



Iowa Influenza Surveillance Network (IISN)
 Influenza-like Illness (ILI) and Other Respiratory Viruses
Monthly Activity Report



Report Month: July 2022 (July 3, 2022 - July 30, 2022)

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

| Quick Stats for Week 27 - 30 | | |
|--|---|--|
| Lab Survey Flu Positive % Antigen 3.5% Molecular 0.1% | Outpatient ILI % 0.81% | Cumulative Flu Deaths All Ages 46 |
| Cumulative Pediatric Flu Deaths 0 | Long Term Care Outbreaks 0 | Predominant Nonflu Rhinovirus/Enterovirus PCR |

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 10/3/21 to the current week.

Iowa Statewide Monthly Activity Summary

Overall Influenza Activity: Low

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

Flu Antigen Tests: There were **27** of **779 (3.5%)** influenza antigen tests reported as positive on the Iowa respiratory virus survey.

Flu Molecular Tests: There were **21** of **14,616 (0.1%)** influenza molecular tests reported as positive on the Iowa respiratory virus survey.

Outpatient Influenza-like-illness (ILI): The proportion of outpatient visits due to ILI was **0.81%**, which is **below** the regional baseline of 1.7%.

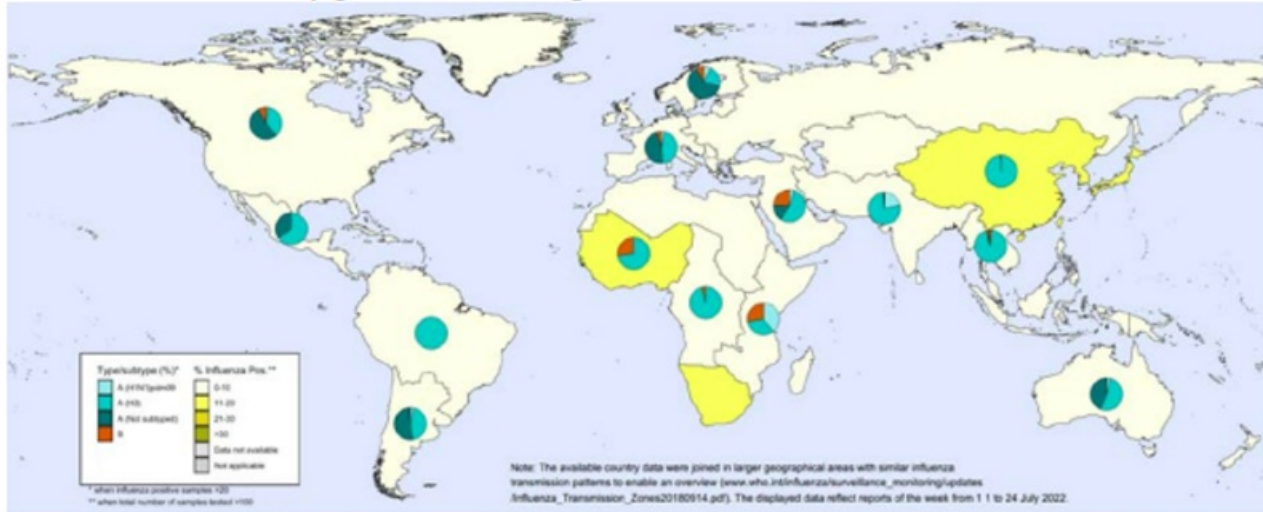
Flu Deaths: **1** influenza-associated death was reported this month.

Outbreaks: **0** long-term care influenza outbreaks were reported this month.

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 month with **388** of **2,685** tests positive (**14.5%**).

International Influenza Activity Summary - WHO

Percentage of respiratory specimens that tested positive for influenza, by influenza transmission zone¹. Map generated on 5 August 2022.



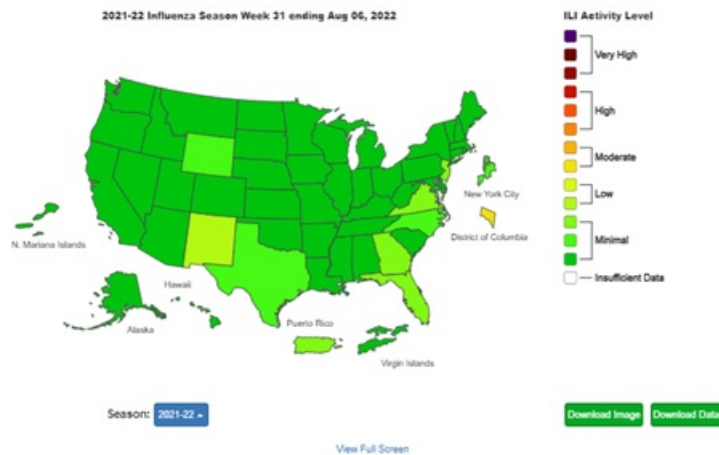
The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers 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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Data Source: Global Influenza and Response System (GISRS), FluNet (www.who.int/flu-net). 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/.

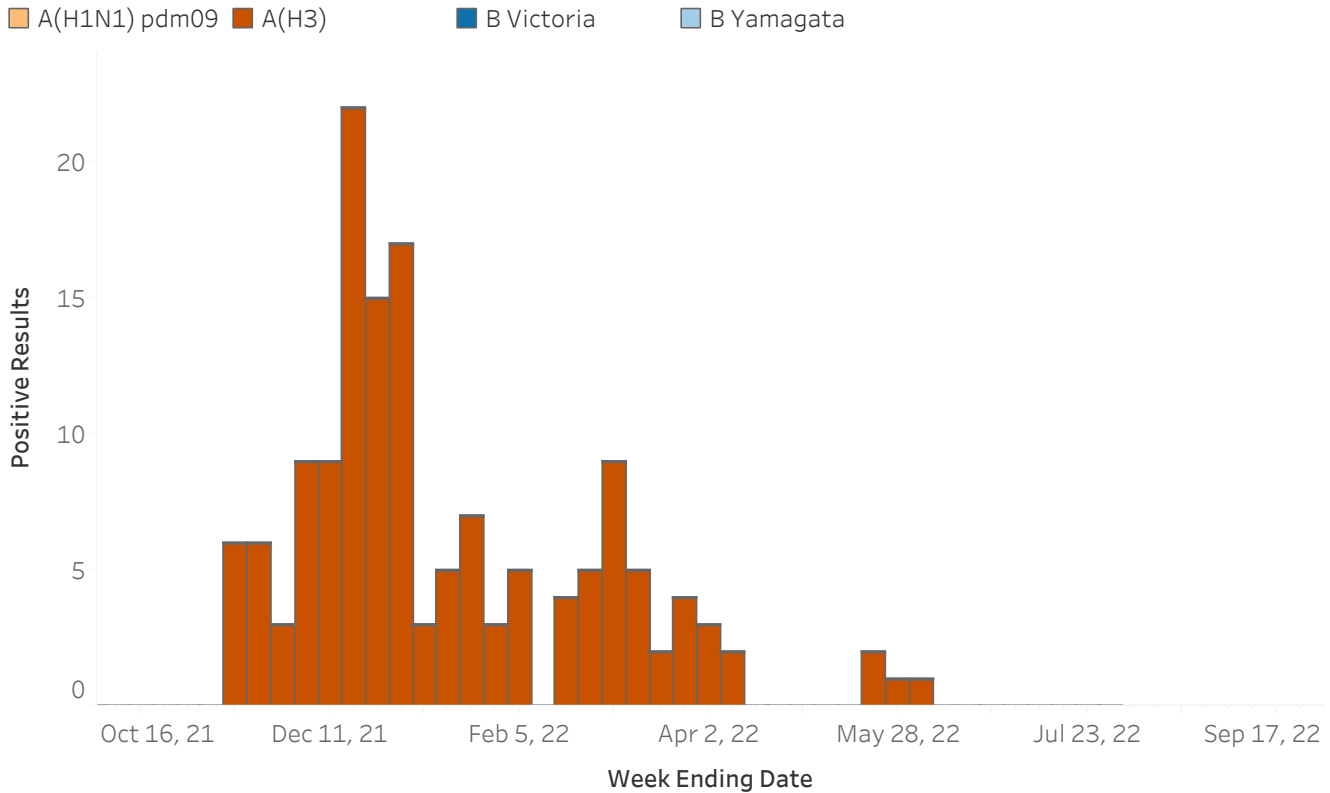
Influenza Testing at the State Hygienic Laboratory at the University of Iowa (SHL)

Cumulative Influenza Viruses Detected by SHL by Age Group (10/3/2021 - Current 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 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 |
| 5-17 | 0 | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 |
| 18-24 | 0 | 51 | 1 | 0 | 52 | 0 | 0 | 0 | 0 |
| 25-49 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 |
| 50-64 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 |
| 65 + | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 |
| Total | 0 | 148 | 1 | 0 | 149 | 0 | 0 | 0 | 0 |

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.

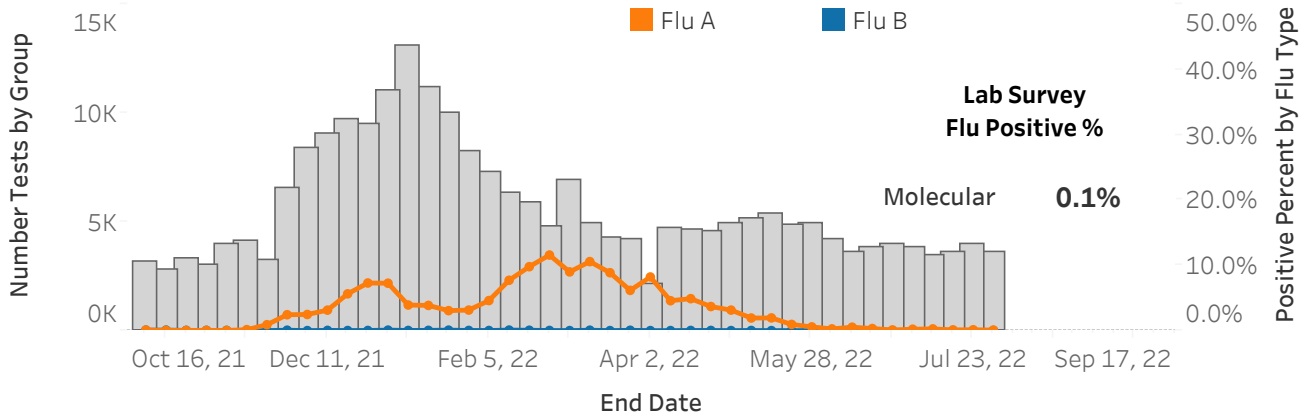
Influenza Viruses Detected by SHL by Week (10/3/21 - Current Month)



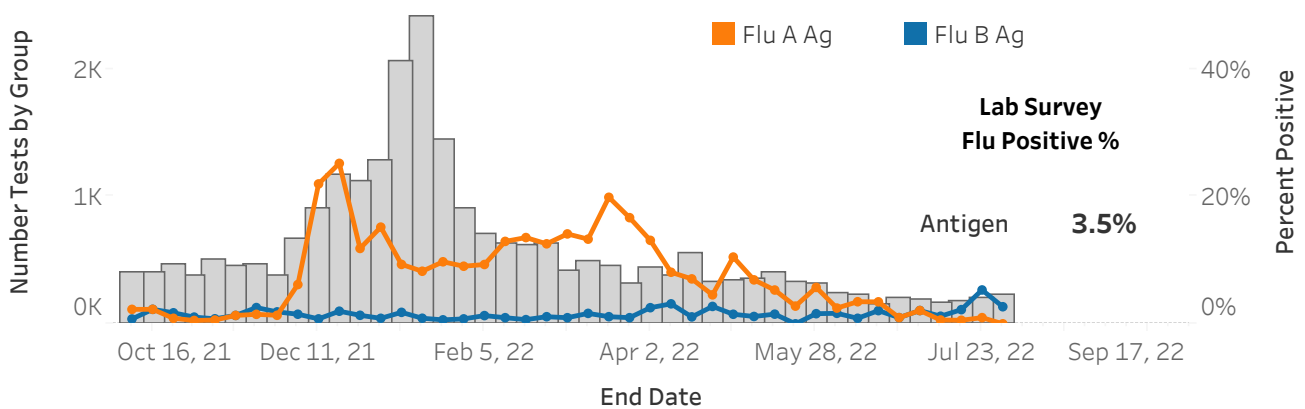
Graph Note: Only viruses that have been assigned a subtype or lineage are shown.

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.

Number of Influenza Molecular Tests and Positive Percentage



Number of Influenza Antigen Tests and Positive Percentage



Iowa Respiratory Survey - Influenza

Flu Tests and Positivity by Region - Current Month

| Flu Region | Antigen | | | | Molecular | |
|--------------|------------------|------------------------------|------------------|------------------------------|------------------|------------------------------|
| | Flu A | | Flu B | | Flu A | |
| | Number Positives | Positive Percent by Flu Type | Number Positives | Positive Percent by Flu Type | Number Positives | Positive Percent by Flu Type |
| 1-C | 0 | 0.0% | 0 | 0.0% | 6 | 0.2% |
| 2-NE | 0 | 0.0% | 0 | 0.0% | 2 | 0.5% |
| 3-NW | 2 | 0.4% | 22 | 3.9% | 1 | 0.2% |
| 4-SW | 0 | 0.0% | 0 | 0.0% | 1 | 0.6% |
| 5-SE | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 6-E | 2 | 3.6% | 1 | 1.8% | 11 | 0.1% |
| Total | 4 | 0.5% | 23 | 3.0% | 21 | 0.1% |

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

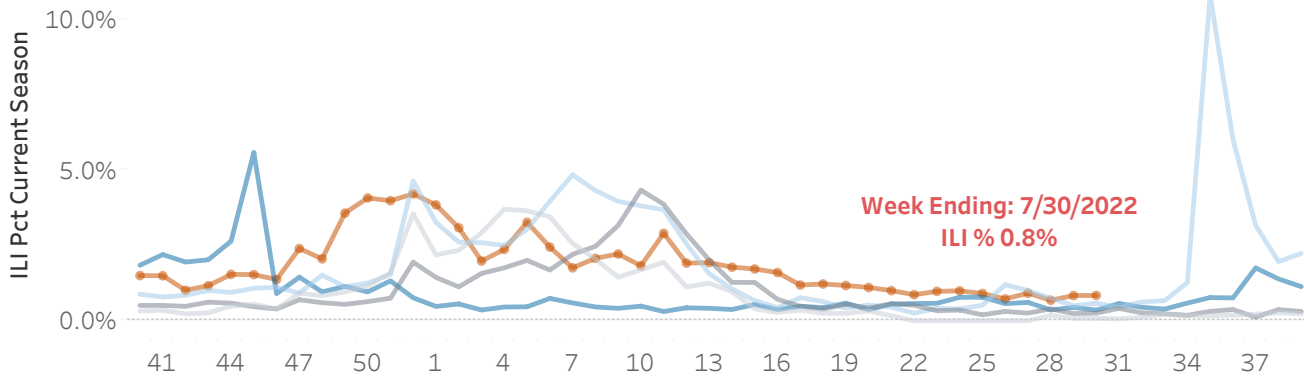
Respiratory Survey Note: IDPH and SHL run a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. Facilities reported the total number of tests and positive results, not individual-level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

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

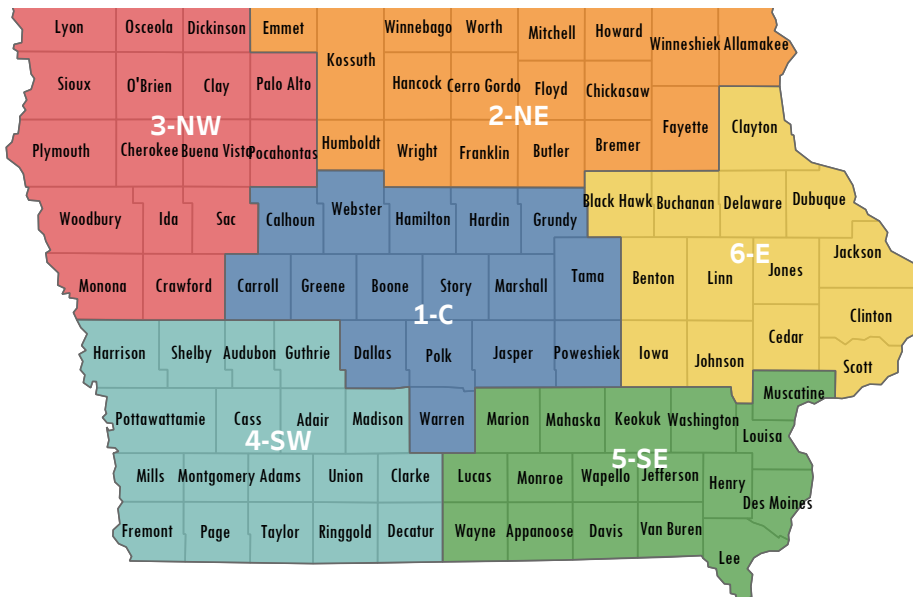


ILI Recent Weeks

| MMWR Week | End Date | Age 0-4 | Age 5-24 | Age 25-49 | Age 50-64 | Age 65 and older | Total ILI | ILI Pct |
|-----------|-----------|---------|----------|-----------|-----------|------------------|-----------|---------|
| 27 | 7/9/2022 | 2 | 8 | 7 | 7 | 5 | 29 | 0.92% |
| 28 | 7/16/2022 | 5 | 6 | 9 | 3 | 2 | 25 | 0.68% |
| 29 | 7/23/2022 | 5 | 2 | 14 | 3 | 6 | 30 | 0.83% |
| 30 | 7/30/2022 | 4 | 8 | 11 | 2 | 4 | 29 | 0.84% |

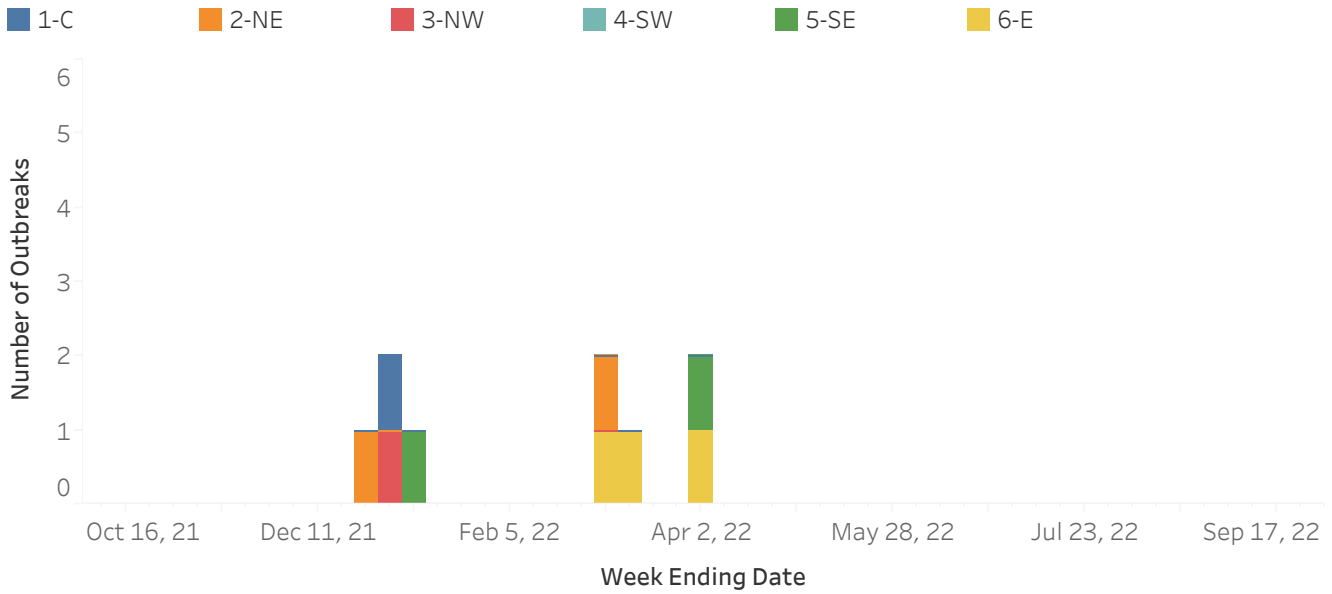
Outpatient ILI Note: Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. Iowa health care providers interested in joining this surveillance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

Flu Region Map



Long Term Care Facility Influenza Outbreaks

Influenza Outbreaks by Week and Region



Long Term Care Facility Outbreaks Note: An outbreak in a care facility is defined as at least two residents with suspected influenza in the same area of a facility having an illness onset within 72 hours of each other. At least one of the resident with suspected influenza must also have a lab-confirmed influenza positive.

Long Term Care Influenza Outbreaks Investigated by Region

| Flu Region Text | Current Month | Cumulative |
|-----------------|---------------|------------|
| 1-C | 0 | 1 |
| 2-NE | 0 | 2 |
| 3-NW | 0 | 1 |
| 4-SW | 0 | 0 |
| 5-SE | 0 | 2 |
| 6-E | 0 | 3 |
| Total | 0 | 9 |

Report Month: July 2022 (July 3, 2022 - July 30, 2022)

Iowa Respiratory Virus Survey - Non-influenza

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

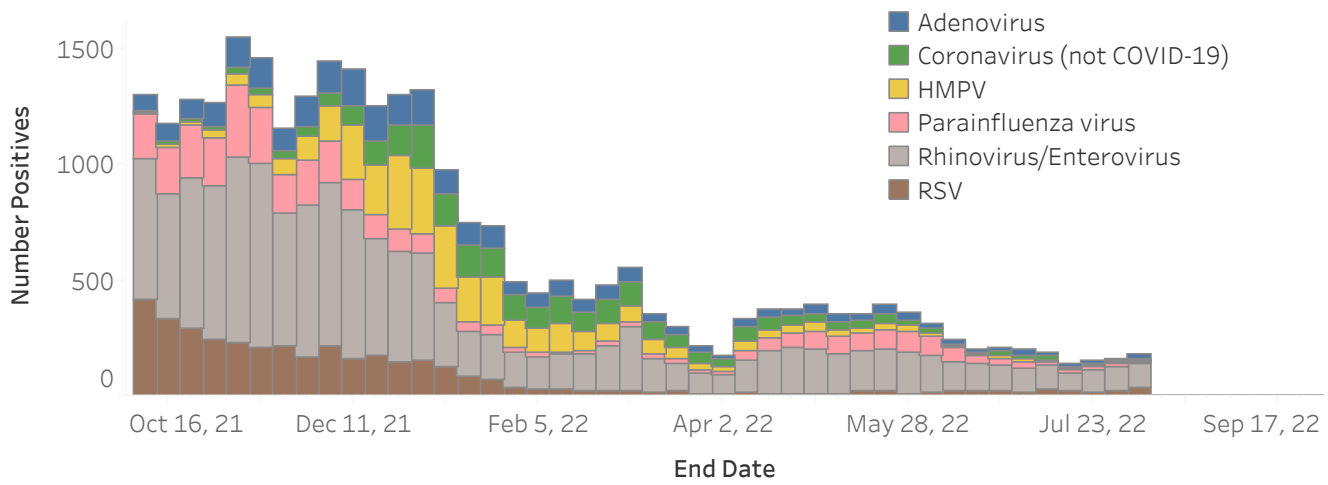


Table Note: Pathogens are grouped together if even if reported to IDPH as separate types or subtypes (e.g., Parainfluenza Viruses 1, 2, 3, and 4). Only pathogens with at least one positive result this season are shown.

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

| Pathogen (group) | Number of Positives Current Month | Cumulative Positives |
|----------------------------|-----------------------------------|----------------------|
| Rhinovirus/Enterovirus | 388 | 12,657 |
| RSV | 79 | 3,688 |
| Parainfluenza virus | 59 | 3,537 |
| Adenovirus | 54 | 2,712 |
| Coronavirus (not COVID-19) | 37 | 2,429 |
| HMPV | 21 | 3,257 |

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.