



**Iowa Influenza Surveillance Network (IISN)**  
 Influenza-like Illness (ILI) and Other Respiratory Viruses  
**Weekly Activity Report**  
 For the week ending October 23, 2021 - MMWR Week 42



All data presented in this report are provisional and may change as additional reports are received

Quick Stats for Week 42				
<b>Predominant Flu at SHL</b>  <b>No Flu Detected</b>	<b>Lab Survey Flu Positive %</b> Antigen <b>2.7%</b> Molecular <b>0.1%</b>	<b>Hospitalization Rate per 10,000</b>  <b>0.00</b>	<b>Outpatient ILI %</b>  <b>1.12%</b>	<b>Cumulative Flu Deaths All Ages</b>  <b>0</b>
<b>Predominant Nonflu</b>  <b>Rhinovirus / Enterovirus</b> <b>26.4% +</b>	<b>Schools Reporting 10% Illness</b>  <b>5</b>	<b>Weekly School Illness %</b>  <b>2.6%</b>	<b>Long Term Care Outbreaks</b>  <b>0</b>	<b>Cumulative Pediatric Flu Deaths</b>  <b>0</b>

**Flu Death Note:** Deaths are considered influenza-associated when influenza is listed on the death certificate. This is an underestimate of influenza-related deaths. Cumulative mortality totals are from 9/27/2020 to the current week.

### Iowa Statewide Activity Summary

**Overall Influenza Activity: Low**

**Flu tests at SHL:** The State Hygienic Laboratory reported **0** influenza positive specimens from specimens submitted.

**Antigen Tests:** There were **12** of **441 (2.7%)** influenza antigen tests were positive on the Iowa respiratory virus survey.

**Molecular Tests:** There were **2** of **2,301 (0.1%)** influenza molecular tests were positive on the Iowa respiratory virus survey.

**Outpatient Influenza-like-illness (ILI):** The proportion of outpatient visits due to ILI was **1.12%**, which is **below** the regional baseline of 1.7%.

**Flu Hospitalizations:** **0** influenza-related hospitalization were reported from sentinel sites.

**Schools Reporting 10% Illness:** **5** schools reported 10% of students absent due to illness at least once this week.

**Rhinovirus/Enterovirus PCR** was the most frequently reported non-influenza and non-COVID 19 respiratory testing target reported on the Iowa respiratory virus testing survey this week with **436** of **1,649** tests positive (**26.4%**).

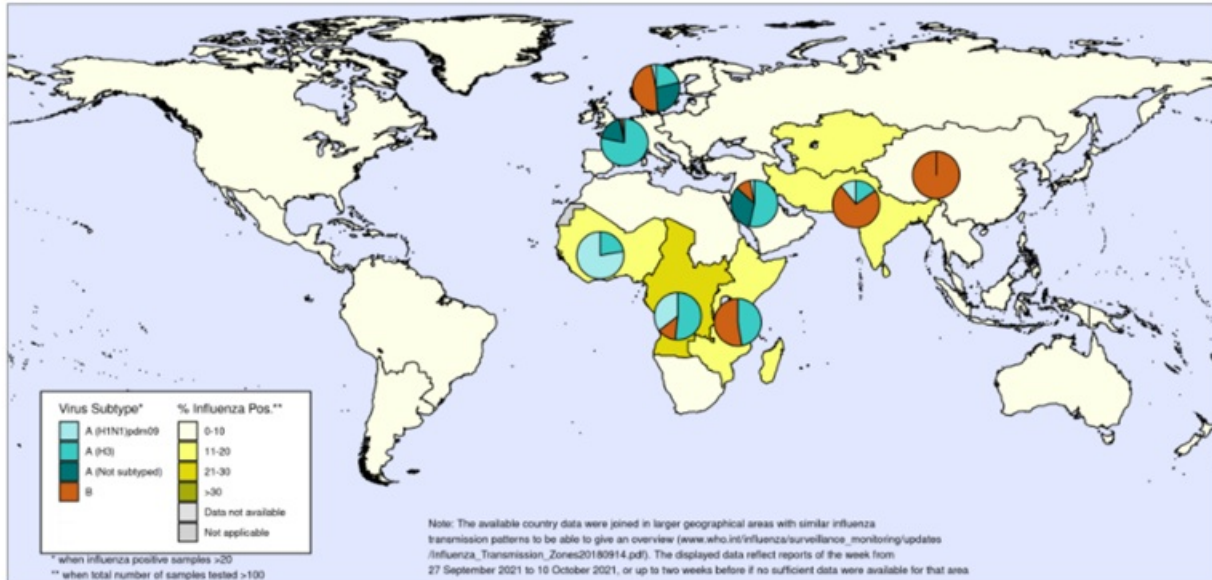
**Outbreaks:** No long-term care influenza outbreaks were reported.

**Flu deaths:** No influenza-associated deaths were reported.

# International Influenza Activity Summary - WHO

## Percentage of respiratory specimens that tested positive for influenza By influenza transmission zone

Map generated on 22 October 2021



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

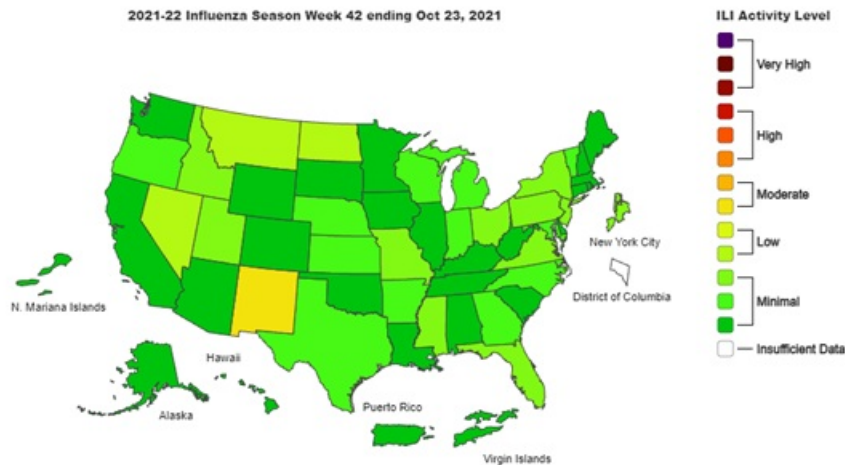


Data source: Global Influenza Surveillance and Response System (GISRS), FluNet (www.who.int/flu-net)  
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Visit <https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates/current-influenza-update> for more information.

## National Influenza Like Illness (ILI) Activity - CDC



This map shows influenza-like illness, which is determined by symptoms such as fever, cough, and sore throat that can be caused by a number of pathogens in addition to influenza (e.g., COVID-19). Detailed information can be found online at [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/).

## Influenza Testing at the State Hygienic Laboratory at the University of Iowa (SHL)

### Cumulative Influenza Viruses Detected by SHL by Age Group (10/3/2021 - Current Week)

Age Group	Influenza A				Total	Influenza B			Total
	A(H1N1) pdm09	A(H3)	A not subtyped	A Variant		B Victoria	B Yamagata	B not subtyped	
0-4	0	0	0	0	0	0	0	0	0
5-17	0	0	0	0	0	0	0	0	0
18-24	0	0	0	0	0	0	0	0	0
25-49	0	0	0	0	0	0	0	0	0
50-64	0	0	0	0	0	0	0	0	0
65 +	0	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>

**Table Note:** Cell counts of three or less are sometimes suppressed to protect confidentiality. Totals by age may not add up to totals by subtype/lineage due to missing age information. Only cases of Iowa residents are included. Specimens listed as “not subtyped” may be pending or were not able to be subtyped due to weak positive lab results. This can be due to poor collection, timing of collection or stage of infection.

**SHL Flu Testing Note:** The State Hygienic Laboratory (SHL) is the primary laboratory in Iowa characterizing specimens for influenza surveillance. SHL reports the number of tests performed and the type and subtype/lineage of positive tests to the influenza surveillance network daily. SHL also sends a portion of specimens to CDC for further characterization.

## Iowa Respiratory Survey - Influenza

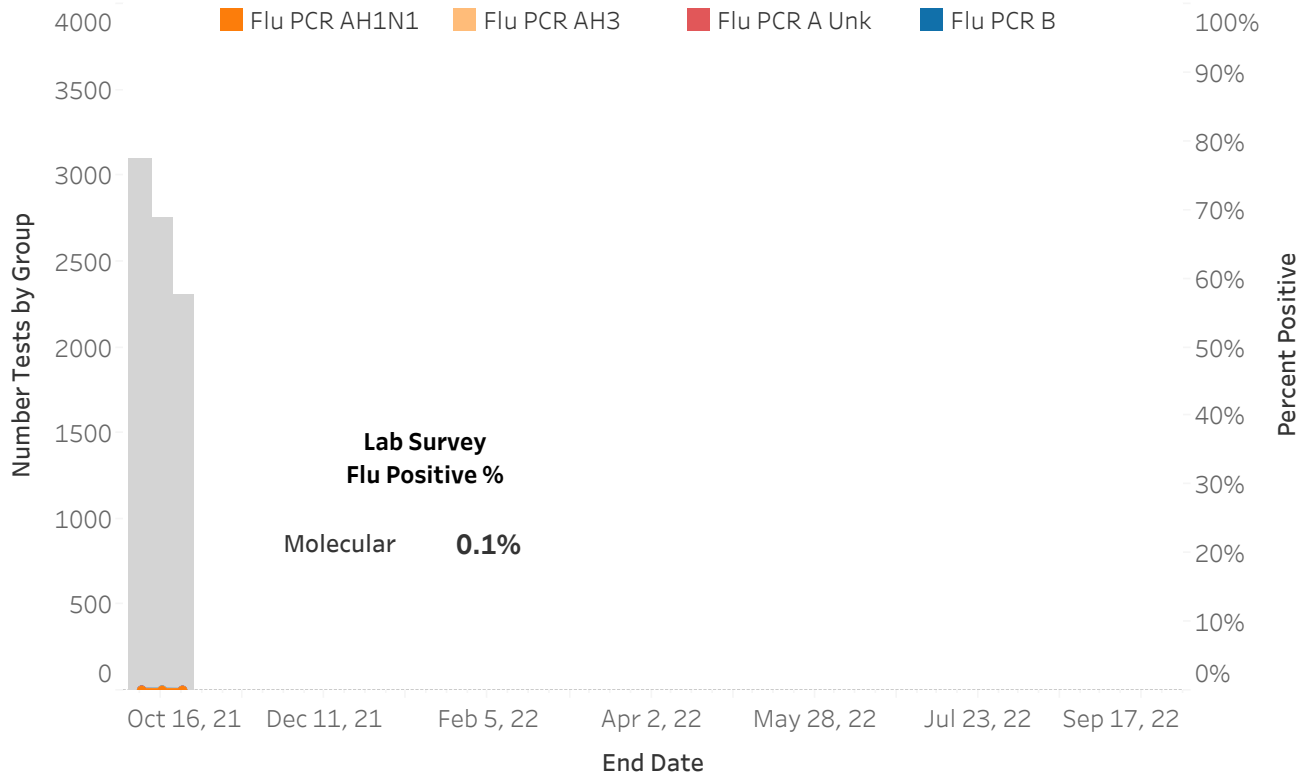
### Flu Tests and Positivity by Region - Current Week

Flu Region	Antigen				Molecular			
	Flu A Ag		Flu B Ag		Flu PCR A Unk		Flu PCR B	
	Percent Positive	Number Tests	Percent Positive	Number Tests	Percent Positive	Number Tests	Percent Positive	Number Tests
1-C	1.1%	88	1.1%	88	0.2%	484	0.2%	484
2-NE	0%	2	0%	2	0%	423	0%	423
3-NW	0.9%	320	2.2%	320	0%	40	0%	40
4-SW		0		0	0%	53	0%	53
5-SE	0%	30	0%	30	0%	55	0%	55
6-E	0%	1	0%	1	0%	1246	0%	1246
<b>Total</b>	<b>0.9%</b>	<b>441</b>	<b>1.8%</b>	<b>441</b>	<b>0%</b>	<b>2301</b>	<b>0%</b>	<b>2301</b>

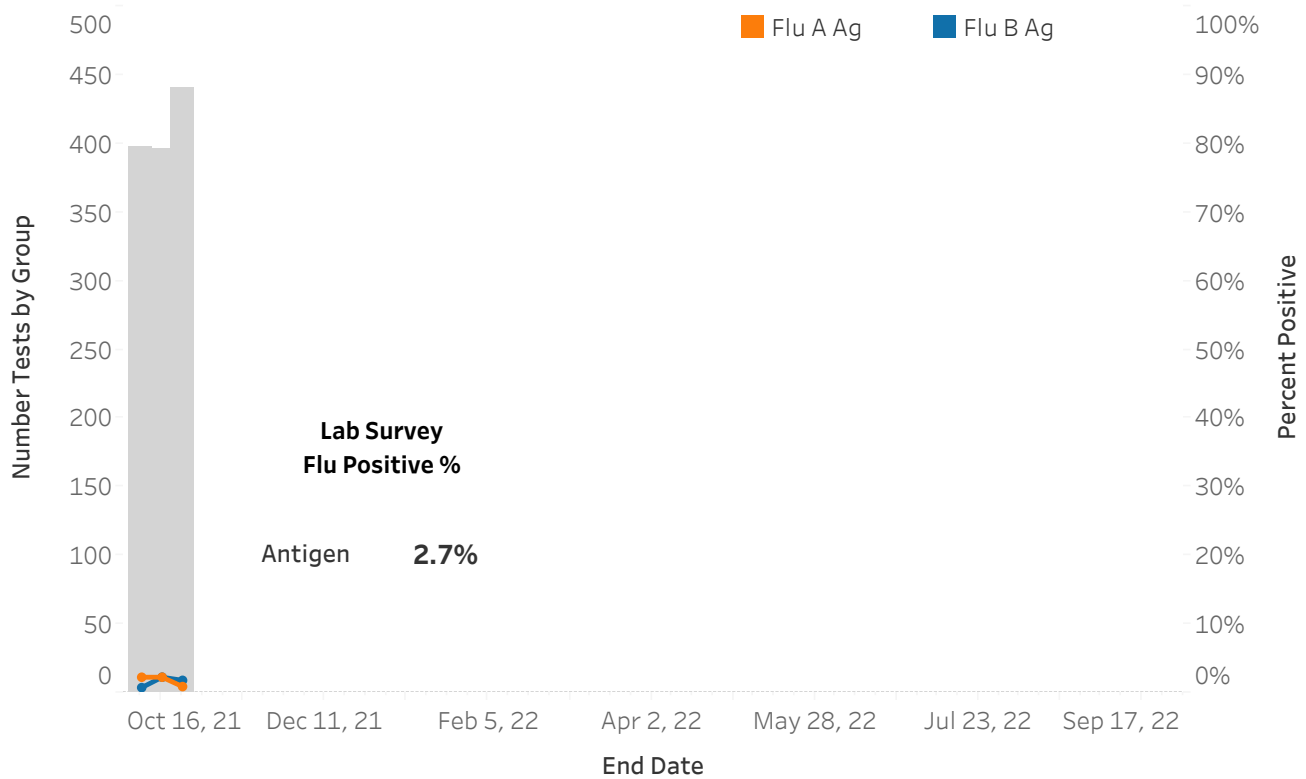
**Table Note:** Only tests with at least one positive this week are shown.

**Respiratory Survey Note:** IDPH and SHL run a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. Facilities reported the total number of tests and positive results not individual-level information.

## Number of Influenza Molecular Tests and Positive Percentage



## Number of Influenza Antigen Tests and Positive Percentage

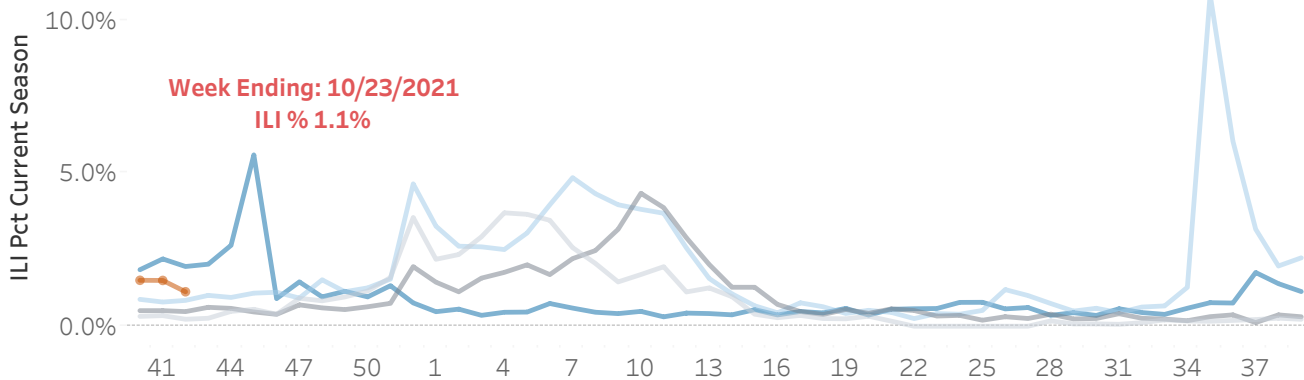


## Outpatient Health Care Provider Surveillance Program (ILINet)

### Percent Of Outpatient Visits Attributed to Influenza-like Illness (ILI) as Reported by ILINet Sites

2017-18    2018-19    2019-20    2020-21    2021-22

#### ILI by Season



#### ILI Recent Weeks

MMWR Week	End Date	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age 65 and older	Total ILI	ILI Pct
40	10/9/2021	17	37	23	11	5	93	1.50%
41	10/16/2021	19	36	33	4	8	100	1.49%
42	10/23/2021	8	27	13	6	10	64	1.12%

**Outpatient ILI Note:** Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of Iowa’s influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or [andy.weigel@idph.iowa.gov](mailto:andy.weigel@idph.iowa.gov) for more information.

**ILI Definition Note:** The ILI Definition has changed for 2021-22 so that persons with ILI symptoms (cough, sore throat, fever) will be counted even if positive for other respiratory illness (e.g., COVID-19) which makes comparison across seasons difficult.

## Iowa Department of Public Health Data Tracking Portal - Flu Vaccine

### State of Iowa - 2021-2022

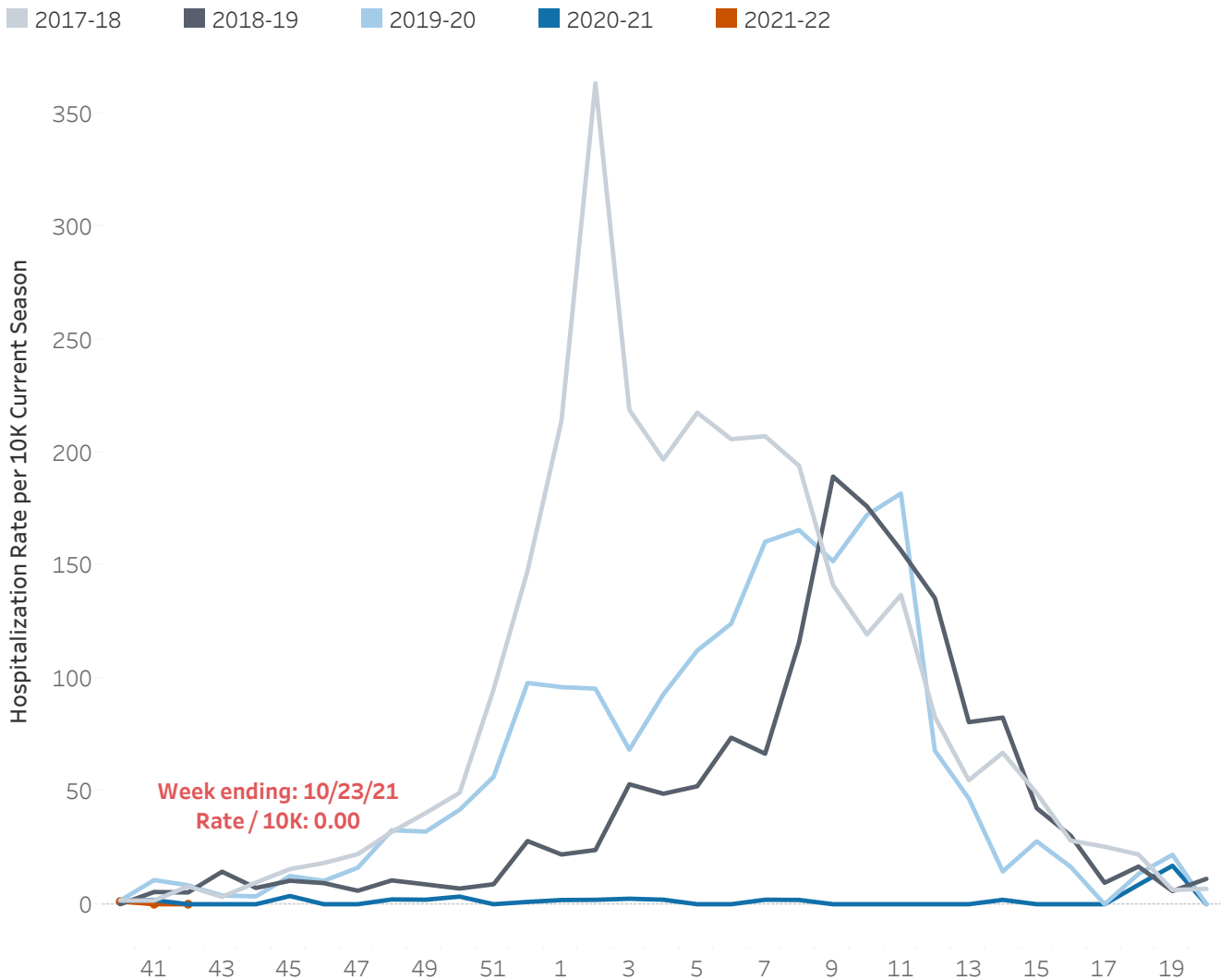
<b>Percent of Population Receiving Flu Vaccine</b>	<b>17.1%</b>
<b>Persons Receiving Flu Vaccine</b>	<b>542,077</b>
<b>Census Population</b>	<b>3,163,561</b>

Updated 10/29/2021

Visit the Iowa Public Health Tracking Portal Influenza Vaccine Data page for details on Iowa Flu Vaccine Coverage: <https://tracking.idph.iowa.gov/Health/Immunization/Influenza-Vaccine/Influenza-Vaccine-Data>

## Influenza-associated Hospitalizations

### Influenza-associated Hospitalization Rate Reported by Hospital Surveillance Sites - by Season



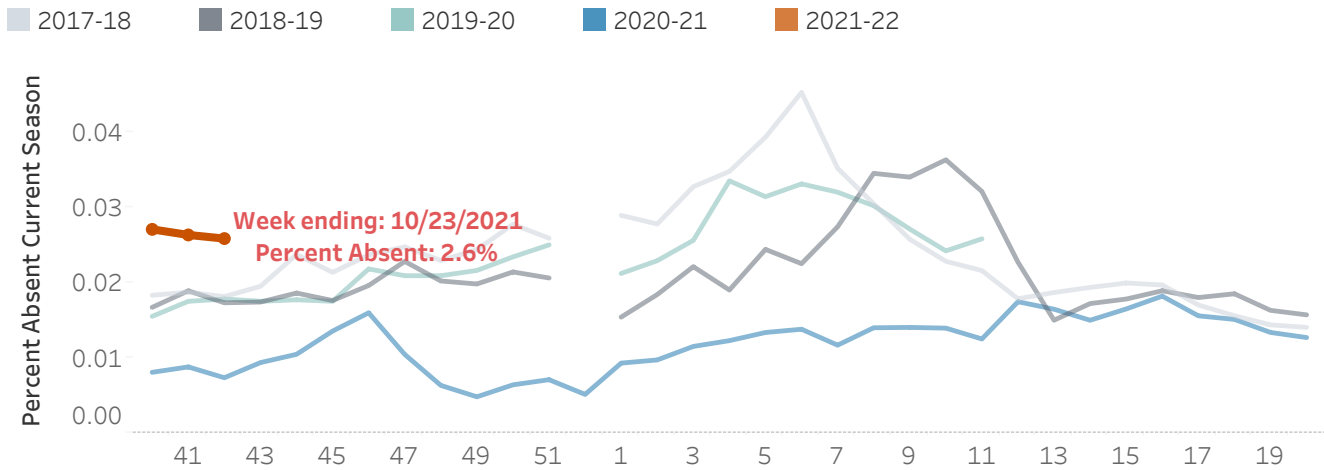
### Number of Influenza-Associated Hospitalizations by Age Group

Age Group	Current Week Flu Hospitalizations	Cumulative Flu Hospitalizations
0-4	0	0
5-24	0	0
25-49	0	0
50-64	0	1
65+	0	0
Total	0	1

**Hospital Surveillance Note:** Sentinel hospitals that participate in IISN voluntarily track and report the number of influenza-associated hospitalizations and the total number of inpatients each week. Iowa hospitals interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or [andy.weigel@idph.iowa.gov](mailto:andy.weigel@idph.iowa.gov) for more information.

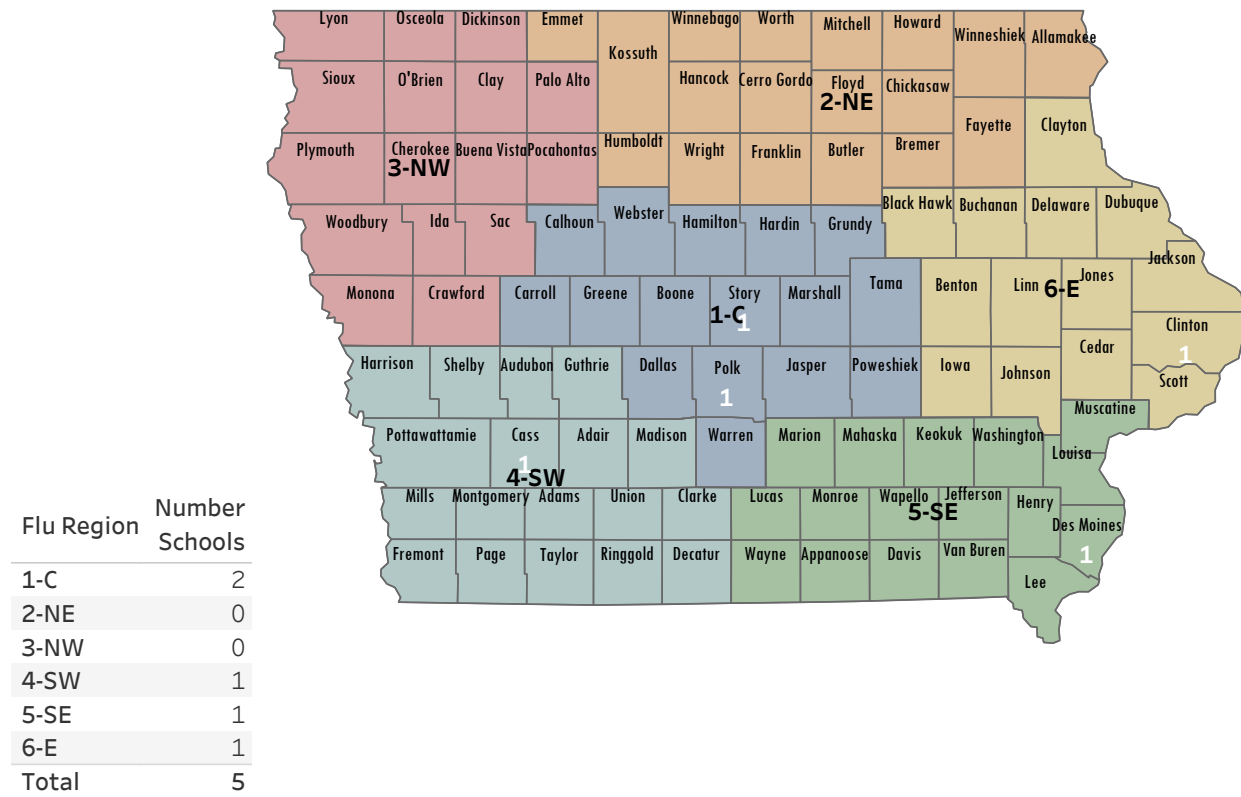
# School Illness Surveillance Program

## Percent of Enrolled Students Absent Due to Illness Reported by Sentinel Schools



**NOTE: School data for week 52-53 are limited due to holiday closings**

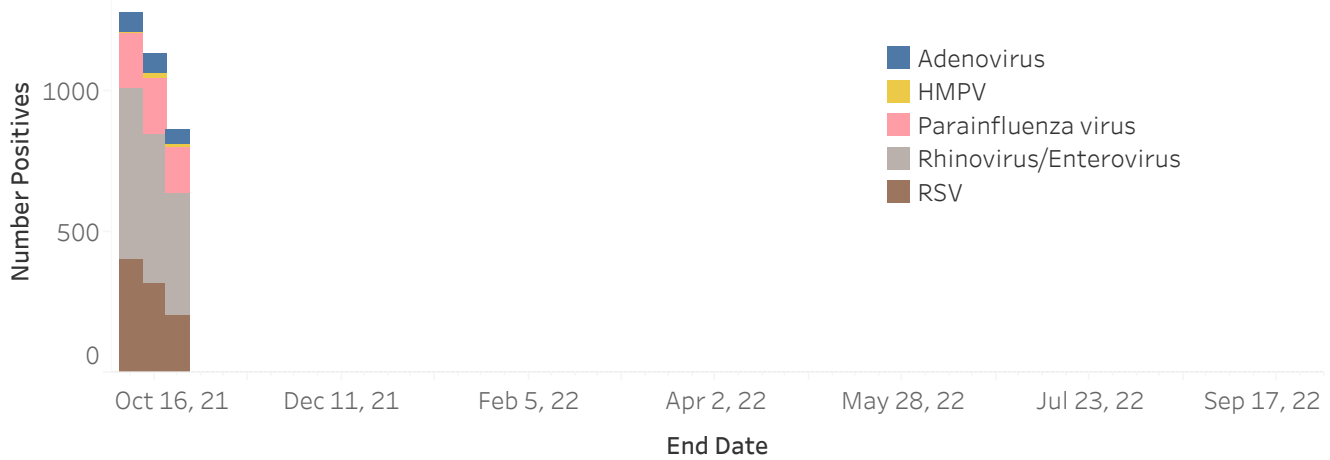
## Counties with 10% School Illness 10/17/2021 - 10/23/2021



**School Illness Note:** IDPH monitors illnesses in schools from two different types of reporting: 10 percent school absence reports and weekly sentinel illness reporting. Iowa schools (K-12) track and report when the number of students absent with any illness reaches or exceeds 10 percent of total student enrollment. Iowa sentinel schools that participate in IISN voluntarily track and report absence due to all illness and the total enrollment each week.

# Iowa Respiratory Virus Survey - Non-influenza

## Number of Positive Non-influenza Respiratory Viruses by Pathogen and Week



**Table Note:** Pathogens are grouped together if even if reported to IDPH as separate types or subtypes (e.g., Parainfluenza Viruses 1, 2, 3, and 4). Only pathogens with at least one positive result this season are shown.

## Number of Non-influenza Molecular Positive Results for Current Week and Cumulative

Pathogen (group)	Current Week Positives	Cumulative Positives
Rhinovirus/Enterovirus	436	1,570
RSV	202	928
Parainfluenza virus	161	546
Adenovirus	52	193
HMPV	13	37

**Table Note:** Only pathogens with at least one positive result are shown.

**Respiratory Survey note:** IDPH and SHL run a weekly web-based survey program where laboratorians report the number of non-influenza respiratory virus tests performed and the number of positive results. Facilities reported the total number of tests and positive results not individual-level information.