



Michigan Flu Focus

Weekly Influenza Surveillance Report

February 25, 2022

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Week Ending February 19, 2022 | WEEK 7

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

Updates of Interest

The United States Department of Agriculture's (USDA) Animal and Plant Health Inspection Service (APHIS) has confirmed the presence of highly pathogenic avian influenza (HPAI) in a non-commercial backyard flock in Kalamazoo County, Michigan.

Please see the following link to the press release from the Michigan Department of Agriculture and Rural Development (MDARD) for more info:

<https://www.michigan.gov/mdard/about/media/pressreleases/2022/02/24/highly-pathogenic-avian-influenza-detected-in-michigan-backyard-flock>

Seasonal Flu Vaccination Coverage

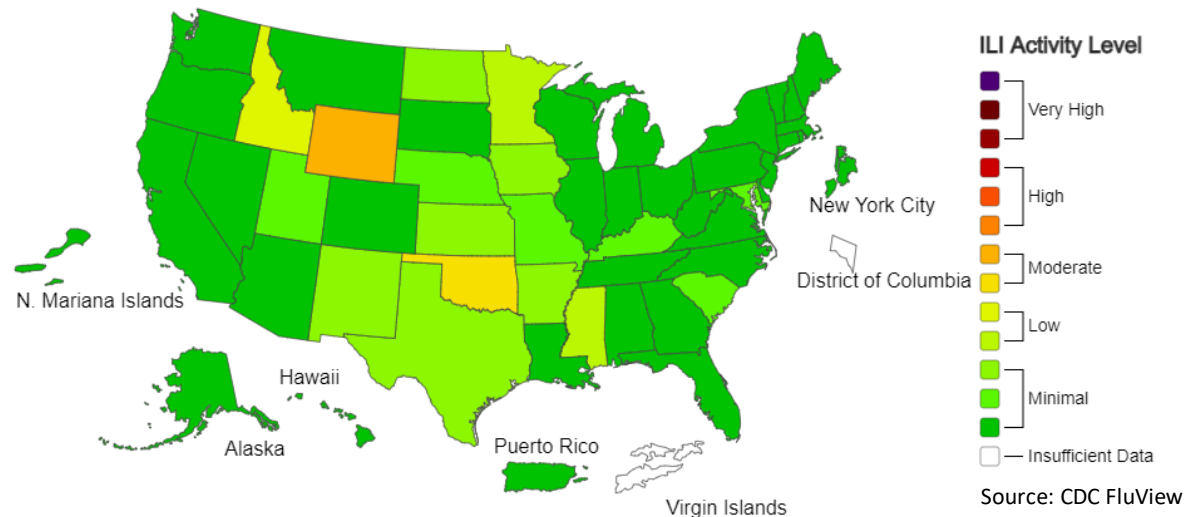
Michigan's goal is to vaccinate **4 million** residents during the 2021-2022 flu season.

As of **February 19, 2022** there have been **3,092,280** doses administered (**79.7%** towards goal) for the 2021-2022 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.
2021-22 Influenza Season Week 7 ending Feb 19, 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

Influenza-associated Pediatric Mortality

Nationally, six (6) 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.

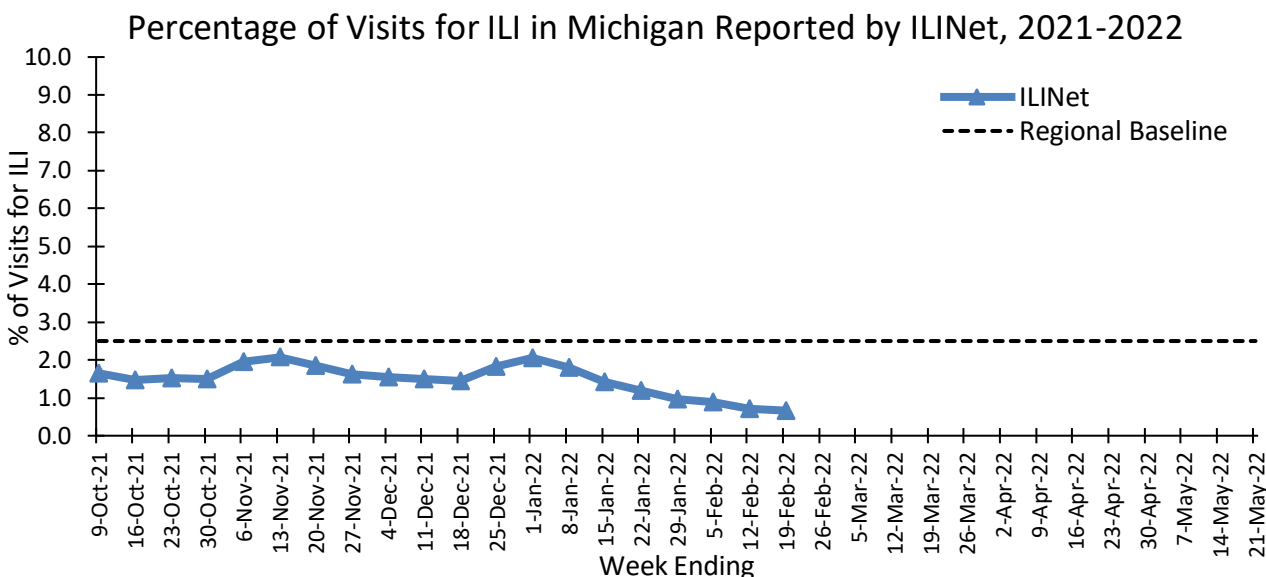
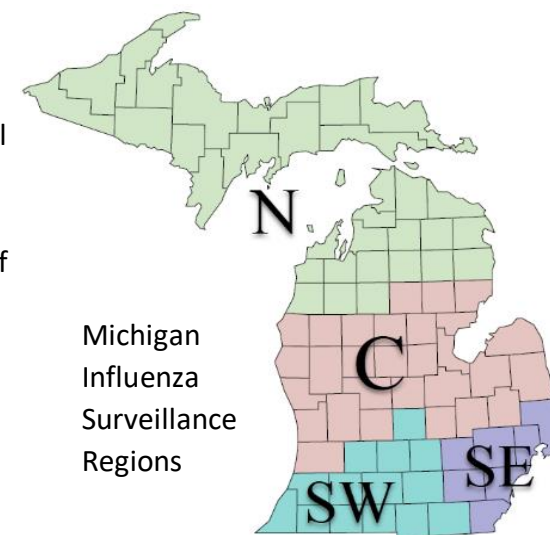
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

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[‡]). 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.

[‡]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 (151)	51	17	54	29
ILI %	1.0	1.3	0.4	0.6



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: 0.7%
 (Last week: 0.7%)
 Regional Baseline*: 2.5%

A total of 431 patient visits due to ILI were reported out of 65,088 outpatient visits for Week 7.

*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, **1.5%** of outpatient visits were due to ILI (Last week: 1.5%)
 This is **below** the national baseline of 2.5%

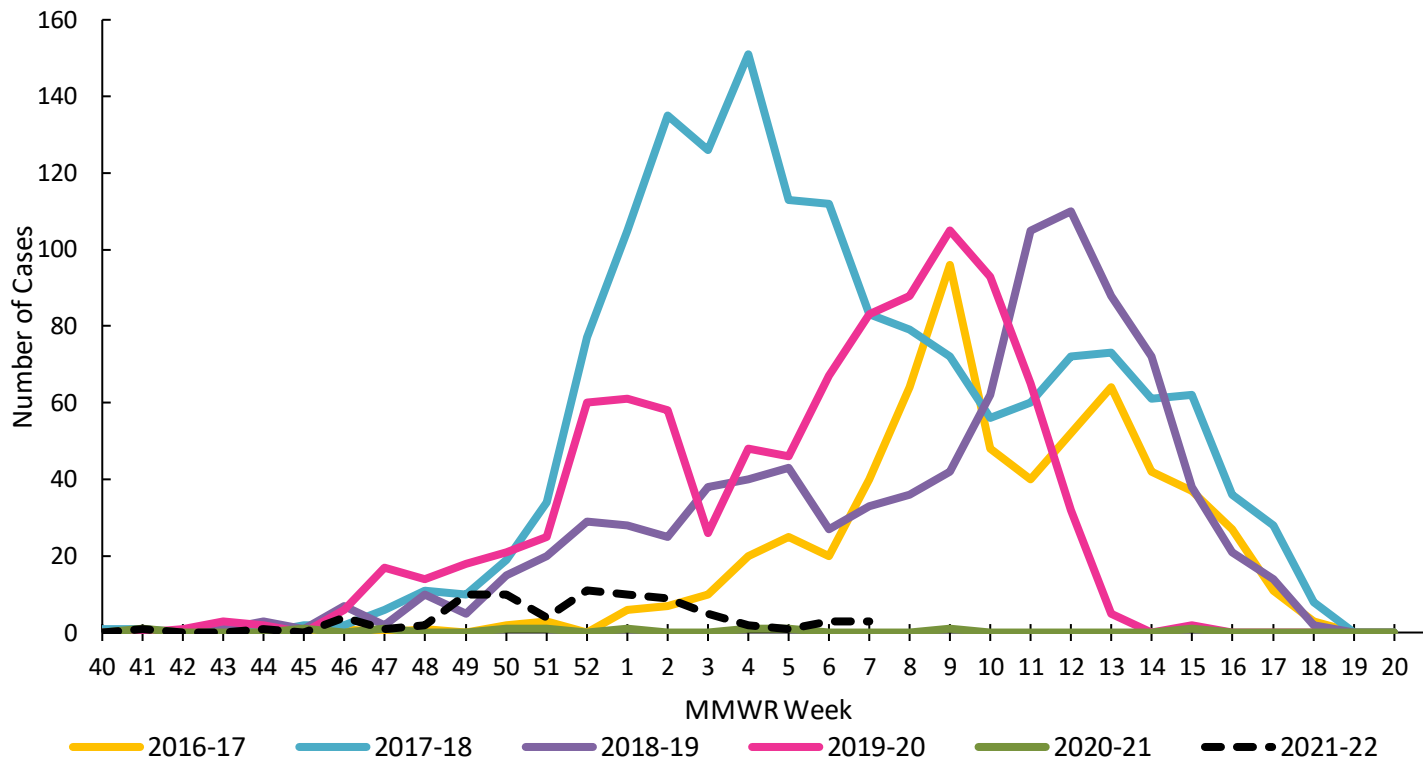
Become an ILINET provider!
 Contact Shelly Doebler at DoeblerM@michigan.gov

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 3 (0 pediatric, 3 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1st, 77 (18 pediatric, 59 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)

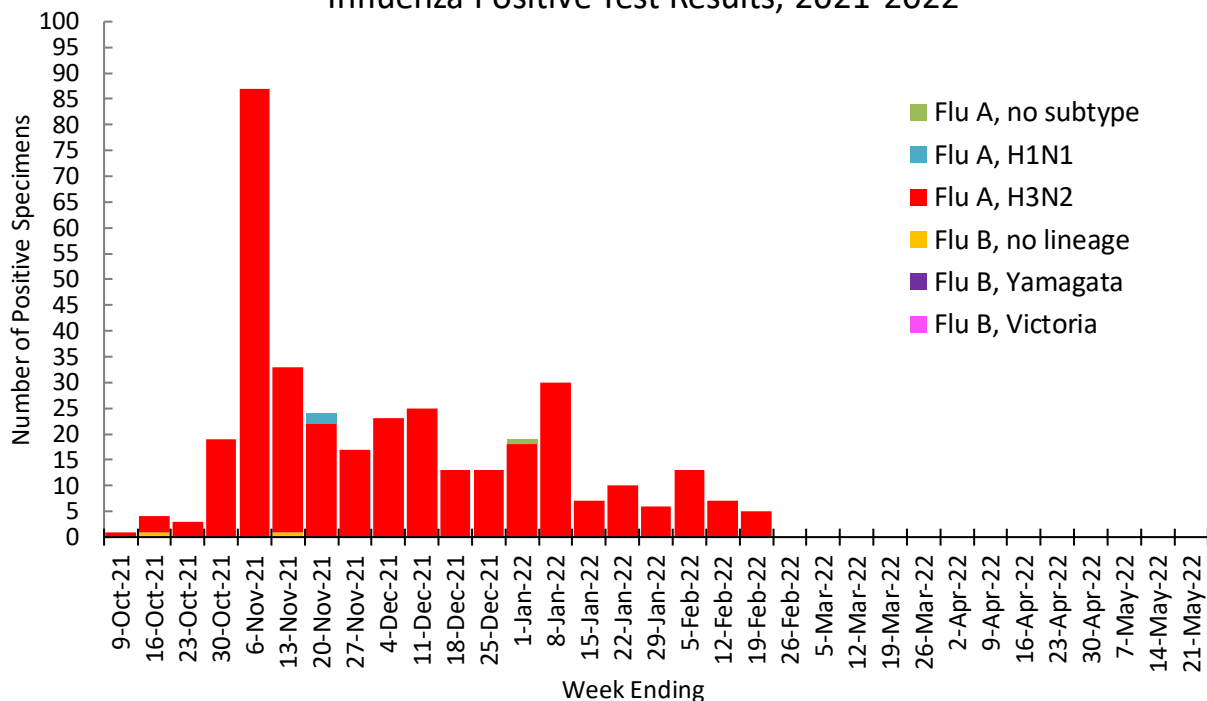
MDHHS BOL Virology Laboratory Data

There were 5 (1C, 0N, 3SE, 1SW) 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	88	21	177	68	354
Infl B	0	0	2	0	2
Total	88	21	181	68	358

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 02/19/2022

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

There were 0 influenza outbreaks 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	2	1	1	2	6
Long-term Care / Assisted Living Facility	6	1	0	1	8
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
Total	8	2	1	3	14

Did you know?

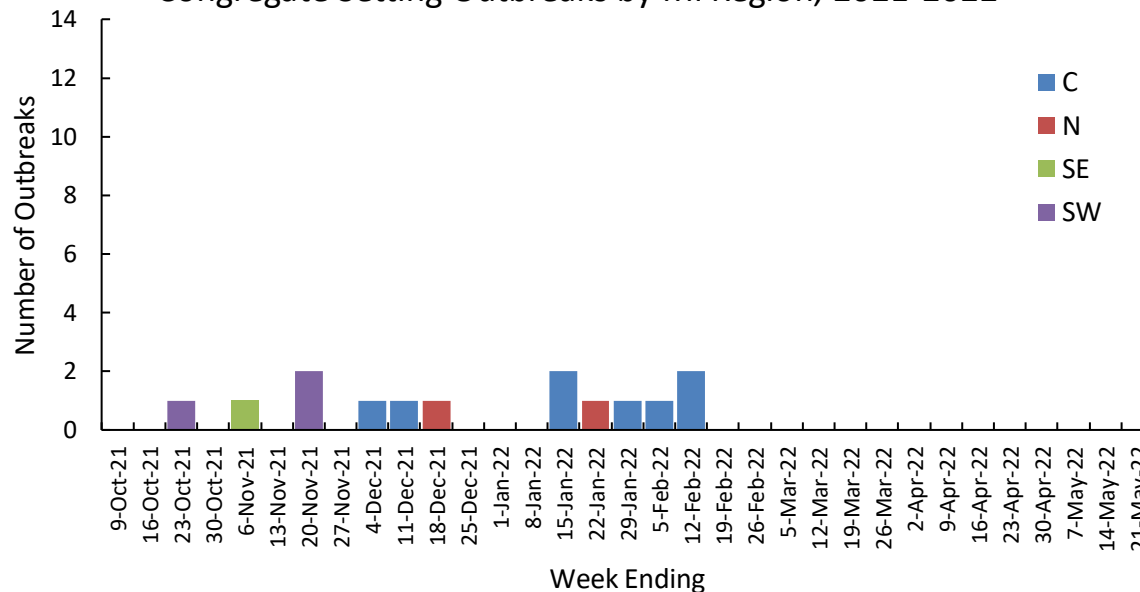
Congregate setting outbreaks of viral respiratory illness are required to be reported to your local health department? See:

- [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 7.

Congregate Setting Outbreaks by MI Region, 2021-2022



CDC Recommends: Vaccinate As Long As Influenza Continues To Be a Threat in Your Community

As of February 18, 2022, the Centers for Disease Control and Prevention (CDC) shows isolated areas of increasing influenza activity with overall fluctuations across the United States. CDC recommends annual influenza vaccination for everyone aged 6 months and older and urges providers to continue to offer flu vaccination while influenza remains a threat in our communities.

Disparities in flu vaccination coverage remain highest among non-Hispanic Black, Hispanic or Latino, and American Indian or Alaska Native adults, according to the CDC. According to the [CDC Weekly Flu Vaccination Dashboard](#), preliminary flu vaccination coverage for non-Hispanic Black children (40.1%) is 11.3 percentage points lower compared to non-Hispanic white children (51.4%) for the 2021-2022 flu season. Additionally, preliminary coverage for non-Hispanic black (29.6%), Hispanic (29.6%), and American Indian/Alaskan Native non-Hispanic adults (31.6%) is lower than non-Hispanic White adults (45.6%) for the 2021-2022 flu season.

Since being launched in 2020, CDC's [Partnering for Vaccine Equity](#) program has partners in all 50 states with the aim to reduce vaccine inequity. Partner activities include:

- Using culturally and linguistically appropriate messaging through trusted messengers and providers promoting vaccine education and outreach
- Understanding and mitigating vaccine misinformation
- Enlisting effective strategies aimed at increasing vaccine confidence, access, and rates in communities of focus

The program aims to build a national network of partners working to improve equity among disproportionately affected populations across all adult-recommended vaccines. Providers can utilize these activities within their own practices to reduce disparities within their own communities.

Vaccines are widely available, and individuals can find a location to get a flu vaccine at www.vaccines.gov.

Influenza News Blast

- [World Health Organization \(WHO\) Influenza Update](#)
- [Study: Identifies Racial and Ethnic Disparities in Severe Flu Outcomes](#)
- [Pediatric Flu Deaths During 2019-2020 Reach New High](#)
- [Mandatory Influenza Vaccination for Healthcare Personnel Honor Roll](#)
- [Flu and Tdap Vaccination Coverage Among Pregnant Women – United States, April 2021](#)
- [CDC Program Engages Partners to Promote Vaccine Equity Among Racial and Ethnic Minority Groups](#)
- [CDC 2021-2022 Flu Vaccination Campaign Kickoff](#)

Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS COVID-19 Outbreak Reporting](#)
- [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](#).

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 February 19, 2022** there have been:

- **2.4 million – 4 million** flu illnesses
- **1.1 million – 1.8 million** flu medical visits
- **23,000 – 47,000** flu hospitalizations
- **1,400 – 3,900** 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](#).

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