



## Delaware Weekly Influenza Report

MMWR WEEK 15 (APRIL 5, 2020- April 11, 2020)

### Delaware Division of Public Health

#### **National Influenza Synopsis 2019-2020:**

National data are updated Friday of each week. Please visit <http://www.cdc.gov/flu/weekly/> for the most current information. Geographic spread of influenza during MMWR WEEK 15 (April 5, 2020- April 11, 2020) was reported as follows:

- *Sporadic Influenza Activity* was reported in the U.S. Virgin Islands and 19 states (Alabama, Alaska, Arkansas, California, Connecticut, Florida, Hawaii, Iowa, Kentucky, Minnesota, Mississippi, Missouri, Nebraska, New York, North Dakota, South Dakota, Utah, Vermont and West Virginia).
- *Local Influenza Activity* was reported in the District of Columbia and 11 states (Colorado, Illinois, Kansas, Massachusetts, Michigan, Montana, Oregon, Pennsylvania, Texas, Washington and Wyoming)
- *Regional Influenza Activity* was reported in Puerto Rico and 13 states (Arizona, Georgia, Idaho, Maine, Nevada, New Hampshire, New Jersey, North Carolina, Ohio, Oklahoma, South Carolina, Tennessee and Wisconsin)
- *Widespread Influenza Activity* was reported in 3 states (Indiana, Louisiana, and Maryland)
- No Activity – four states (Delaware, New Mexico, Rhode Island and Virginia)
- Guam did not report.

#### **Summary of International Influenza Activity:**

- In the temperate zone of the northern hemisphere, influenza activity appeared to decrease overall.
  - In North America, influenza activity continued to decline but influenza-like illness (ILI) levels remained elevated.
  - In Europe, influenza activity decreased in most countries, but increased ILI activity was reported in some countries.
  - In Central Asia, influenza activity was low.
  - In Northern Africa, decreasing influenza activity was reported in Tunisia.
  - In Western Asia, influenza activity was low in most reporting countries.
  - In East Asia, ILI and influenza activity returned to baseline levels.
- In the Caribbean and Central American countries, influenza activity was reported in some countries. In Mexico, influenza activity continued to decrease, with influenza A(H1N1)pdm09 and B-Victoria lineage viruses co-circulating.
- In tropical South American countries, influenza activity decreased from the previous reporting period.
- In tropical Africa, influenza detections were low in most reporting countries.
- In Southern Asia, increased ILI activity was reported in Bhutan.
- In South East Asia, influenza activity decreased across reporting countries.
- In the temperate zones of the southern hemisphere, influenza activity remained at inter-seasonal levels.
- Worldwide, seasonal influenza A viruses accounted for the majority of detections.

**Reference:** World Health Organization (WHO), 2017. Influenza Update number 364 (03162020). Retrieved February 16, 2020, from [http://www.who.int/influenza/surveillance\\_monitoring/updates/latest\\_update\\_GIP\\_surveillance/en/](http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/). Reports are updated biweekly.

**Delaware Influenza Surveillance 2019-2020:**

During MMWR WEEK 15, there were 0 laboratory-confirmed cases of influenza reported among Delaware Residents. Reports of influenza-like-illness (ILI) received from participating providers, facilities, and institutions in Delaware show ILI is 0.0 % compared to Delaware’s 2019-2020 baseline of 1.9%. Nationally, 2.9% of visits to a healthcare provider were for ILI, which is a decrease from last week, and is still above the 2019-2020 national baseline of 2.4%. All regions are above baseline, but hospitalization rates differ by age group, with high rates among children and young adults.

**Level of Influenza Activity in Delaware, MMWR WEEK 15:**

|   |   |
|---|---|
| <b>No Activity:</b>   | Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state. |
| Influenza-like illness (ILI) is defined as patients presenting with fever of 100° F or greater, cough and/or sore throat in the absence of a known cause other than influenza.  |   |
| CDC Definitions:<br><b>No Activity:</b> No laboratory-confirmed cases of influenza and no reported increase in the number of cases of ILI.<br><b>Sporadic:</b> Small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.<br><b>Local:</b> Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.<br><b>Regional:</b> Outbreaks of influenza or increases in ILI and recent laboratory-confirmed influenza in at least two but less than half the regions of the state with recent laboratory evidence of influenza in those regions. <sup>3</sup><br><b>Widespread:</b> Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state. |   |

## **Summary of Figures for the MMWR WEEK 15 Report:**

**Table 1:** Influenza Season 2019-2020 – Vaccination Status

**Table 1A:** Comparison of the 2018-2019 MMWR WEEK 15 and the 2019-2020 MMWR WEEK 15 Confirmed Influenza Cases Reported Statewide by County and Age Group

**Table 1B:** Comparison of the 2018-2019 MMWR WEEK 15 and the 2019-2020 MMWR WEEK 15 Confirmed Influenza Cases Reported Statewide by County and subtype/lineage

**Figure 1:** Confirmed Cases of Influenza by Type and Subtype/Lineage, Delaware 2019-2020 Influenza Season

**Table 2:** Comparison of the 2018-2019 MMWR WEEK 15 and the 2019-2020 MMWR WEEK 15 Influenza-related Hospitalizations and Deaths

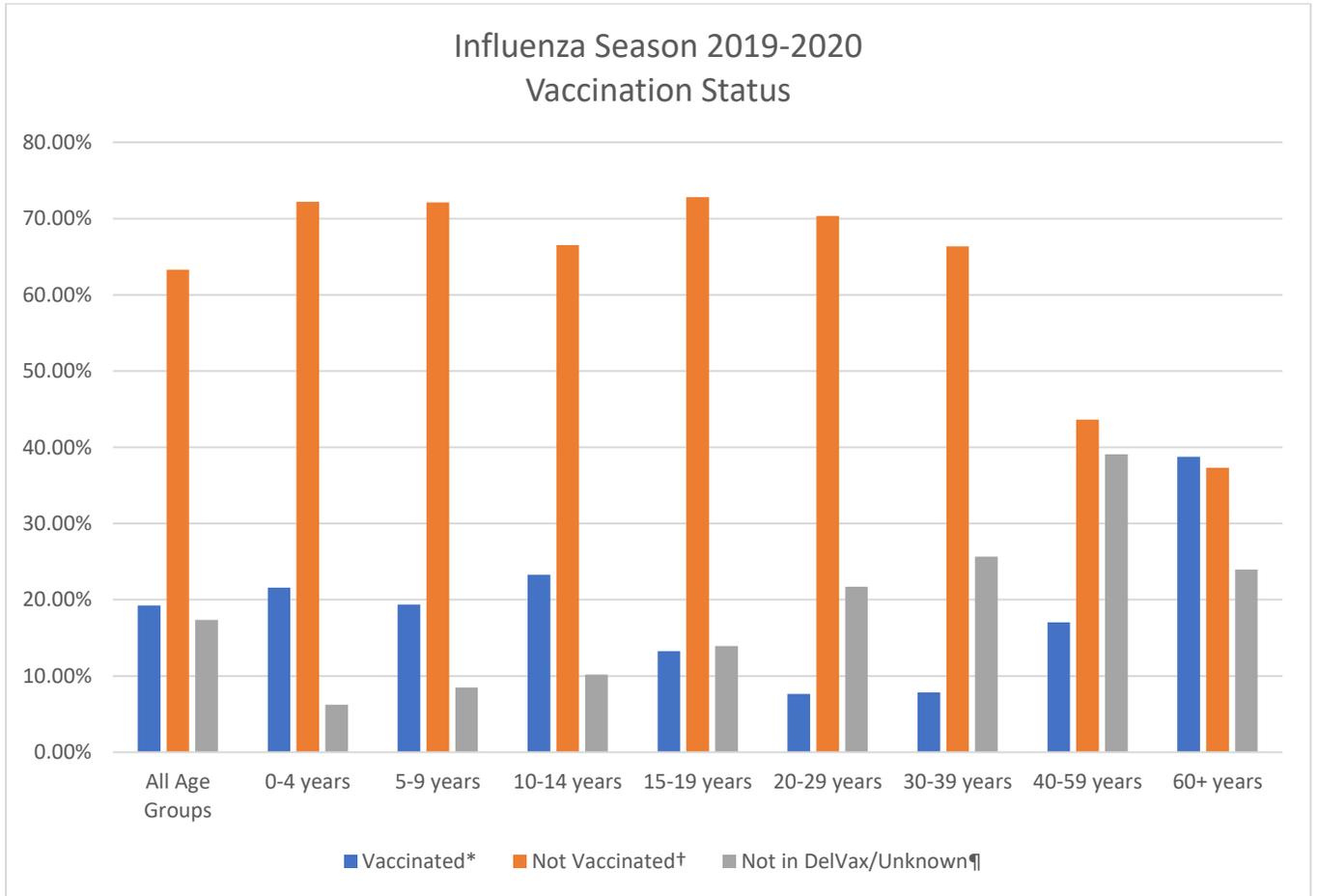
**Table 3:** Annual Number of Influenza Cases Reported by Flu Season, Delaware 2004-05 through 2019-20

**Figure 2:** Percentage of Visits for Influenza-Line Illness Reported by Sentinel Providers participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2019-2020

**Figure 3A:** Percentage of Emergency Department (ED) Visits Due to ILI/Influenza by MMWR Week, Delaware 2019-2020

**Figure 3B:** County-Specific Percentage of ED visits Due to ILI/Influenza by MMRW Week, Delaware 2019-2020

**Table 1: Influenza Season 2019-2020 – “Vaccination Status of Confirmed Cases”**



|   |
|---|
| *Received influenza vaccination this season per DelVax    |
| †Not vaccinated for influenza this season per DelVax      |
| ¶No record in the Delaware Immunization Registry (DelVax) |

**Table 1A:** Comparison of the 2018-2019 MMWR WEEK 15 and the 2019-2020 MMWR WEEK 15 Confirmed<sup>1</sup> Influenza Cases Reported Statewide by County and Age Group

| Confirmed Flu Cases by Age Group |       | 2018-2019 Influenza Season |              |                       |                  |                           | 2019-2020 Influenza Season |              |                       |                  |                           |
|----------------------------------|-------|----------------------------|--------------|-----------------------|------------------|---------------------------|----------------------------|--------------|-----------------------|------------------|---------------------------|
|                                  |       | WEEK 15                    | Total Counts | County Percentage (%) | YTD <sup>2</sup> | YTD County Percentage (%) | WEEK 15                    | Total Counts | County Percentage (%) | YTD <sup>2</sup> | YTD County Percentage (%) |
| STATEWIDE                        | 0-4   | 23                         | 111          |                       | 6318             |                           | 0                          |              | 7075                  |                  |                           |
|                                  | 5-9   | 7                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 10-14 | 8                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 15-19 | 3                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 20-29 | 13                         |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 30-39 | 6                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 40-59 | 16                         |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 60+   | 35                         |              |                       |                  |                           |                            |              |                       |                  |                           |
| New Castle County                | 0-4   | 7                          | 31           | 27.93                 | 2403             | 38.03                     | 0                          | 0            | 3186                  | 45.04            |                           |
|                                  | 5-9   | 2                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 10-14 | 1                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 15-19 | 1                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 20-29 | 4                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 30-39 | 0                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 40-59 | 5                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 60+   | 11                         |              |                       |                  |                           |                            |              |                       |                  |                           |
| Kent County                      | 0-4   | 5                          | 30           | 27.03                 | 1670             | 26.43                     | 0                          | 0            | 1810                  | 25.58            |                           |
|                                  | 5-9   | 5                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 10-14 | 5                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 15-19 | 2                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 20-29 | 2                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 30-39 | 3                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 40-59 | 5                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 60+   | 3                          |              |                       |                  |                           |                            |              |                       |                  |                           |
| Sussex County                    | 0-4   | 11                         | 50           | 45.05                 | 2245             | 35.53                     | 0                          | 0            | 2078                  | 29.37            |                           |
|                                  | 5-9   | 0                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 10-14 | 2                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 15-19 | 0                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 20-29 | 7                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 30-39 | 3                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 40-59 | 6                          |              |                       |                  |                           |                            |              |                       |                  |                           |
|                                  | 60+   | 21                         |              |                       |                  |                           |                            |              |                       |                  |                           |

<sup>1</sup>Influenza Cases are confirmed via PCR testing

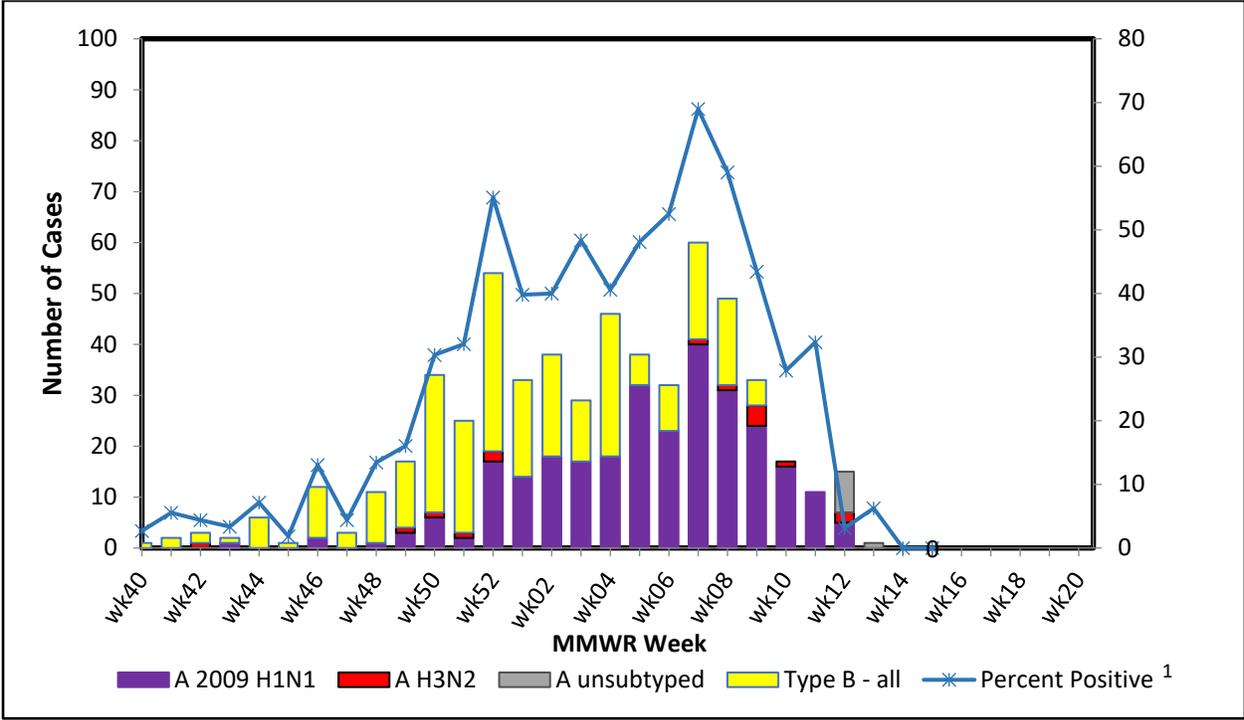
<sup>2</sup>YTD stands for “Year to Date” and represents the cumulative number of cases through the current MMWR Week being assessed for the 2018-19 and 2019-20 influenza seasons, respectively.

**Table 1B:** Comparison of the 2018-2019 MMWR WEEK 15 and the 2019-2020 MMWR WEEK 15 Confirmed<sup>1</sup> Influenza Cases Reported Statewide by County and subtype/lineage

| Confirmed Flu Cases by Subtype / Lineage |                           | 2018-2019 Influenza Season |              | 2019-2020 Influenza Season |              |
|--|---------------------------|----------------------------|--------------|----------------------------|--------------|
|  |                           | WEEK 15                    | Total Counts | WEEK 15                    | Total Counts |
| STATEWIDE                                | A / 2009 H1N1             | 3                          | 111          |                            | 0            |
|  | A / 2012 H3N2             | 22                         |              |                            |              |
|  | A / no subtype            | 77                         |              |                            |              |
|  | Co-infection              | 0                          |              |                            |              |
|  | B / Yamagata              | 0                          |              |                            |              |
|  | B / Victoria              | 1                          |              |                            |              |
|  | B / no lineage            | 8                          |              |                            |              |
| New Castle County                        | A / 2009 H1N1             |                            | 31           |                            | 0            |
|  | A / 2012 H3N2             | 11                         |              |                            |              |
|  | A / no subtype            | 20                         |              |                            |              |
|  | Co-infection              |                            |              |                            |              |
|  | B / Yamagata              |                            |              |                            |              |
|  | B / Victoria              |                            |              |                            |              |
|  | B / no lineage            |                            |              |                            |              |
| Kent County                              | A / 2009 H1N1             | 1                          | 30           |                            | 0            |
|  | A / 2012 H3N2             | 4                          |              |                            |              |
|  | A / no subtype            | 24                         |              |                            |              |
|  | Co-infection <sup>2</sup> |                            |              |                            |              |
|  | B / Yamagata              |                            |              |                            |              |
|  | B / Victoria              |                            |              |                            |              |
|  | B / no lineage            | 1                          |              |                            |              |
| Sussex County                            | A / 2009 H1N1             | 2                          | 50           |                            | 0            |
|  | A / 2012 H3N2             | 7                          |              |                            |              |
|  | A / no subtype            | 33                         |              |                            |              |
|  | Co-infection              |                            |              |                            |              |
|  | B / Yamagata              |                            |              |                            |              |
|  | B / Victoria              | 1                          |              |                            |              |
|  | B / no lineage            | 7                          |              |                            |              |

<sup>1</sup>Influenza Cases are confirmed via PCR testing

Confirmed Cases of Influenza by Type and Subtype/Lineage, Delaware 2019-2020 Influenza Season



**Figure 1:** During MMWR WEEK 15 for the 2019-2020 Influenza season, there was 0 confirmed case of Influenza reported by ILINet providers. The percent positive for samples tested was 0 %.

<sup>1</sup>Percent Positive represents the amount of specimens that tested positive for influenza out of all samples tested for that MMWR week.

**Table 2:** Comparison of the 2018-2019 MMWR WEEK 15 and the 2019-2020 MMWR WEEK 15  
Influenza-related Hospitalizations and Deaths Statewide

| Hospitalizations and Deaths due to Influenza | 2018-2019 Influenza Season |                         |  |  | 2019-2020 Influenza Season |                         |   |  |
|--|----------------------------|-------------------------|--|--|----------------------------|-------------------------|---|--|
|  | WEEK 15                    | YTD Totals <sup>1</sup> | Percentage of Confirmed Cases (%) <sup>2</sup> | YTD Percentage of Confirmed Cases (%) <sup>3</sup> | WEEK 15                    | YTD Totals <sup>1</sup> | Percentage of Confirmed Case (%) <sup>2</sup> | YTD Percentage of Confirmed Cases (%) <sup>3</sup> |
| Hospitalizations                             | 22                         | 867                     | 19.8   | 13.7   | 0                          | 362                     | 0   | 5.11   |
| Deaths                                       | 0                          | 17                      | 0  | .26  | 0                          | 11                      | 0   | .15  |

<sup>1</sup>YTD stands for “Year to Date” and represents the cumulative number of cases through the current MMWR Week that were hospitalized or died

<sup>2</sup>Percentage of cases confirmed during the single MMWR Week

<sup>3</sup>Percentage of cases for the cumulative count of confirmed cases through the influenza season to the current MMWR Week.

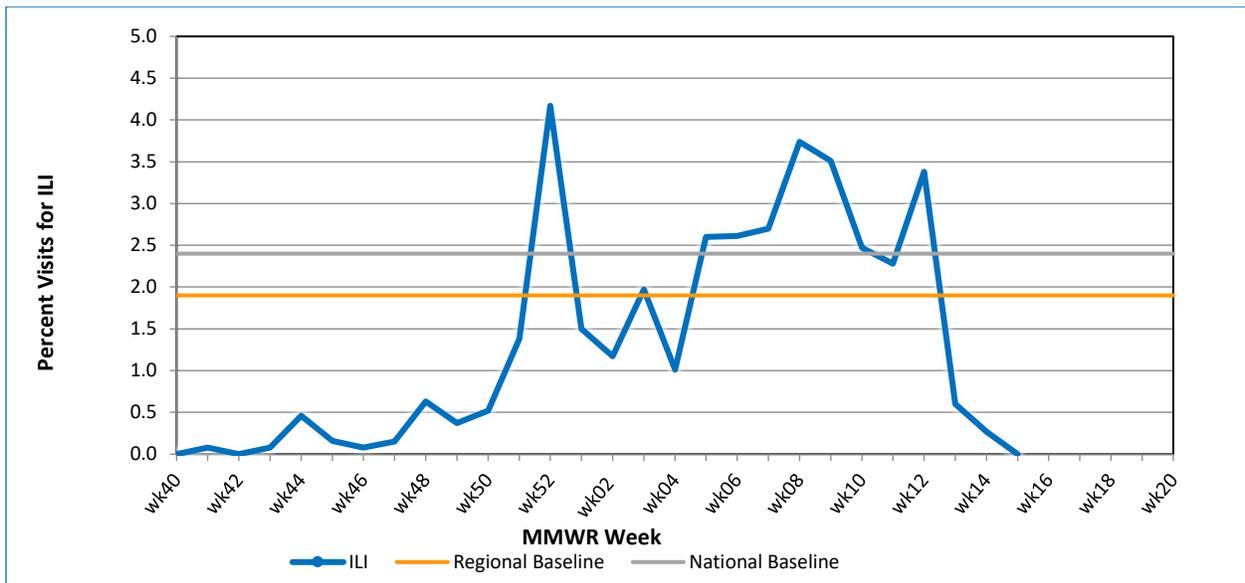
**Table 3:** Annual Number of Influenza Cases Reported by Flu Season, Delaware 2004-05 through 2019-20

| Influenza Season         | Total Annual Influenza Cases |
|--------------------------|------------------------------|
| 2004 – 2005              | 995                          |
| 2005 – 2006              | 541                          |
| 2006 – 2007              | 508                          |
| 2007 – 2008              | 1,401                        |
| 2008 – 2009              | 738                          |
| 2009 – 2010              | 2,247                        |
| 2010 – 2011              | 1,479                        |
| 2011 – 2012              | 267                          |
| 2012 – 2013              | 1,781                        |
| 2013 – 2014              | 1,842                        |
| 2014 – 2015              | 2,390                        |
| 2015 – 2016              | 1,842                        |
| 2016 – 2017              | 4,590                        |
| 2017 – 2018              | 9,050                        |
| 2018 – 2019              | 6,387                        |
| <b>2019 – 2020 (YTD)</b> | <b>7,075</b>                 |

## U.S. Outpatient Influenza-Like Illness Surveillance Network (ILINet) Sentinel Providers

An ILINet (sentinel) provider conducts surveillance for influenza-like illness (ILI) in collaboration with the Division of Public Health and the Centers for Disease Control and Prevention (CDC). Data reported by ILINet providers, in combination with other influenza surveillance data, provide a national and statewide picture of influenza activity in the U.S.

Percentage of Visits for Influenza-Like Illness Reported by Sentinel Providers<sup>1</sup> participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2019-2020



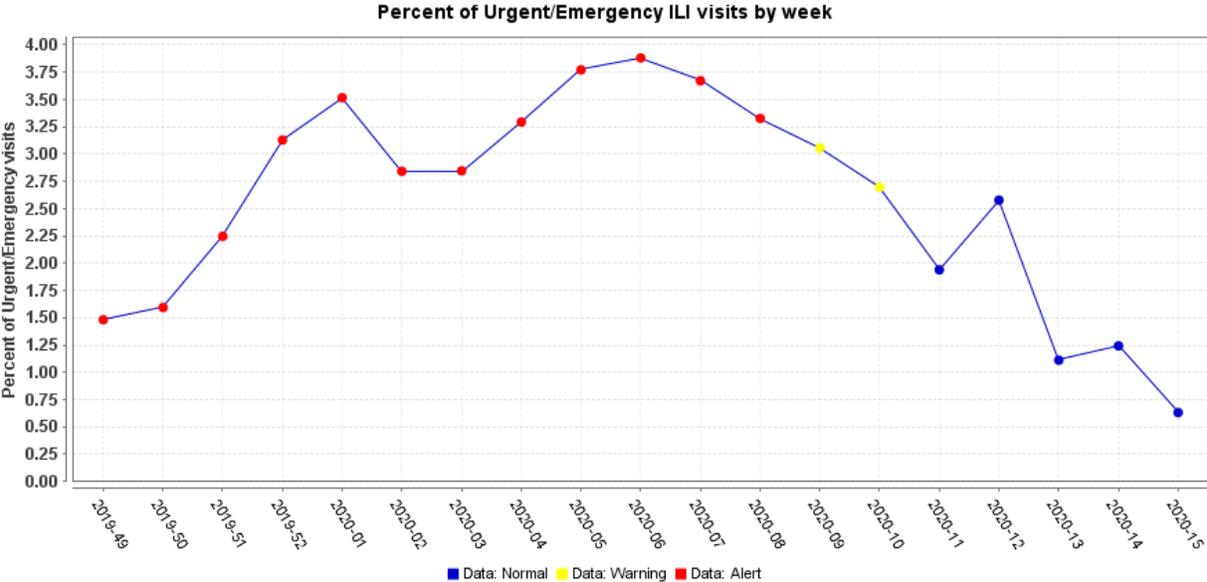
**Figure 2:** Delaware’s regional baseline<sup>2</sup> for healthcare visits relating to ILI symptoms in the 2019-2020 Influenza Season is 1.9% and the national baseline<sup>3</sup> is 2.4%. In MMWR WEEK 15, the amount of ILI related visits reported by sentinel providers increased from .26 % to .0% for WEEK 15.

<sup>1</sup>seven of twelve sentinel providers reported

<sup>2</sup>The regional baseline is calculated by the CDC using non-influenza weeks from the previous three influenza seasons. Delaware is in Region 3, which also includes DC, MD, PA, VA, and WV.

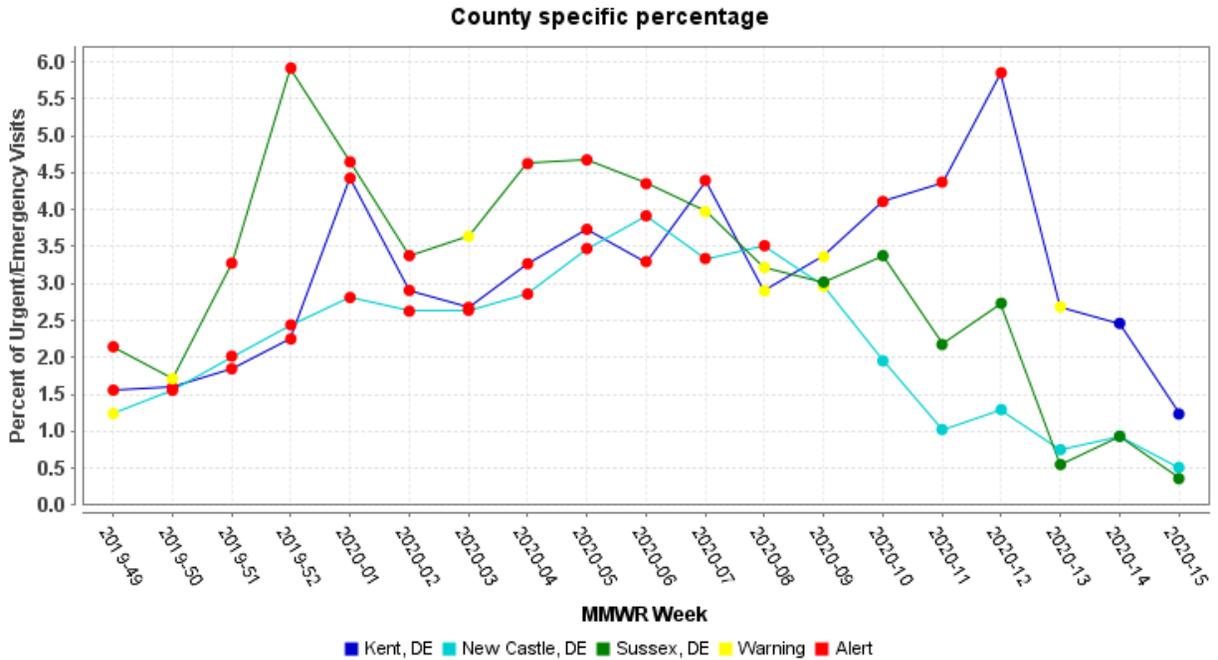
<sup>3</sup>The National baseline is calculated by the CDC using non-influenza weeks from the previous three influenza seasons.

Percentage of Emergency Care Visits Due to ILI/Influenza by MMWR Week, Delaware 2019-2020



**Figure 3A:** Syndromic data collected from ESSENCE shows that in the weeks preceding the start of the 2019-2020 Influenza season and through MMWR WEEK 15, there is a decreasing trend in the percentage of ED visits due to ILI/Flu symptoms.

County-Specific Percentage of ED visits Due to ILI/Influenza by MMRW Week, Delaware  
2019-20



**Figure 3B:** Syndromic data collected from ESSENCE shows that in the weeks preceding the start of the 2019-2020 Influenza season and through MMRW WEEK 15 stratified by Delaware’s three counties.

**NOTE:** Data provided do not reflect the total number of individuals who have been infected with the influenza virus in Delaware during the reporting period due to the following factors:

- Many people ill with influenza-like symptoms do not seek medical care.
- Many who do seek medical care are not tested for influenza.
- The Delaware Public Health Laboratory is limited by capacity to processing a maximum of three specimens per day from each reporting entity.

The Delaware Division of Public Health (DPH) is committed to serving you better by providing the most accurate, up-to-date influenza data available.

- For general information on influenza, visit [flu.delaware.gov](http://flu.delaware.gov) or <http://dhss.delaware.gov/dhss/dph/dpc/immunize-flu.html>.
- For specific information on DPH flu clinics, visit <http://dhss.delaware.gov/dhss/dph/fluclinics.html>.
- For questions on Delaware’s weekly flu report, call the DPH Office of Infectious Disease Epidemiology at 302-744-4990.
- For questions regarding influenza vaccination, please call 302-744-1060.