



Iowa Influenza Surveillance Network (IISN)
Influenza-like Illness (ILI) and Other Respiratory Viruses
Monthly Activity Report
September 2021
(September 05, 2021 - October 2, 2021)



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

This is the final surveillance report of the 2020-2021 influenza season. On Friday, October 15, 2021, IDPH will resume publishing weekly surveillance reports.

| Lab Survey Flu Positive % | Outpatient ILI % | Cumulative Flu Deaths All Ages |
|------------------------------|-----------------------------|--------------------------------------|
| Antigen 3.4% PCR 0.0% | 1.27% | 6 |
| Predominant Nonflu Virus | Long Term Care Outbreaks | Schools Reporting 10% Illness |
| Rhinovirus / Enterovirus PCR | 0 | 79 |

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 Monthly Activity Summary

Overview: Overall influenza activity is low, but is starting to increase.

Flu Tests : The State Hygienic Laboratory identified two influenza A(H1N1)pdm09 viruses from the specimens submitted. Four of almost 13,000 influenza molecular tests reported on the Iowa respiratory testing survey were positive for influenza (3 influenza A unknown type, and 1 influenza B).

ILI: The percent of outpatient visits due to influenza-like illness is below the 1.7% regional baseline.

School Illness: 79 schools reported 10% illness.

Non-flu testing: Rhinovirus / Enterovirus was the most frequently reported non-influenza respiratory testing target reported on the Iowa respiratory virus testing survey.

Influenza-related Mortality: One flu death was reported for this month leading to a cumulative total of 6 for this season.

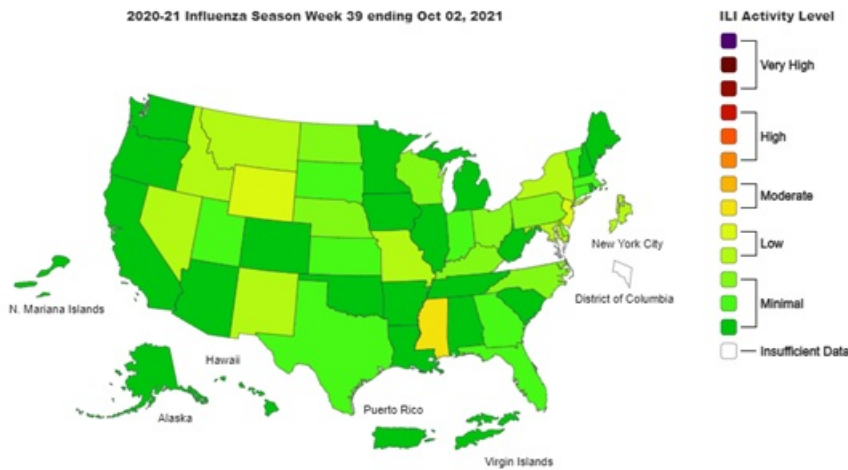
International Activity Summary (WHO)

Globally, despite continued or even increasing testing for influenza in some countries, influenza activity remained at lower levels than expected for this time of the year. In the temperate zone of the southern hemisphere, influenza activity remained at inter-seasonal levels. In the temperate zone of the northern hemisphere, influenza activity remained at inter-seasonal levels. Worldwide, influenza A and B viruses were detected in similar proportions.

Source (last updated 9/27/2021):

<https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates/current-influenza-update>

National activity summary - (CDC)



Detailed information can be found online at www.cdc.gov/flu/weekly/.

Note: 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).

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

Cumulative Influenza viruses detected by SHL by age group (9/29/19 – Current Month)

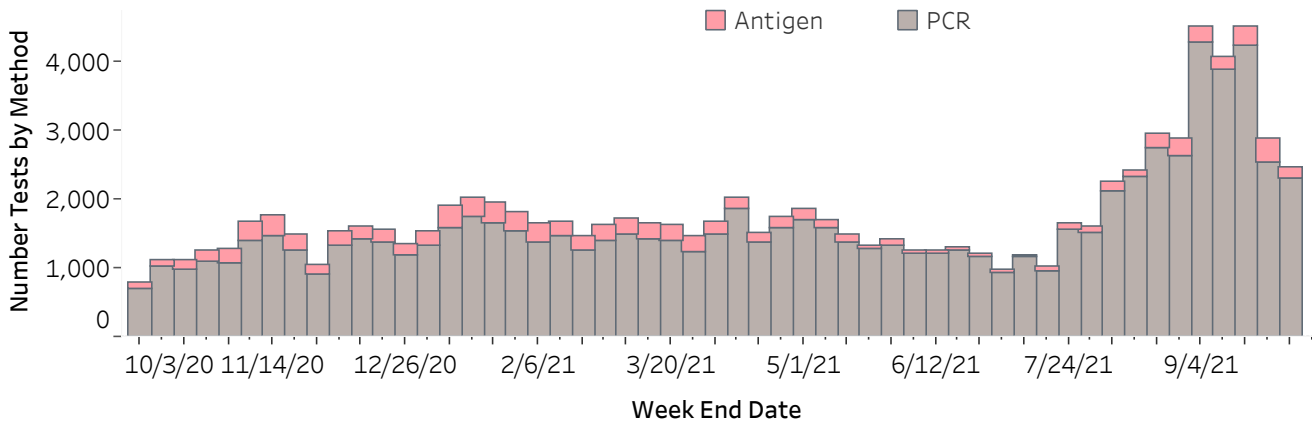
| Age Group | Influenza A | | | | Total | Influenza B | | | Total |
|--------------|---------------|----------|----------------|-----------|----------|-------------|------------|----------------|----------|
| | A(H1N1) pdm09 | A(H3) | A not subtyped | A Variant | | B Victoria | B Yamagata | B not subtyped | |
| 0-4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 5-17 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 18-24 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 25-49 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 50-64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 and over | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| Total | 4 | 0 | 0 | 3 | 7 | 0 | 0 | 0 | 0 |

Cumulative Flu Test 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, ti..

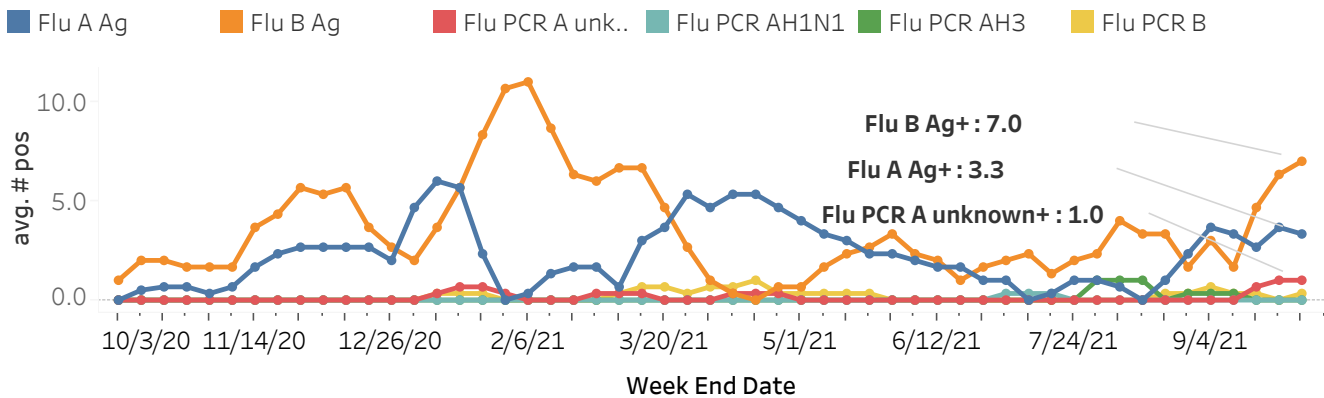
SHL Flu Testing Note: The State Hygienic Laboratory (SHL) is the primary laboratory in Iowa characterizing specimens for influenza surveillance. SHL reports the number of tests performed and the type and subtype/lineage of positive tests to the influenza surveillance network daily. SHL also sends a portion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

Influenza Antigen and Molecular Results from Respiratory Virus Survey

Number of Influenza Tests Reported By Method



Number of Influenza Positive Tests by Week, 3-week Average



NOTES: This graph now shows NUMBER of positives, not positive percentage.
Only tests with at least one positive result this season are shown.

Flu Tests by Region - Current Month (9/5/21 - 10/2/21)

| Flu Region | Antigen | | | | PCR | | | |
|--------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|
| | Flu A Ag | | Flu B Ag | | Flu PCR A unknown | | Flu PCR B | |
| | Number Positives | Positive Percent | Number Positives | Positive Percent | Number Positives | Positive Percent | Number Positives | Positive Percent |
| 1-C | 4 | 2.2% | 2 | 1.1% | 0 | 0.0% | 1 | 0.0% |
| 2-NE | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 3-NW | 8 | 1.2% | 19 | 2.8% | 3 | 0.4% | 0 | 0.0% |
| 4-SW | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 5-SE | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 6-E | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| Total | 12 | 1.2% | 21 | 2.2% | 3 | 0.0% | 1 | 0.0% |

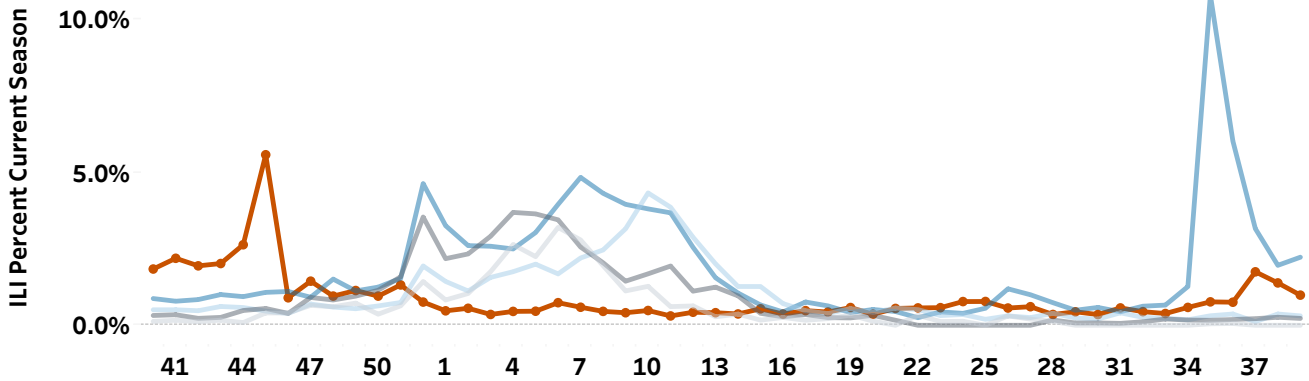
Respiratory Survey Note: IDPH and SHL run a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. Facilities reported the total number of tests and positive results not individual-level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

Outpatient Health Care Provider Surveillance Program (ILINet)

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

2016-17 2017-18 2018-19 2019-20 2020-21

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 Percent |
|-----------|----------|---------|----------|-----------|-----------|------------------|-----------|-------------|
| 36 | 9/11/21 | 3 | 14 | 7 | 3 | 1 | 28 | 0.76% |
| 37 | 9/18/21 | 24 | 50 | 15 | 7 | 7 | 103 | 1.75% |
| 38 | 9/25/21 | 16 | 38 | 15 | 6 | 2 | 77 | 1.39% |
| 39 | 10/2/21 | 6 | 31 | 14 | 1 | 1 | 53 | 0.99% |

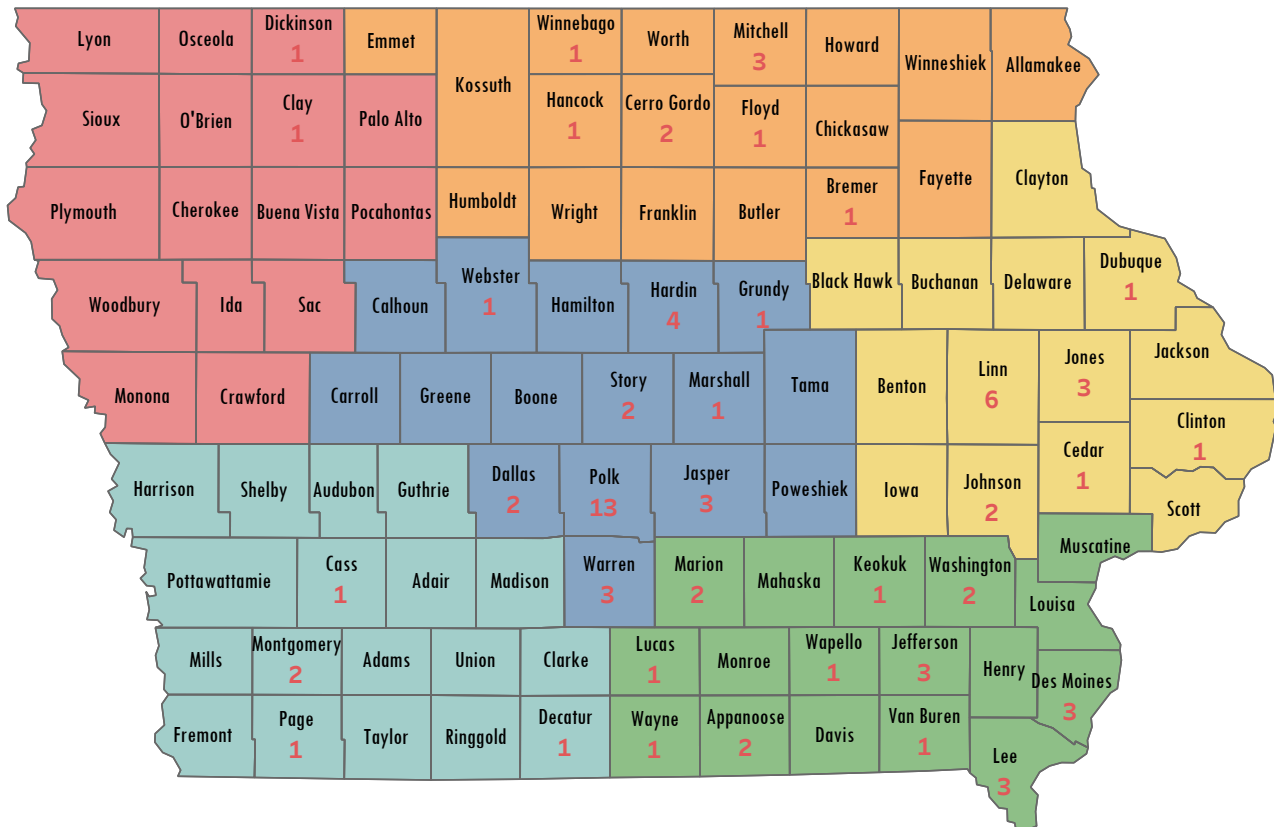
Outpatient ILI Note: Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of Iowa’s influenza surveillance.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

Note: For week 35 of 2019-20 and week 45 of 2020-21 a few ILINet sites had very high rates of ILI mostly due to COVID-19. IDPH worked with sites reporting high ILI to exclude reported influenza-like illness due to COVID which greatly reduced the ILI% starting with data for week 46.

Number of Schools Reporting > 10% Absenteesim Due to Any Illness

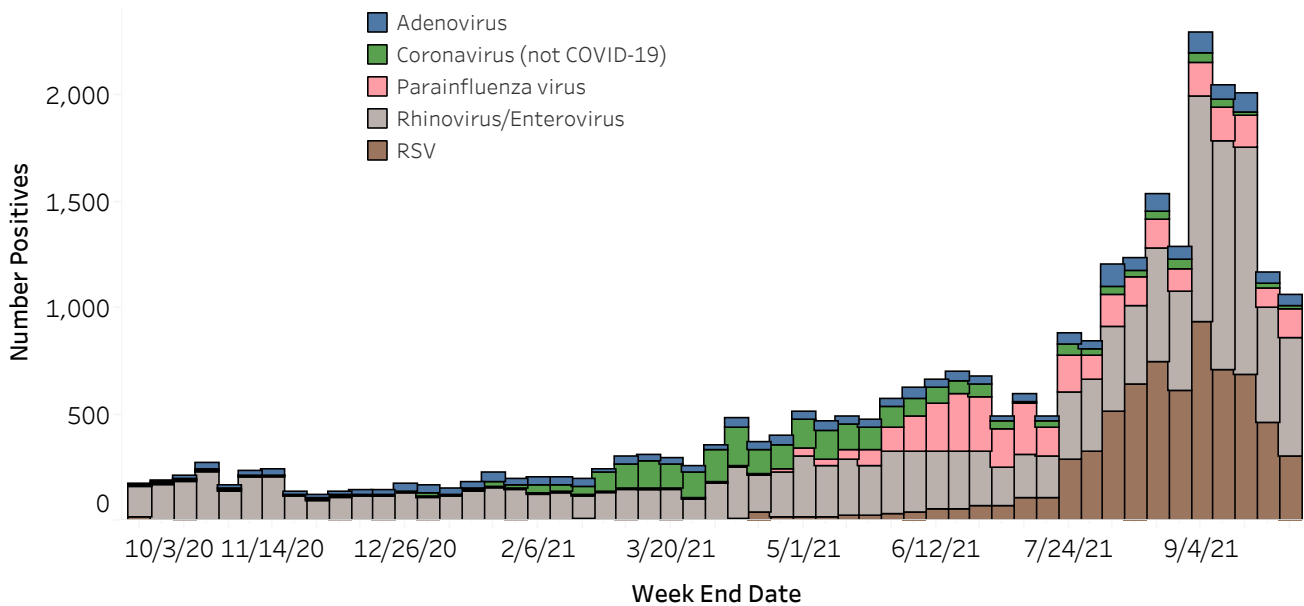
9/5/2021 - 10/2/2021

| Flu Region Text | Flu Region .. | |
|-----------------|---------------|----|
| 1-C | 1-C | 29 |
| 2-NE | 2-NE | 9 |
| 3-NW | 3-NW | 2 |
| 4-SW | 4-SW | 5 |
| 5-SE | 5-SE | 20 |
| 6-E | 6-E | 14 |
| | Total | 79 |



Non-influenza Respiratory Viruses

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



Number of Non-influenza Positive Results for Month and Cumulative

| Pathogen / Group | Current Month Positives | Cumulative Positives |
|------------------------------|-------------------------|----------------------|
| Rhinovirus / Enterovirus PCR | 3,248 | 14,248 |
| RSV PCR | 2,156 | 6,865 |
| PIV3 PCR | 161 | 2,613 |
| Adenovirus PCR | 269 | 2,018 |
| Coronavirus PCR NL63 | 9 | 1,195 |
| CoV PCR OC43 | 51 | 1,099 |
| RSV Ag | 238 | 577 |
| PIV2 PCR | 197 | 402 |
| PIV4 PCR | 159 | 300 |
| CoV PCR not typed | 11 | 259 |
| CoV PCR 229E | 12 | 98 |
| HMPV PCR | 19 | 39 |
| Coronavirus PCR HKU1 | 11 | 34 |
| PIV1 PCR | 1 | 12 |

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. Only pathogens with at least one positive result are shown.

Other Resources:

Influenza vaccine recommendation: <https://idph.iowa.gov/immtb/immunization/influenza/recommendations>
 CDC vaccine information: <https://www.cdc.gov/flu/prevent/keyfacts.htm>
 Vaccine finder: <https://vaccinefinder.org/>

Neighboring states' influenza information:

Illinois: <https://dph.illinois.gov/topics-services/diseases-and-conditions/influenza/influenza-surveillance>
 Minnesota: <https://www.health.state.mn.us/diseases/flu/stats/index.html>
 Missouri: <https://health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php>
 Nebraska: <http://dhhs.ne.gov/Pages/Flu-Activity.aspx>
 South Dakota: <https://doh.sd.gov/diseases/infectious/flu/>
 Wisconsin: <https://dhs.wisconsin.gov/influenza/index.htm>