Influenza & Other Respiratory Viruses Surveillance Report 2021 - 2022 Season Week 8 ending February 26, 2022

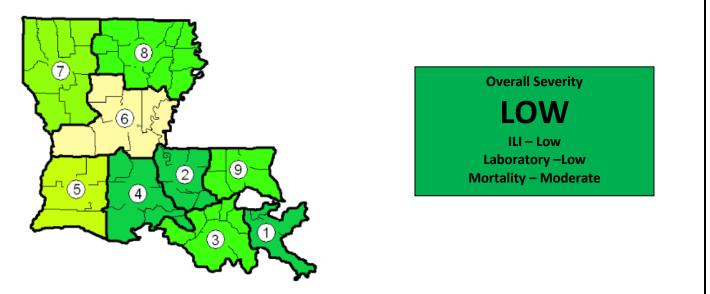


Infectious Disease Epidemiology



| Statewide ILI Activity |   |     |   |          |   |      |   |   |           |    |    |    |
|------------------------|---|-----|---|----------|---|------|---|---|-----------|----|----|----|
| Minimal                |   | Low |   | Moderate |   | High |   |   | Very High |    |    |    |
| 1 (                    | 2 | 3   | 4 | 5        | 6 | 7    | 8 | 9 | 10        | 11 | 12 | 13 |
|                        |   |     |   |          |   | •    |   |   |           |    |    |    |

# **Regional ILI Activity**



# Louisiana COVID-19 data: LDH COVID dashboard

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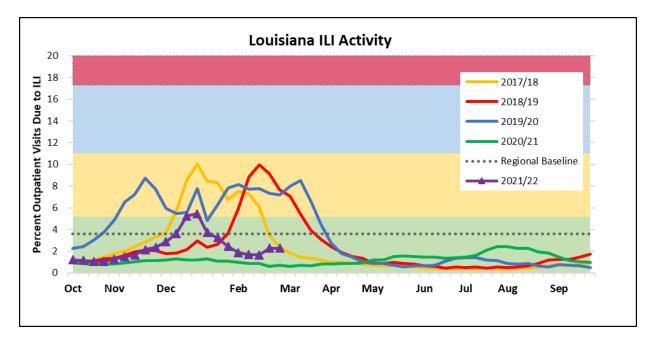
**Note:** This report includes data from numerous sources and should be viewed as preliminary each surveillance week. The information may be updated in future reports as additional data are received.

## **ILI Activity**

In Louisiana, during Week 8, 2.29% of patient visits reported through the U.S. Outpatient Influenza-like illness Surveillance Network (ILINet) were due to influenza-like illness (ILI). This percentage is below the regional baseline of 3.6%. The ILI case definition changed starting with the 2021-2022 season: fever ≥100.3 AND cough and/or sore throat. Week 2208: Louisiana ILI: 2.29 % Low Intensity

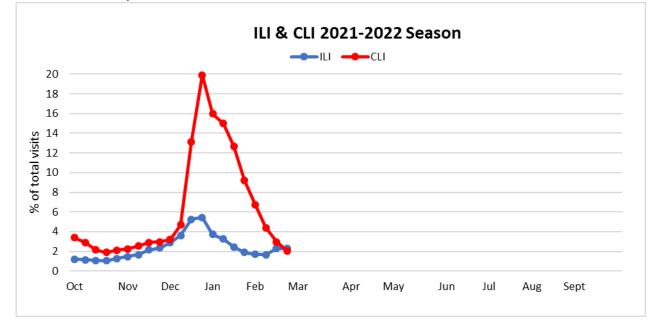


for more information on the U.S. ILI Activity assessment: <u>FluView Interactive</u>



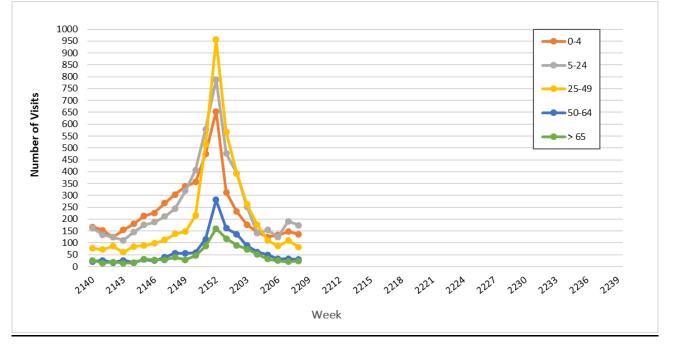
# ILI & CLI Activity

In addition to ILINet, COVID-19 surveillance is being monitored through the National Syndromic Surveillance Program (NSSP) using a CLI syndrome. CLI is defined as fever and cough or shortness of breath or difficulty breathing or the presence of a coronavirus diagnosis code. ILI and CLI are used to monitor trends in outpatient and emergency department visits that may be related to COVID-19.



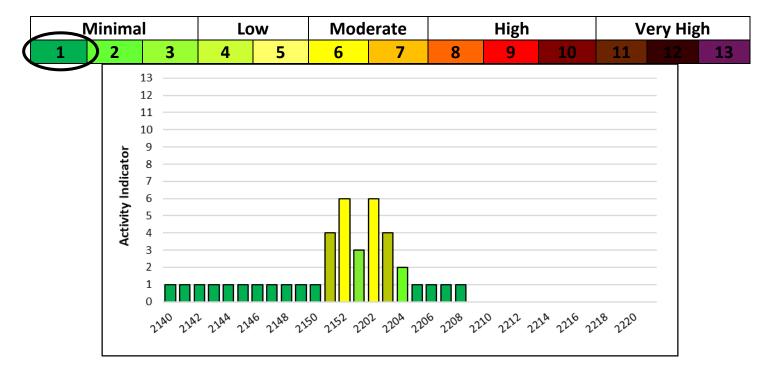
#### Louisiana ILI Activity by Age Group:

ILINet activity is reported by age group: 0-4 years, 5-24 years, 25-53 years, 53-64 years, and <u>>65 years</u>.



#### **CDC ILINet Activity Indicator:**

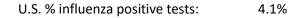
ILI Activity Levels compare the mean reported percent of visits due to ILI for the current week to the mean reported percent of visits due to ILI for non-influenza weeks. The 13 activity levels correspond to the number of standard deviations below, at, or above the mean for the current week compared with the mean of the non-influenza weeks. *For more information, refer to page 8 of report.* 

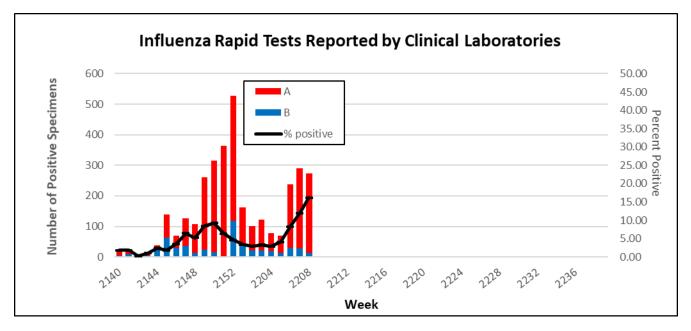


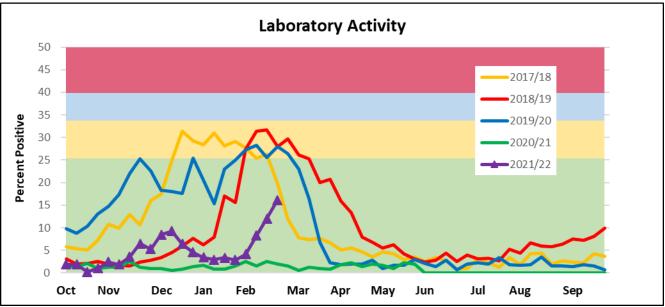
### **Virologic Surveillance:**

Louisiana virologic surveillance for respiratory viruses consists of data reported by clinical laboratories throughout the state and testing done at the State Public Health Laboratory. Data on influenza testing is presented below, data for other respiratory viruses is on page 7 of report.

Week 2208: Louisiana % influenza positive tests: 16.14%







|                              | Louisiana Public Health Laboratory | CDC/Public Health Laboratories |  |  |
|------------------------------|------------------------------------|--------------------------------|--|--|
| Number of specimens tested   | 420                                | 654,844                        |  |  |
| Number of positive specimens | 19                                 | 13,523                         |  |  |
| Influenza A                  | 19                                 | 13,423 (99.3%)                 |  |  |
| Influenza A/H1N1             | 0                                  | 4 (<0.1%)                      |  |  |
| Influenza A/H3N2             | 19                                 | 8,943 (99.9%)                  |  |  |
| Influenza A/H3N2v            | 0                                  | 1 (<0.1%)                      |  |  |
| Influenza A not subtyped     | 0                                  | 4,475                          |  |  |
| Influenza B                  | 0                                  | 100 (0.7%)                     |  |  |
| Influenza B/Victoria         | 0                                  | 1 (2.9%)                       |  |  |
| Influenza B/Yamagata         | 0                                  | 33 (97.1%)                     |  |  |
| Lineage not performed        | 0                                  | 66                             |  |  |

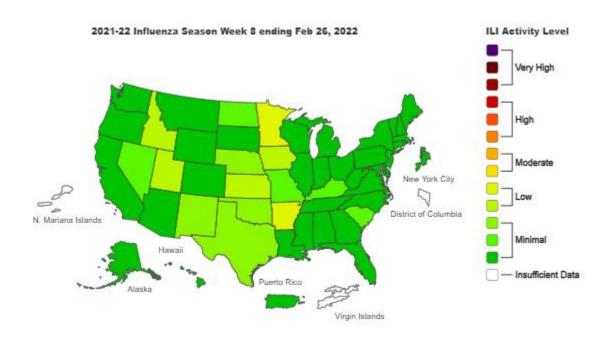
# Summary of Influenza Testing & Subtyping

# National Influenza Virus Characterizations

|                  | Genetic Characterization |          |                 |             |  |  |  |  |
|------------------|--------------------------|----------|-----------------|-------------|--|--|--|--|
|                  | Total #                  | HA Clade | Number (% of    | HA Subclade | Number (% of<br>subtype/lineage<br>tested) |  |  |  |
| Virus Subtype or | Subtype/Lineage          |          | subtype/lineage |             |  |  |  |  |
| Lineage          | Tested                   |          | tested)         |             |  |  |  |  |
| A/H1             | 3                        |          |                 |             |  |  |  |  |
|                  |                          | 6B.1A    | 3 (100%)        | 5a.1        | 2 (66.7%)                                  |  |  |  |
|                  |                          |          |                 | 5a.2        | 1 (33.3%)                                  |  |  |  |
| A/H3             | 709                      |          |                 |             |  |  |  |  |
|                  |                          | 3C.2a1b  | 618 (100%)      | 1a          | 1 (0.1%)                                   |  |  |  |
|                  |                          |          |                 | 1b          | 1 (0.1%)                                   |  |  |  |
|                  |                          |          |                 | 2a          | 0  |  |  |  |
|                  |                          |          |                 | 2a.1        | 0  |  |  |  |
|                  |                          |          |                 | 2a.2        | 707 (99.8%)                                |  |  |  |
|                  |                          | 3C.3a    | 0               | За          | 0  |  |  |  |
| B/Victoria       | 21                       |          |                 |             |  |  |  |  |
|                  |                          | V1A      | 20(100%)        | V1A         | 0  |  |  |  |
|                  |                          |          |                 | V1A.1       | 0  |  |  |  |
|                  |                          |          |                 | V1A.3       | 9 (43.0%)                                  |  |  |  |
|                  |                          |          |                 | V1A.3a      | 0  |  |  |  |
|                  |                          |          |                 | V1A.3a.1    | 0  |  |  |  |
|                  |                          |          |                 | V1A.3a.2    | 12 (57.0%)                                 |  |  |  |
| B/Yamagata       | 0                        |          |                 |             |  |  |  |  |
|                  |                          | Y3       | 0               |             |  |  |  |  |

### National surveillance updates

- FluSurv-Net: 5.2 per 100,000 cumulative hospitalization rate
- HHS Protect Hospitalizations: 1,504 patients with laboratory-confirmed influenza were admitted to the hospital.
- NCHS Mortality: 16.7% of deaths attributed to pneumonia, influenza, or COVID-19 (above threshold of 5.7%).
- Long-term Care Facility (LTCF) Surveillance: 69 (0.5%) of 14,200 LTCFs reported at least one laboratory-confirmed influenza tests among their residents.
- 8 influenza-associated pediatric deaths have been reported nationwide to CDC during the 2021-2022 season. 2 additional influenza-associated pediatric deaths were reported this week.

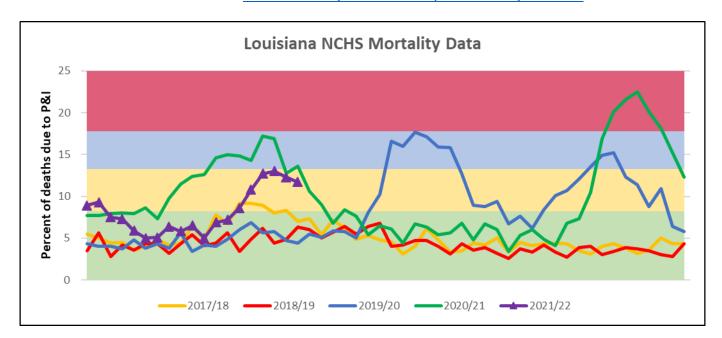


#### **Mortality Surveillance:**

In previous seasons, the NCHS surveillance data were used to calculate the percent of all deaths occurring each week that had pneumonia and/or influenza (P&I) listed as a cause of death. Because of the ongoing COVID-19 pandemic, during the 2020-2021 season, COVID-19 coded deaths were added to P&I to create the PIC (pneumonia, influenza, and/or COVID-19) classification. PIC includes all deaths with pneumonia, influenza, and/or COVID-19 listed on the death certificate. As of week 2208, Louisiana data shown below from NCHS has reverted to P&I.

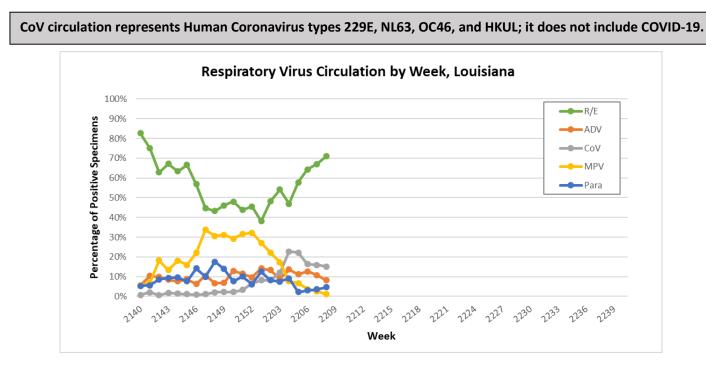
Weekly mortality surveillance data include a combination of machine coded and manually coded causes of death collected from death certificates. Due to the additional time needed for manual coding, the initially reported percentages are likely to increase as more data are received and processed.





### Non-Influenza Respiratory Viruses Update:

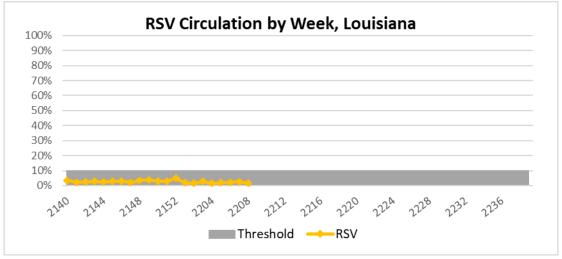
Surveillance for non-influenza respiratory virus surveillance is based on data from clinical laboratories statewide and testing done at the state public health laboratory. Data is collected on the following viruses: Rhino/Enterovirus (R/E), Adenovirus (ADV), Coronavirus (CoV), Human Metapneumovirus (MPV), Parainfluenza 1-4 (Para), and Respiratory Syncytial virus (RSV). RSV data is analyzed apart from other respiratory viruses due to the high prevalence of testing and seasonality of the virus.



RSV usually circulates during fall, winter, and spring, but the timing and severity of RSV season can vary from year to year. RSV season onset is defined as the first week of two consecutive weeks when the percent positive of ALL laboratory confirmed tests are greater than or equal to 10%. The end of RSV season is defined as the first of two consecutive weeks when the percent positive of ALL laboratory confirmed tests are less than 10%. *Information on National RSV surveillance can be found at:* <u>CDC RSV surveillance</u>

#### **RSV Season Status:**

OFF



### **Indicator Methodologies:**

Intensity/Severity Measurements: Intensity thresholds are calculated for activity measures to assess influenza season severity; for Louisiana these measurements are 1) ILI Activity, 2) Laboratory Activity, and 3) Mortality Data. Establishing these thresholds based on historical data allow epidemiologists to assign severity levels (low, moderate, high, very high) to weekly data points and overall seasons. This methodology was published in the <u>American Journal of Epidemiology</u>, October 2017.

| Season    | Severity Ranking |
|-----------|------------------|
| 2015-2016 | Low              |
| 2016-2017 | Low              |
| 2017-2018 | High             |
| 2018-2019 | Moderate         |
| 2019-2020 | Moderate         |
| 2020-2021 | *                |

\*Due to the COVID-19 pandemic the 2020-2021 season is excluded from calculating severity thresholds.

- ILI Activity Level Indicator: Collected ILI data is used to produce a measure of ILI activity by state. Activity levels are based on the percent of outpatient visits in a state due to ILI and are compared to the average percent of ILI visits that occur during weeks with little or no influenza virus circulation. Activity levels range from minimal, which would correspond to ILI activity from outpatient clinics being below, or only slightly above, the average, to high, which would correspond to ILI activity from outpatient clinics being much higher than average. Intensity does not measure geographic spread within the state. For example, outbreaks occurring in a single city could cause the state to display high activity levels.
- ILI Regional Baselines: Regional baselines are calculated by CDC at the beginning of the influenza season. Louisiana is in Region 6 which also includes: Arkansas, Texas, New Mexico, and Oklahoma. The Region 6 baseline for the 2021-2022 season is 3.6%. The regional baselines are developed by calculating the mean percentage of ILI visits during non-influenza weeks for the previous three seasons and adding two standard deviations. A non-influenza week is defined as periods of two or more consecutive weeks in which each week accounted for less than 2% of the season's total number of specimens that tested positive for influenza in public health laboratories.