



# RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 50, Ending December 17, 2022

Wisconsin Department of Health Services | Division of Public Health

Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

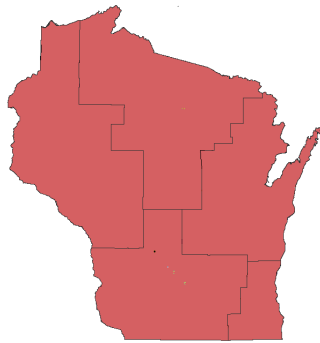
[www.dhs.wisconsin.gov/dph/bcd.htm](http://www.dhs.wisconsin.gov/dph/bcd.htm) | [dhsdphbcd@dhs.wi.gov](mailto:dhsdphbcd@dhs.wi.gov)



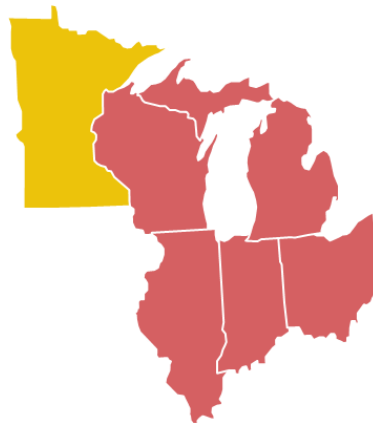


# INFLUENZA-LIKE ILLNESS (ILI) ACTIVITY

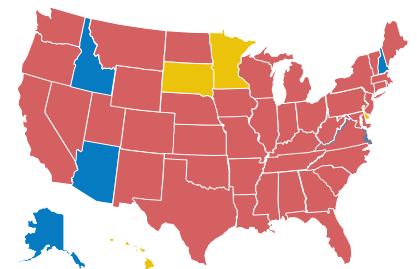
## STATE OF WISCONSIN



## REGION V OF US (WI, MN, IL, MI, OH, IN)



## UNITED STATES



● ILI: HIGH LEVELS    ● ILI: MODERATE LEVELS    ● ILI: BELOW BASELINE    ● ILI: INSUFFICIENT DATA

## AT-A-GLANCE:

### Predominant Viruses of the Week:

Influenza A is the predominant virus this week.

### Current Alerts:

- Outpatient influenza-like illness activity and the percent positive influenza lab tests are leveling off.
- One influenza-associated pediatric death was reported this week. A second influenza-associated pediatric death will be reported in next week's report.
- Additional data on SARS-CoV-2 (the virus causing COVID-19) trends in Wisconsin can be found at: <https://www.dhs.wisconsin.gov/covid-19/data.htm>

## INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

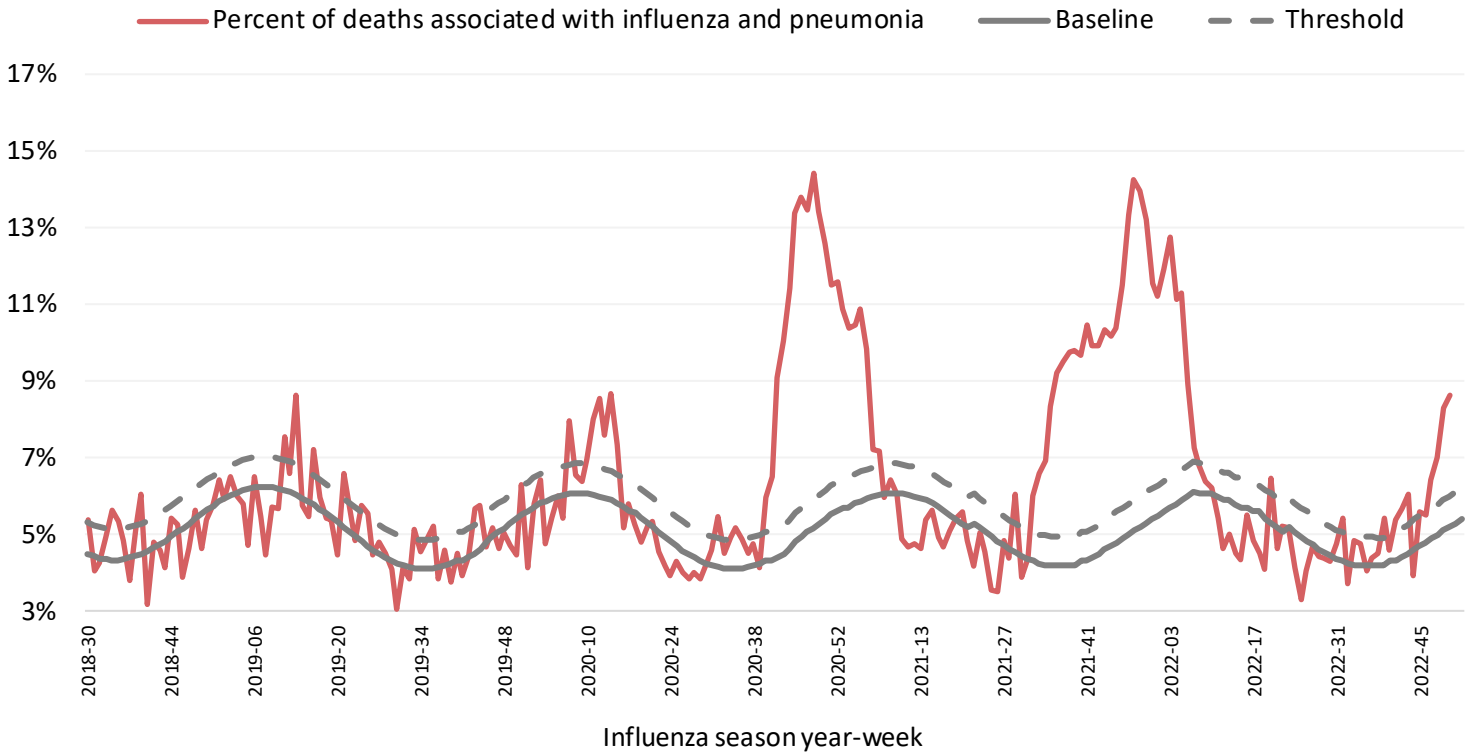
	Week 50, 2022	October 1, 2021 to present
<b>Wisconsin</b>	1	1
<b>Nationwide</b>	17	47

For National US influenza surveillance statistics visit: [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/)

# INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

## Influenza and Pneumonia Deaths, Wisconsin

**Influenza- and pneumonia-associated deaths by influenza season year and week, Wisconsin**



**Influenza- and pneumonia-associated deaths by most recent 3 week period.**

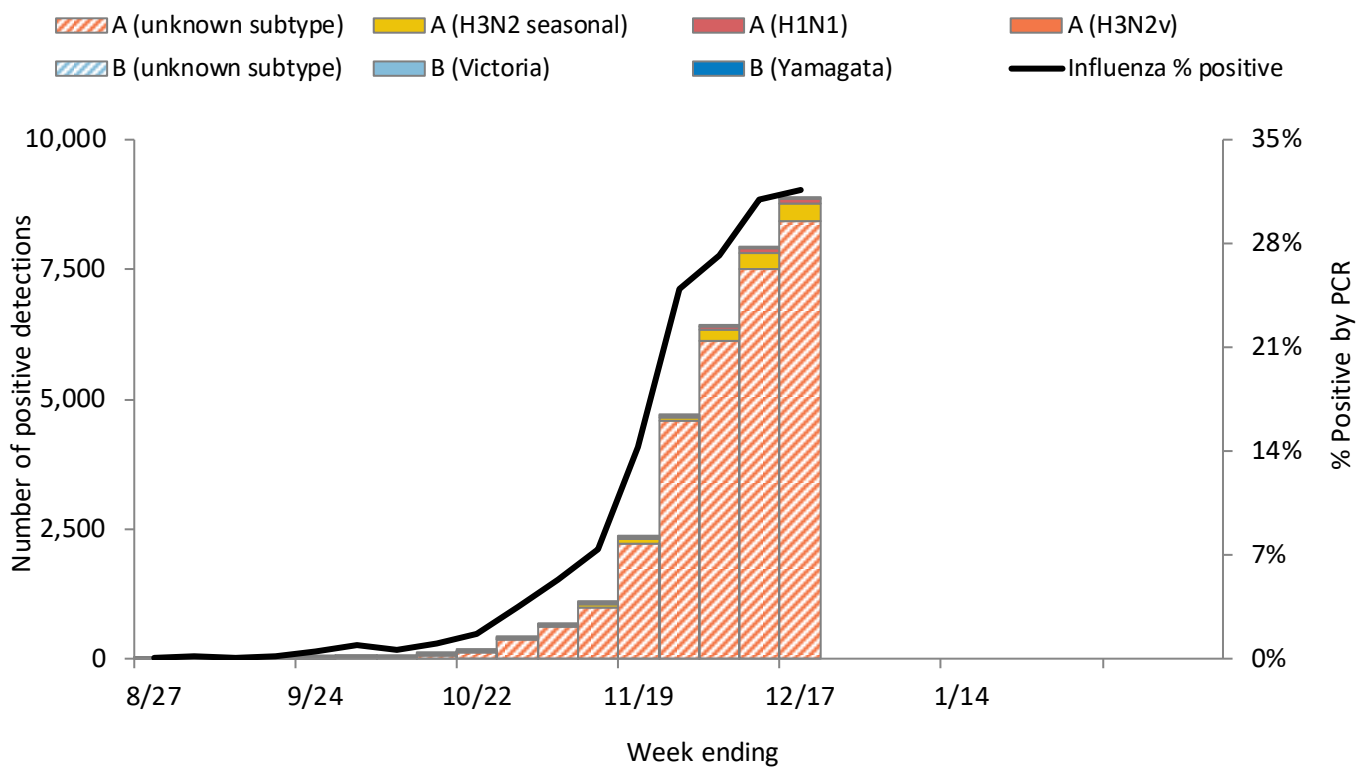
Influenza season week	Influenza-associated deaths (I)	Pneumonia-associated deaths (P)	Percent I+P of all deaths	Baseline I+P of all deaths	Threshold I+P of all deaths
48	13	86	7.0%	5.0%	6.4%
49	15	96	8.3%	5.1%	6.5%
50 Preliminary Data	11	78	8.6%	5.2%	6.6%

Data source: [DPH, Office of Health Informatics](#)



# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

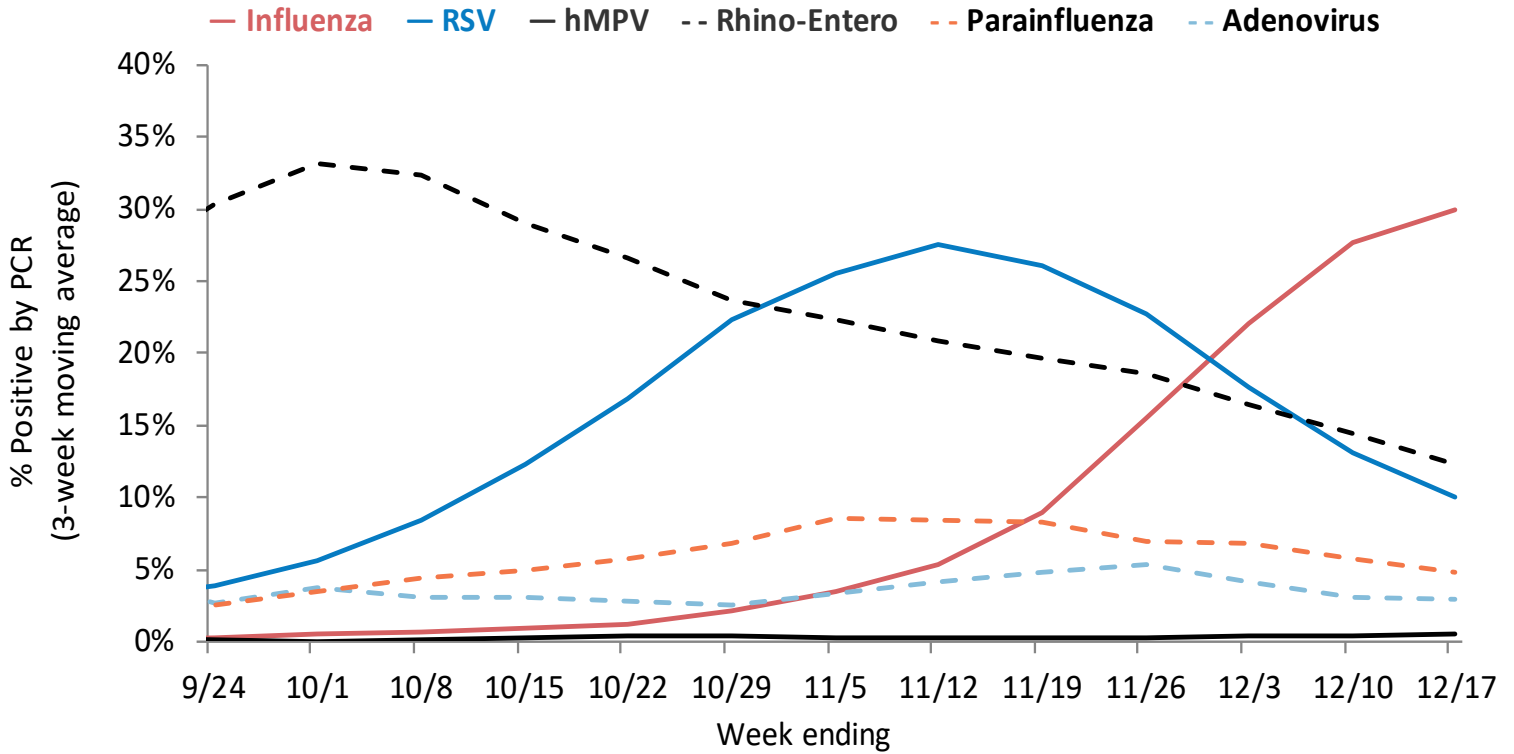
## Wisconsin positive influenza results and subtypes by PCR



## Cumulative number of positive influenza PCR tests by subtype October 1, 2022 to present

	A (2009 H1N1)	Influenza A: A (H3N2)	Influenza A: 99% A (Unknown)	B (Victoria)	Influenza B: B (Yamagata)	Influenza B: 1% B (Unknown)	Total
Total positive (n)	373	1,151	31,110	1	0	191	32,826
% of total positive	1%	4%	95%	0%	0%	1%	100%

# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES

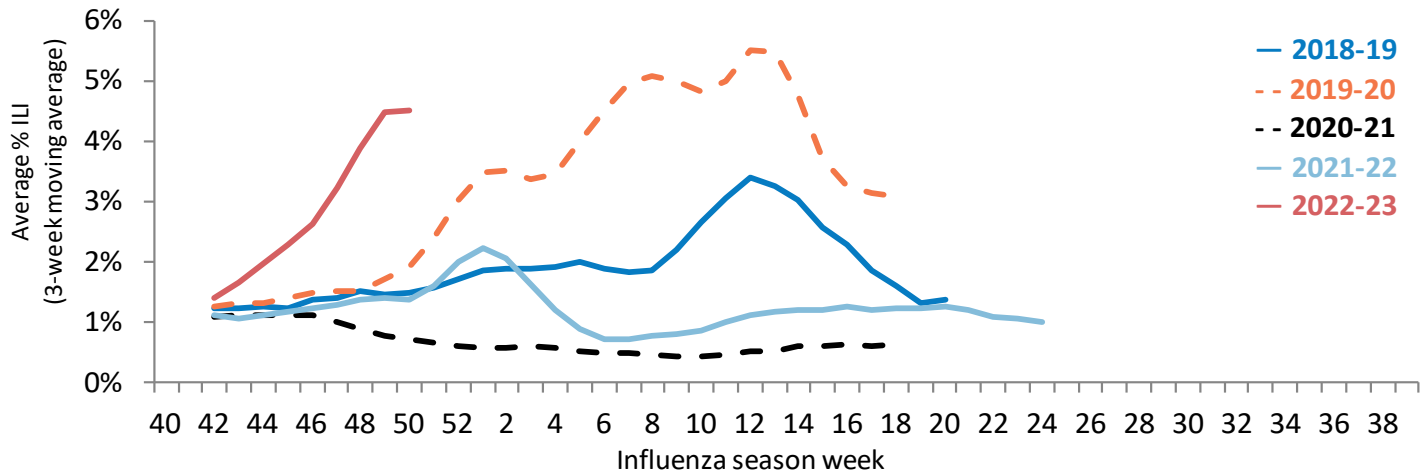


**Week 50, Ending on December 17, 2022**

Respiratory virus	Tested	Positive (n)	Positive (%)	Influenza A			Influenza B		
				H3N2	2009 H1N1	Unknown	Victoria	Yamagata	Unknown
Influenza	28111	8880	31.6%	349	89	8420	0	0	13
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenza 1	Parainfluenza 2	Parainfluenza 3	Parainfluenza 4		
Parainfluenza	1489	54	3.6%	25	2	8	19		
Respiratory virus	Tested	Positive (n)	Positive (%)	CoV 229E	CoV OC43	CoV NL63	CoV HKU1		
Coronavirus (seasonal)	180	10	5.6%	0	3	1	6		
Respiratory virus	Tested		Positive (n)		Positive (%)				
RSV	19081		1407		7.4%				
Human metapneumovirus	1417		10		0.7%				
Rhino-enterovirus	1428		163		12.2%				
Adenovirus	180		8		4.4%				

# WISCONSIN STATE SUMMARY

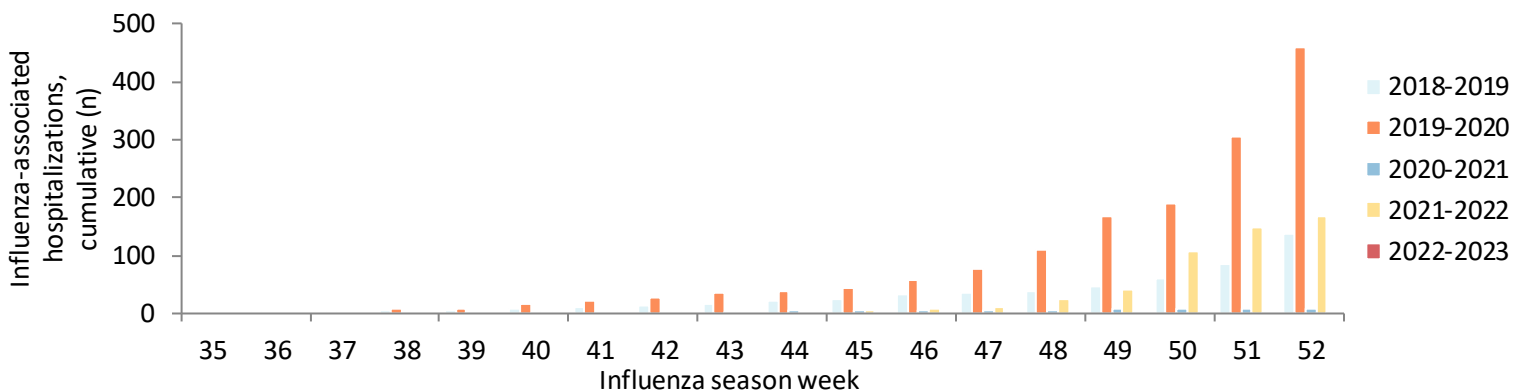
## ILI activity trend analysis by influenza season, Wisconsin



### Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System October 1, 2022 to present (Hospitalization data will be updated at a later date)

Age group (years)	Total reported (n)	Influenza subtype					Admitted to ICU	Required mechanical ventilation	Pregnant	Postpartum (≤6 weeks)
		A (2009 H1N1)	A (H3N2)	A (Unknown)	B	Not reported				
<1	0	0	0	0	0	0	0	0		
1-4	0	0	0	0	0	0	0	0		
5-17	0	0	0	0	0	0	0	0		
18-49	0	0	0	0	0	0	0	0	0	0
50-64	0	0	0	0	0	0	0	0		
65+	0	0	0	0	0	0	0	0		
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

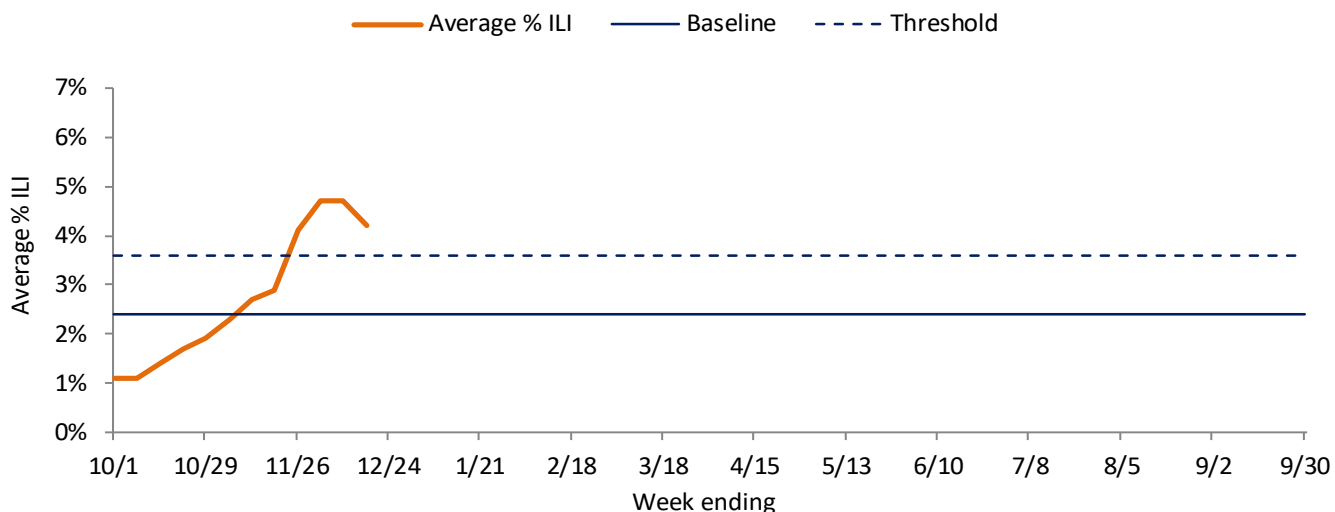
### Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin



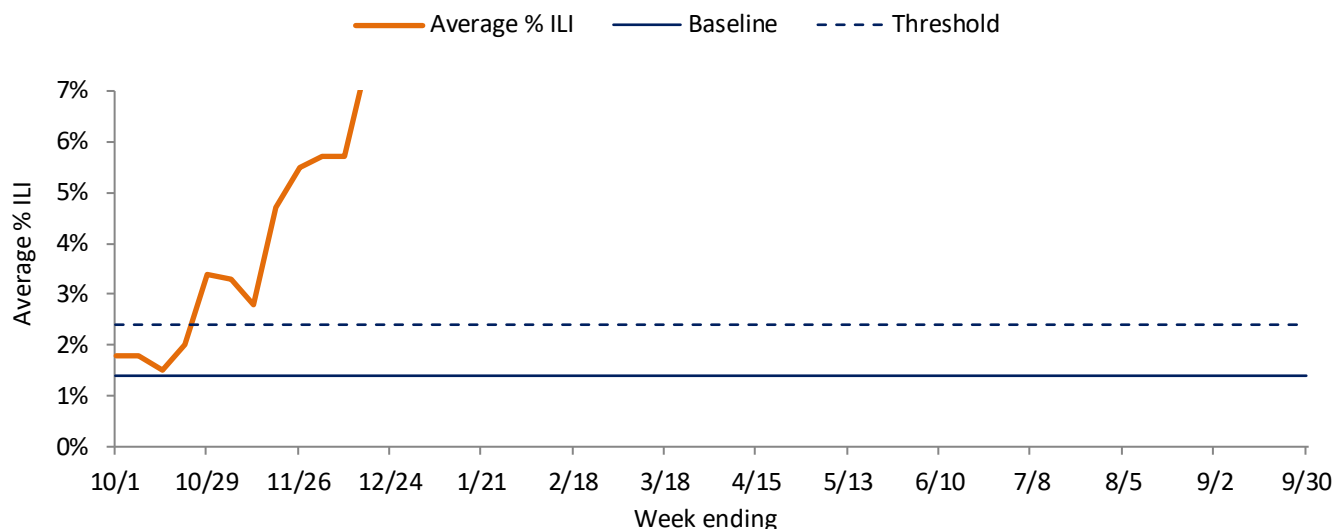
**The 2020–2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic.** As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.

# ILI ACTIVITY TREND ANALYSIS

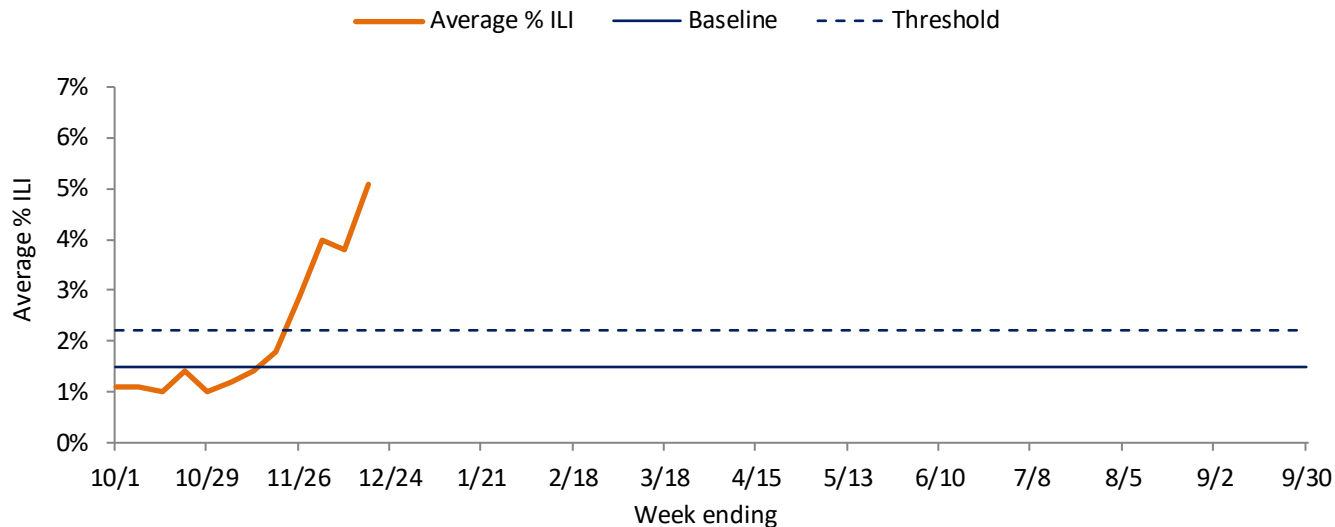
## Wisconsin



## Northeastern Region

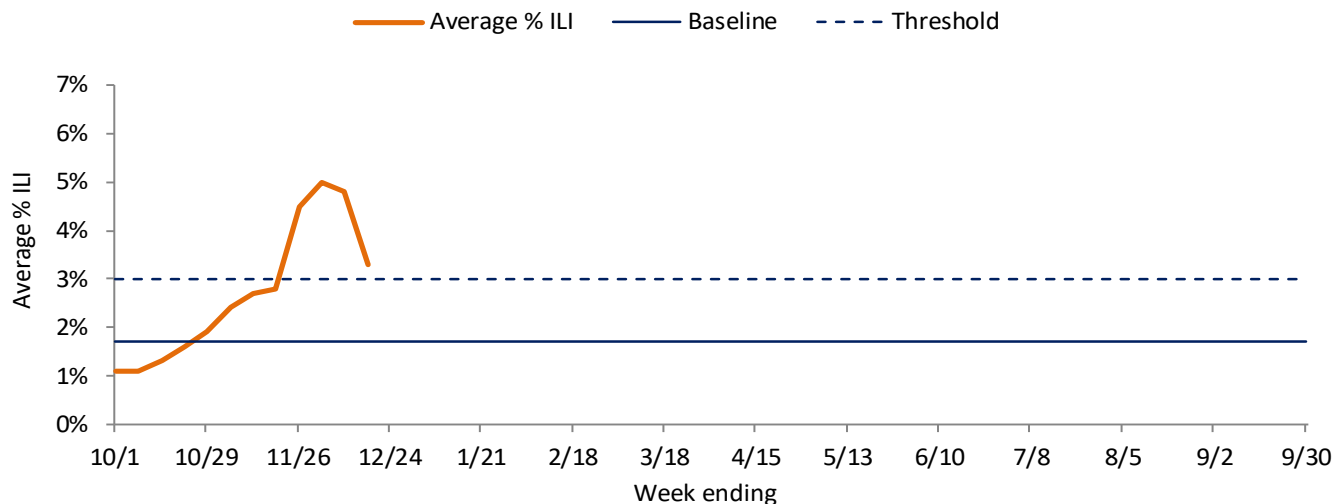


## Northern Region

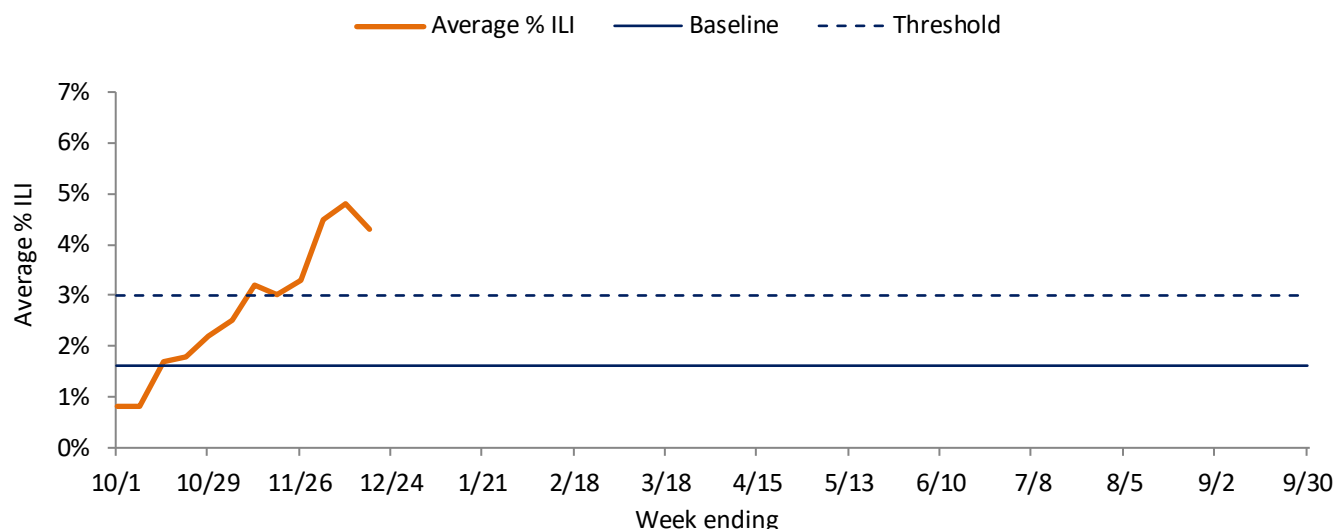


# ILI ACTIVITY TREND ANALYSIS (CONTINUED)

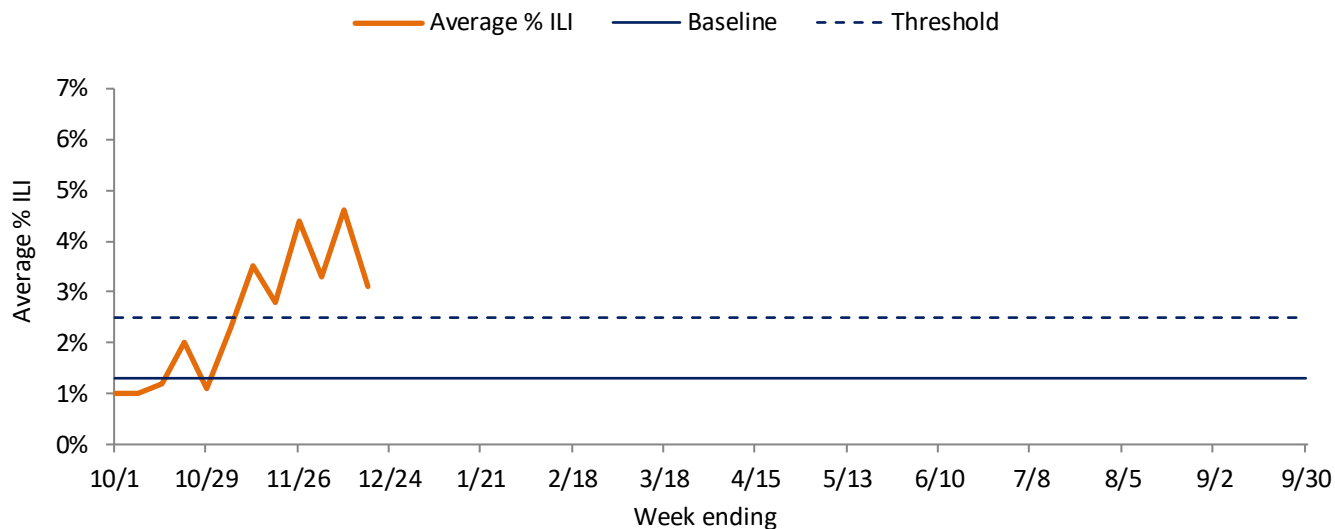
## Southeastern Region



## Southern Region



## Western Region







# SEASONAL INFLUENZA VACCINATION

## Influenza vaccine composition 2022-2023:

**Egg-based vaccines** are recommended to contain:

- an A/Victoria/2570/2019 (H1N1) pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus (updated);
- a B/Austria/1359417/2021-like virus (B/Victoria lineage (updated));
- a B/Phuket/3073/2013-like virus (B/Yamagata lineage).

**Cell- or recombinant-based vaccines** are recommended to contain:

- an A/Wisconsin/588/2019 (H1N1) pdm09-like virus;
- an A/Darwin/6/2021 (H3N2)-like virus (updated);
- a B/Austria/1359417/2021-like virus (B/Victoria lineage) (updated);
- a B/Phuket/3073/2013-like virus (B/Yamagata lineage).

Seasonal flu vaccination data for Wisconsin based on information from the Wisconsin Immunization Registry (WIR) are available on the [DHS Influenza Vaccine Data Dashboard webpage](#).

These data are updated on a weekly basis during the influenza season.

