

## Geographic Spread



South Carolina reported **widespread activity** this week. This is the **first** week at widespread activity.

## Influenza Activity



Overall, there was an **increase** in influenza activity this week.

## Regional Influenza Activity



Increase



No change



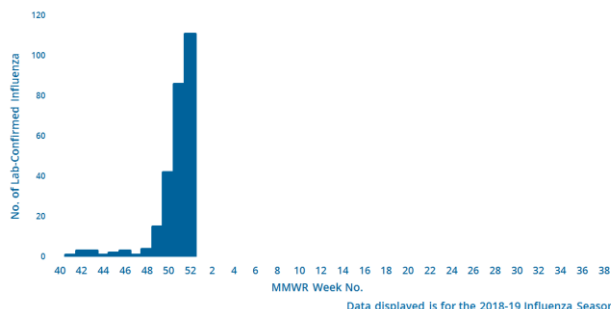
Increase



Increase

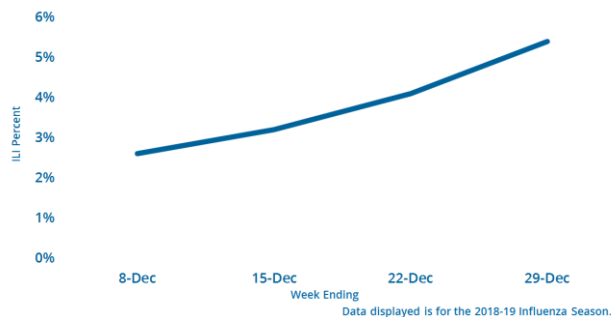
## Virologic Surveillance

This week there were **111** lab-confirmed tests reported. Influenza A was most frequently reported. In the current flu season, there has been **275** lab-confirmed tests reported.



## Influenza-Like Illness Surveillance

The percent of patient visits to sentinel providers for an influenza-like illness (ILI) was **5.38%**, which is **above** South Carolina's baseline (**3.53%**). The ILI activity level overall was **high**.



## Influenza-Associated Hospitalizations

This week **76** influenza-associated hospitalizations were reported by **39** hospitals. The cumulative hospitalization rate is **6.2 per 100,000**. In the current flu season, there have been **313** influenza-associated hospitalizations.

## Influenza-Associated Deaths

This week **0** influenza-associated deaths were reported. The cumulative mortality rate is **0.2 per 100,000**. In the current flu season, there have been **11** influenza-associated deaths.

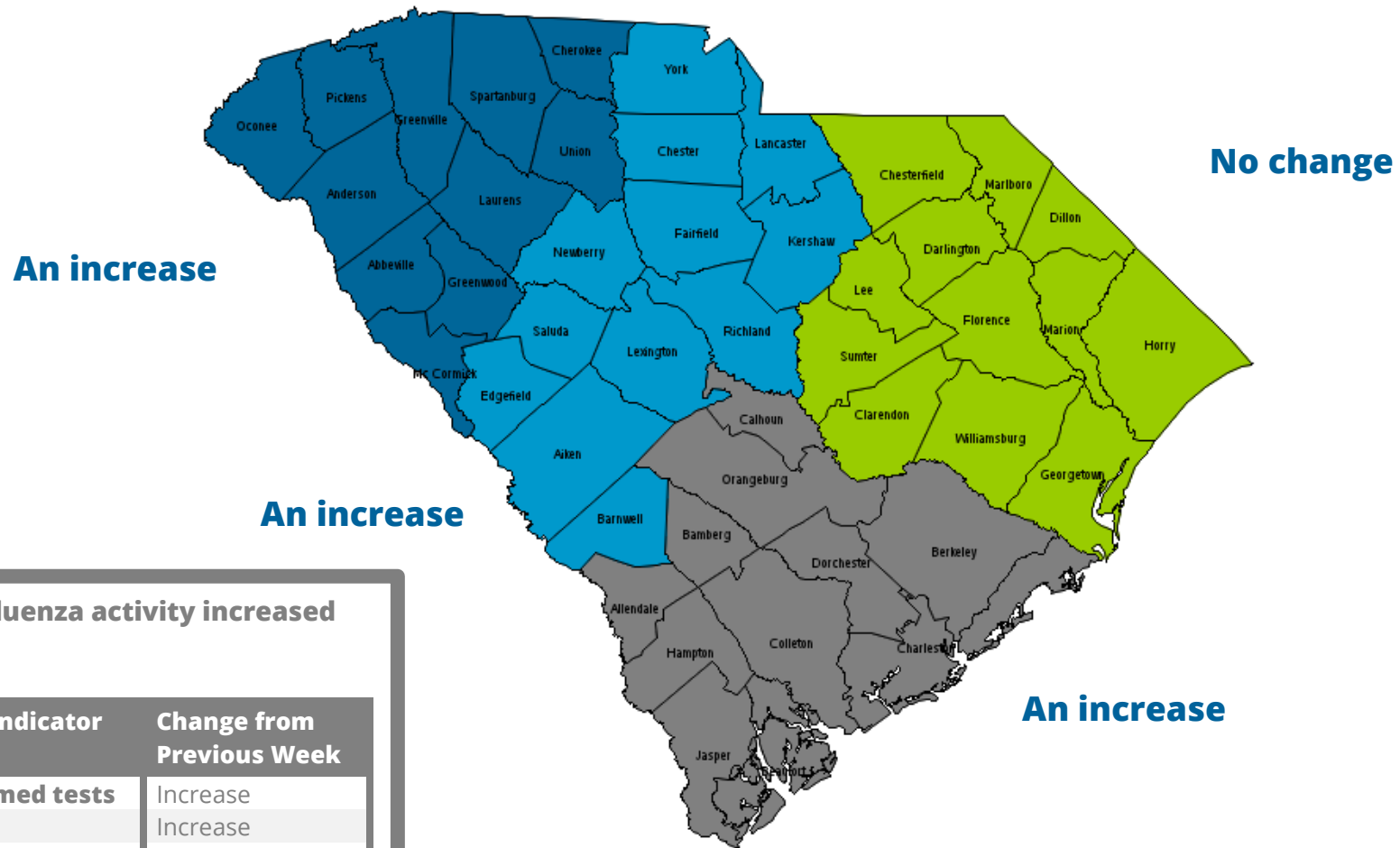
For a description of South Carolina's influenza surveillance components and definitions go to:

<http://www.scdhec.gov/Health/DiseasesandConditions/InfectiousDiseases/Flu/FluData/>

For national surveillance, please visit:  
<https://www.cdc.gov/flu/weekly/>

# Influenza Activity\*

In the 4 Public Health Regions, activity showed...



Overall influenza activity increased statewide.

| Influenza Indicator | Change from Previous Week |
|---------------------|---------------------------|
| Lab-confirmed tests | Increase                  |
| ILI Percent         | Increase                  |
| Hospitalizations    | Increase                  |

\*Indicators for assessing influenza activity include: lab-confirmed tests, ILI percent, and hospitalizations.

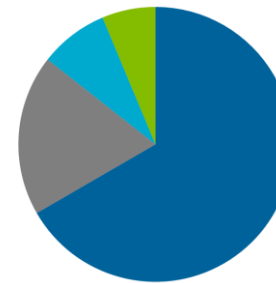
# Virologic Surveillance

| Influenza Type     | Season Totals To Date |                  |                  |                 |                  |
|--------------------|-----------------------|------------------|------------------|-----------------|------------------|
|                    | This Week             | 2018-19          | 2017-18          | 2016-17         | 5 season average |
| <b>Overall</b>     | <b>111</b>            | <b>275</b>       | <b>379</b>       | <b>111</b>      | <b>203</b>       |
| <b>Influenza A</b> | <b>104 (93.7)</b>     | <b>249(90.5)</b> | <b>322(83.5)</b> | <b>77(69.4)</b> | <b>181(89.2)</b> |
| A(H3)              | 9(8.6)                | 23(9.2)          | 96(29.8)         | 42(54.5)        | 62(34.2)         |
| A(H1N1)            | 21(20.2)              | 60(24.1)         | 21(6.5)          | 1(1.3)          | 45(25.1)         |
| A(NS)*             | 74(71.2)              | 166(66.7)        | 205(63.7)        | 34(44.2)        | 74(40.7)         |
| <b>Influenza B</b> | <b>7 (6.3)</b>        | <b>26(9.5)</b>   | <b>57(16.5)</b>  | <b>34(30.6)</b> | <b>22(10.8)</b>  |
| B (Victoria)       | --                    | --               | --               | --              | 0                |
| B (Yamagata)       | --                    | --               | 10(17.5)         | --              | 2(9.1)           |
| B (LND)*           | 7(100)                | 26(100)          | 47(82.5)         | 34(100)         | 20(90.9)         |

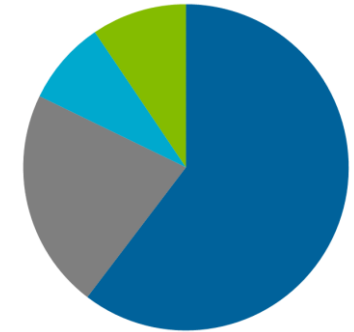
\*NS - not subtyped      \*LND - lineage not determined

Nationally, the influenza season begins with MMWR week 40 and ends with MMWR week 39. The 2018-19 influenza season began on September 30, 2018 and will end on September 28, 2019.

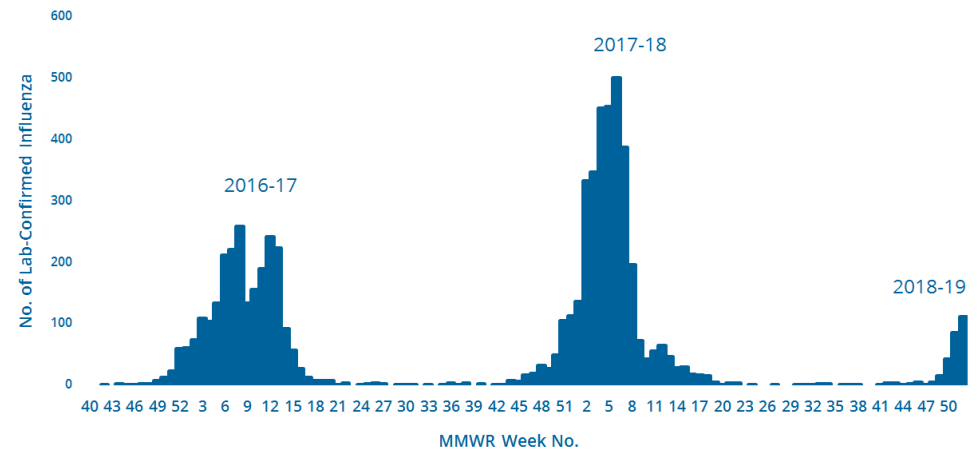
Week ending 12/29



Cumulative



■ A not subtyped ■ A(H1N1) ■ A (H3) ■ B (lineage not determined) ■ B (YAM) ■ B (VIC)



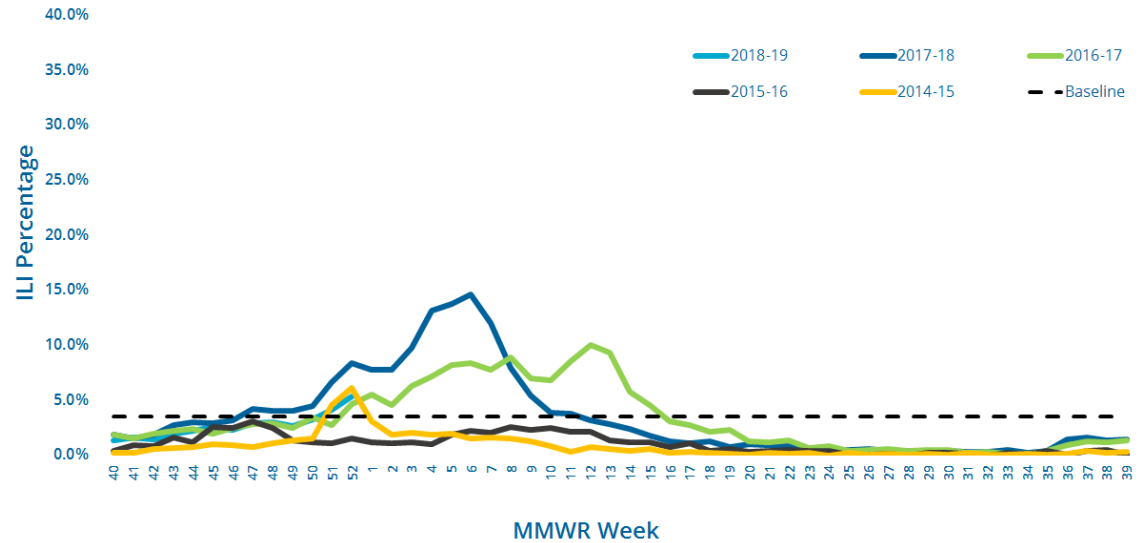
# Influenza-Like Illness Surveillance

This week, the ILI activity level was **high** and **5.38%** of patient visits to SC ILINet providers was attributed to an influenza-like illness. This is **above** the state baseline, **3.53%**.

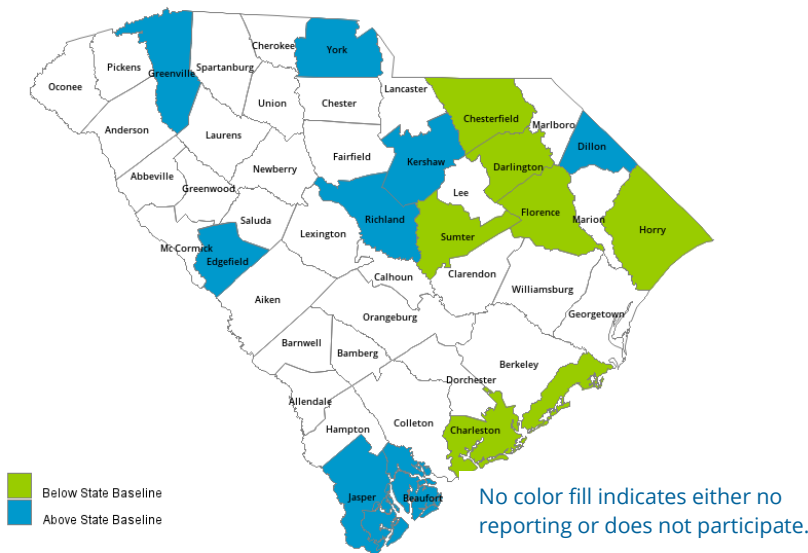
Reports were received from providers in 14 counties, representing all DHEC Public Health regions.

\*\*ILI percentage is dependent upon the number of reporting providers and/or can vary by disease activity or the number of providers submitting reports.\*\*

Percentage of Influenza-like Illness (ILI) Visits Reported by Sentinel Providers for Past and Current Seasons



County ILI Percent



State ILI Activity Level 2018-19 Calendar by Week of the Year

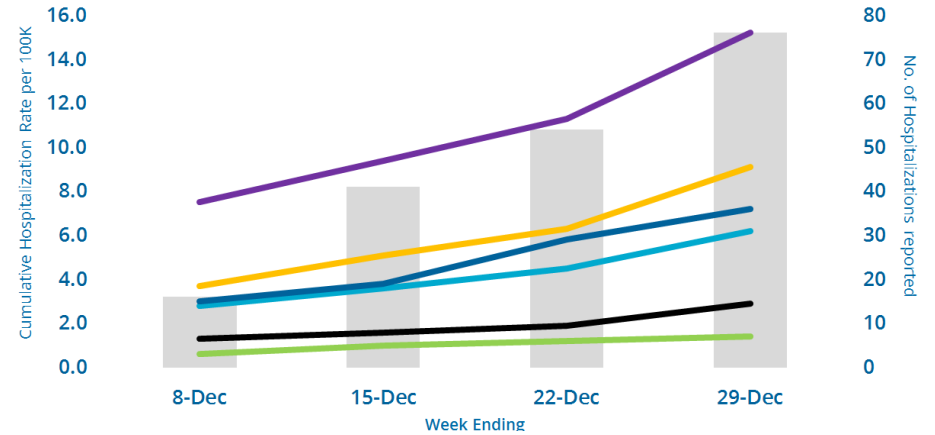
|    | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40 | 40  | 44  | 48  | 1   | 5   | 9   | 14  | 18  | 22  | 27  | 31  | 36  |
| 41 | 41  | 45  | 49  | 2   | 6   | 10  | 15  | 19  | 23  | 28  | 32  | 37  |
| 42 | 42  | 46  | 50  | 3   | 7   | 11  | 16  | 20  | 24  | 29  | 33  | 38  |
| 43 | 43  | 47  | 51  | 4   | 8   | 12  | 17  | 21  | 25  | 30  | 34  | 39  |
|    |     |     | 52  |     |     | 13  |     |     | 26  |     | 35  |     |

ILI ACTIVITY LEVELS: MINIMAL LOW MODERATE HIGH

# Influenza-Associated Hospitalizations And Deaths

| Hospitalizations<br>No. (Rate) | Overall   | Ages<br>0-4 | Ages<br>5-17 | Ages<br>18-49 | Ages<br>50-64 | Ages<br>65+ |
|--------------------------------|-----------|-------------|--------------|---------------|---------------|-------------|
| <b>This Week</b>               | 76(1.5)   | 4(1.4)      | 1(0.1)       | 19(0.9)       | 25(2.5)       | 27(3.1)     |
| <b>2018-19</b>                 | 313(6.2)  | 21(7.2)     | 11(1.4)      | 60(2.9)       | 91(9.1)       | 131(15.2)   |
| <b>2017-18</b>                 | 542(10.8) | 26(8.9)     | 26(3.2)      | 74(3.6)       | 108(10.8)     | 308(35.6)   |
| <b>2016-17</b>                 | 191(3.9)  | 11(3.8)     | 8(1.0)       | 37(1.8)       | 52(5.2)       | 83(10.0)    |
| <b>5 season average</b>        | 547(11.2) | 40(13.6)    | 28(3.5)      | 97(4.8)       | 123(12.6)     | 259(33.1)   |

| Deaths<br>No. (Rate)    | Overall | Ages<br>0-4 | Ages<br>5-17 | Ages<br>18-49 | Ages<br>50-64 | Ages<br>65+ |
|-------------------------|---------|-------------|--------------|---------------|---------------|-------------|
| <b>This Week</b>        | --      | --          | --           | --            | --            | --          |
| <b>2018-19</b>          | 11(0.2) | 1(0.3)      | --           | 1(0.0)        | 4(0.4)        | 5(0.6)      |
| <b>2017-18</b>          | 19(0.4) | --          | --           | --            | 2(0.2)        | 17(2.0)     |
| <b>2016-17</b>          | 5(0.1)  | --          | --           | 1(0.0)        | --            | 4(0.5)      |
| <b>5 season average</b> | 14(0.3) | 0           | 0            | 2(0.1)        | 2(0.2)        | 10(1.3)     |



Legend: Overall, Age 0-4, Age 5-17, Age 18-49, Age 50-64, Age 65 and older

Influenza-Associated Deaths by Region

