 2020-2021 flu season, due to historically low numbers of flu.

More information on the 2020-2021 flu season burden estimates is available [here](#).

## MDHHS Contributors

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