

# Delaware Weekly Influenza Report MMWR Week 15 (April 8 - 14, 2018) Delaware Division of Public Health

#### National Influenza Synopsis 2017-2018:

National data are updated Friday of each week. Please visit <a href="http://www.cdc.gov/flu/weekly/">http://www.cdc.gov/flu/weekly/</a> for the most current information. During MMWR Week 15 (April 8 – 14, 2018) influenza activity decreased in the United States. Overall, influenza A(H3) viruses have predominated this season. Since early March, influenza B viruses have been more frequently reported than influenza A viruses. The percentage of respiratory specimens testing positive for influenza in clinical laboratories decreased <a href="https://www.cdc.gov/flu/weekly/">Widespread influenza activity</a> was reported by five states (Connecticut, Delaware, Massachusetts, New York and Rhode Island). <a href="https://wew.cdc.gov/flu/weekly/">Regional influenza activity</a> was reported by five states (Connecticut, Delaware, Massachusetts, New York and Rhode Island). <a href="https://wew.cdc.gov/flu/weekly/">Regional influenza activity</a> was reported by Guam, Puerto Rico and 16 states (Alaska, Arizona, California, Kentucky, Maine, Montana, Nebraska, New Hampshire, New Jersey, North Dakota, Ohio, Pennsylvania, Vermont, Virginia, Washington and Wisconsin). <a href="https://www.cdc.gov/">Local influenza activity</a> was reported by 21 states (Arkansas, Colorado, Florida, Georgia, Idaho, Illinois, Iowa, Kansas, Louisiana, Maryland, Michigan, Minnesota, Missouri and New Mexico, North Carolina, Oklahoma, South Carolina, South Dakota, Utah, West Virginia and Wyoming). <a href="https://www.cdc.gov/">Sporadic influenza activity</a> was reported by the District of Columbia and six states (Hawaii, Indiana, Nevada, Oregon, Tennessee and Texas). <a href="https://www.cdc.gov/">No influenza activity</a> was reported by the U.S. Virgin Islands and two states (Alabama and Mississippi). Both national and state data are provisional and subject to change as additional reports are received.

### **Delaware Influenza Surveillance 2017-2018:**

During MMWR Week 15, there were 104 laboratory-confirmed cases of influenza reported among Delaware residents, bringing the total to 8,443 confirmed cases for the 2017-2018 season. Reports of influenza-like illness (ILI) received from participating providers, facilities and institutions in Delaware show ILI is 0.3% compared with Delaware's 2017-2018 baseline of 2.0%. Nationally, ILI is 1.8%, below the 2017-2018 national baseline of 2.2%.

# Level of Influenza Activity in Delaware, MMWR Week 15:

Widespread

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.

No Activity: No laboratory-confirmed cases of influenza and no reported increase in the number of cases of ILI.

**Sporadic:** 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.

**Local:** Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.

Regional: 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>

Widespread: 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.

<sup>&</sup>lt;sup>3</sup> Region = population under surveillance in a defined geographical subdivision of a state. Regions typically include several counties. Regional doesn't apply to states with < four counties.

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<sup>&</sup>lt;sup>1</sup> 2017-2018 Region 3 (DE, DC, MD, PA, VA and WV) baseline = 2.0%.

<sup>&</sup>lt;sup>2</sup> Laboratory-confirmed case = case confirmed by viral culture or PCR.

Table 1a. Influenza positive<sup>1</sup> cases reported<sup>2</sup> statewide and county by subtype (A) or lineage (B)<sup>3</sup>, Delaware 2017-18

|                      | rmed Flu<br>s by Subtype /<br>ge | Wk<br>40-<br>52 | Wk<br>1 | Wk<br>2 | Wk<br>3 | Wk<br>4 | Wk<br>5 | Wk<br>6 | Wk<br>7 | Wk<br>8 | Wk<br>9 | Wk<br>10 | Wk<br>11 | Wk<br>12 | Wk<br>13 | Wk<br>14 | Wk<br>15 | YTD   | YTD<br>Total | YTD<br>County<br>% |
|----------------------|----------------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|-------|--------------|--------------------|
|                      | A / 2009 H1N1                    | 17              | 4       | 15      | 16      | 32      | 45      | 37      | 43      | 17      | 18      | 6        | 3        | 1        | 2        | 0        | 0        | 256   |              |                    |
|                      | A / 2012 H3N2                    | 60              | 24      | 26      | 26      | 42      | 39      | 37      | 53      | 34      | 13      | 9        | 6        | 8        | 3        | 1        | 3        | 384   |              |                    |
| DE                   | A / no subtype                   | 223             | 109     | 238     | 246     | 446     | 682     | 823     | 885     | 469     | 190     | 87       | 68       | 51       | 36       | 16       | 19       | 4,588 |              |                    |
| STATEWIDE            | Co-infection                     | 0               | 1       | 1       | 5       | 5       | 6       | 8       | 3       | 4       | 1       | 1        | 0        | 0        | 0        | 0        | 0        | 35    | 8,443        |                    |
| TAT                  | B / Yamagata                     | 19              | 8       | 6       | 6       | 4       | 9       | 31      | 30      | 24      | 11      | 11       | 12       | 10       | 7        | 3        | 0        | 191   |              |                    |
| ò                    | B / Victoria                     | 1               | 1       | 0       | 2       | 5       | 1       | 11      | 12      | 12      | 17      | 9        | 6        | 3        | 5        | 2        | 3        | 90    |              |                    |
|                      | B / no lineage                   | 72              | 45      | 73      | 82      | 137     | 226     | 329     | 551     | 349     | 180     | 176      | 151      | 182      | 165      | 102      | 79       | 2,899 |              |                    |
|                      | A / 2009 H1N1                    | 8               | 1       | 4       | 6       | 7       | 18      | 14      | 20      | 6       | 12      | 2        | 2        | 1        | 0        | 0        | 0        | 101   |              |                    |
|                      | A / 2012 H3N2                    | 53              | 19      | 19      | 20      | 26      | 25      | 25      | 41      | 22      | 9       | 6        | 2        | 3        | 1        | 1        | 1        | 273   |              |                    |
| e te                 | A / no subtype                   | 45              | 39      | 109     | 98      | 137     | 182     | 279     | 270     | 144     | 54      | 27       | 17       | 19       | 5        | 8        | 1        | 1,434 |              |                    |
| New Castle<br>County | Co-infection                     | 0               | 1       | 0       | 3       | 2       | 0       | 2       | 1       | 2       | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 11    | 3,129        | 37.1%              |
| <u>≽</u> ც           | B / Yamagata                     | 14              | 8       | 5       | 6       | 3       | 8       | 25      | 22      | 17      | 10      | 8        | 7        | 5        | 3        | 1        | 0        | 142   |              |                    |
| _                    | B / Victoria                     | 1               | 1       | 0       | 2       | 5       | 1       | 11      | 9       | 9       | 15      | 7        | 4        | 2        | 4        | 1        | 1        | 73    |              |                    |
|                      | B / no lineage                   | 36              | 16      | 28      | 43      | 56      | 72      | 134     | 207     | 148     | 81      | 69       | 51       | 54       | 46       | 35       | 19       | 1,095 |              |                    |
|                      | A / 2009 H1N1                    | 6               | 3       | 8       | 6       | 18      | 17      | 20      | 17      | 5       | 4       | 3        | 0        | 0        | 2        | 0        | 0        | 109   |              |                    |
|                      | A / 2012 H3N2                    | 3               | 2       | 0       | 2       | 7       | 8       | 6       | 7       | 9       | 1       | 0        | 0        | 1        | 1        | 0        | 0        | 47    |              |                    |
| # ¥                  | A / no subtype                   | 64              | 26      | 48      | 65      | 154     | 212     | 247     | 257     | 116     | 38      | 20       | 13       | ത        | 7        | 0        | 5        | 1,281 |              |                    |
| Kent                 | Co-infection                     | 0               | 0       | 0       | 0       | 1       | 0       | 1       | 2       | 1       | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 5     | 2,093        | 24.8%              |
| "                    | B / Yamagata                     | 0               | 0       | 0       | 0       | 0       | 0       | 3       | 5       | 3       | 0       | 1        | 2        | 3        | 2        | 1        | 0        | 20    |              |                    |
|                      | B / Victoria                     | 0               | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 0        | 0        | 0        | 1        | 0        | 1        | 4     |              |                    |
|                      | B / no lineage                   | 6               | 10      | 12      | 21      | 19      | 54      | 64      | 140     | 76      | 35      | 32       | 24       | 43       | 42       | 26       | 23       | 627   |              |                    |
|                      | A / 2009 H1N1                    | 3               | 0       | 3       | 4       | 7       | 10      | 3       | 6       | 6       | 2       | 1        | 1        | 0        | 0        | 0        | 0        | 46    |              |                    |
|                      | A / 2012 H3N2                    | 4               | 3       | 7       | 4       | 9       | 6       | 6       | 5       | 3       | 3       | 3        | 4        | 4        | 1        | 0        | 2        | 64    |              |                    |
| it š                 | A / no subtype                   | 114             | 44      | 81      | 83      | 155     | 288     | 297     | 358     | 209     | 98      | 40       | 38       | 23       | 24       | 8        | 13       | 1,873 |              |                    |
| Sussex               | Co-infection                     | 0               | 0       | 1       | 2       | 2       | 6       | 5       | 0       | 1       | 1       | 1        | 0        | 0        | 0        | 0        | 0        | 19    | 3,221        | 38.2%              |
| ,,,                  | B / Yamagata                     | 5               | 0       | 1       | 0       | 1       | 1       | 3       | 3       | 4       | 1       | 2        | 3        | 2        | 2        | 1        | 0        | 29    |              |                    |
|                      | B / Victoria                     | 0               | 0       | 0       | 0       | 0       | 0       | 0       | 3       | 1       | 2       | 2        | 2        | 1        | 0        | 1        | 1        | 13    |              |                    |
|                      | B / no lineage                   | 30              | 19      | 33      | 18      | 62      | 100     | 131     | 204     | 125     | 64      | 75       | 76       | 85       | 77       | 41       | 37       | 1,177 |              |                    |

Table 1b. Influenza positive<sup>1</sup> cases reported<sup>2</sup> statewide and county by age group, Delaware 2017-18

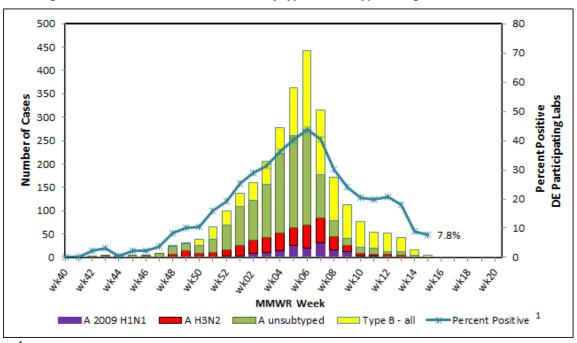
|                   | rmed Flu<br>s by Age<br>o | Wk<br>40-<br>52 | Wk<br>1 | Wk<br>2 | Wk<br>3 | Wk<br>4 | Wk<br>5 | Wk<br>6 | Wk<br>7 | Wk<br>8 | Wk<br>9 | Wk<br>10 | Wk<br>11 | Wk<br>12 | Wk<br>13 | Wk<br>14 | Wk<br>15 | YTD   | YTD<br>Total | YTD<br>County<br>% |
|-------------------|---------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|-------|--------------|--------------------|
|                   | 0-4 years                 | 39              | 19      | 47      | 58      | 122     | 181     | 258     | 300     | 191     | 87      | 61       | 44       | 54       | 46       | 28       | 23       | 1,558 |              |                    |
| STATEWIDE         | 5-24 years                | 77              | 32      | 81      | 103     | 212     | 390     | 492     | 619     | 334     | 147     | 136      | 96       | 79       | 59       | 29       | 21       | 2,907 |              |                    |
| Ē                 | 25-49 years               | 75              | 38      | 68      | 83      | 135     | 167     | 223     | 251     | 127     | 68      | 30       | 28       | 32       | 33       | 11       | 13       | 1,382 | 8,443        |                    |
| ΣŢ                | 50-64 years               | 79              | 37      | 56      | 62      | 96      | 116     | 127     | 164     | 105     | 45      | 32       | 28       | 29       | 36       | 25       | 21       | 1,058 |              |                    |
|                   | 65+ years                 | 122             | 66      | 107     | 77      | 106     | 154     | 176     | 243     | 152     | 83      | 40       | 50       | 61       | 44       | 31       | 26       | 1,538 |              |                    |
|                   | 0-4 years                 | 17              | 8       | 13      | 25      | 36      | 49      | 117     | 120     | 96      | 44      | 27       | 17       | 29       | 20       | 12       | 9        | 639   | 3,129 3      |                    |
| Castle            | 5-24 years                | 32              | 15      | 37      | 48      | 70      | 99      | 162     | 204     | 114     | 59      | 45       | 29       | 22       | 13       | 11       | 3        | 963   |              | 37.1%              |
| ew Cast<br>County | 25-49 years               | 36              | 12      | 33      | 37      | 51      | 52      | 90      | 95      | 38      | 22      | 9        | 12       | 8        | 9        | 4        | 2        | 510   |              |                    |
| New               | 50-64 years               | 30              | 18      | 33      | 27      | 35      | 52      | 59      | 56      | 37      | 18      | 15       | 8        | 9        | 9        | 9        | 6        | 421   |              |                    |
| _                 | 65+ years                 | 42              | 32      | 49      | 41      | 44      | 54      | 62      | 95      | 63      | 38      | 23       | 17       | 16       | 8        | 10       | 2        | 596   |              |                    |
|                   | 0-4 years                 | 6               | 4       | 14      | 15      | 48      | 64      | 71      | 85      | 39      | 22      | 12       | 9        | 5        | 9        | 5        | 4        | 412   |              |                    |
| _                 | 5-24 years                | 18              | 9       | 15      | 29      | 64      | 116     | 145     | 177     | 81      | 20      | 24       | 13       | 21       | 15       | 7        | 6        | 760   |              |                    |
| Kent              | 25-49 years               | 10              | 12      | 14      | 20      | 34      | 51      | 60      | 77      | 39      | 16      | 10       | 4        | 9        | 9        | 3        | 5        | 373   | 2,093        | 24.8%              |
| ¥ §               | 50-64 years               | 17              | 7       | 10      | 17      | 25      | 24      | 26      | 40      | 28      | 7       | 7        | 6        | 6        | 9        | 6        | 4        | 239   |              |                    |
|                   | 65+ years                 | 28              | 9       | 15      | 13      | 28      | 36      | 39      | 49      | 25      | 13      | 3        | 7        | 15       | 13       | 6        | 10       | 309   |              |                    |
|                   | 0-4 years                 | 16              | 7       | 20      | 18      | 38      | 68      | 70      | 95      | 56      | 21      | 22       | 18       | 20       | 17       | 11       | 10       | 507   | 3,221        |                    |
| Sussex            | 5-24 years                | 27              | 8       | 29      | 26      | 78      | 175     | 185     | 238     | 139     | 68      | 67       | 54       | 36       | 31       | 11       | 12       | 1,184 |              | 38.2%              |
| Sus               | 25-49 years               | 29              | 14      | 21      | 26      | 50      | 64      | 73      | 79      | 50      | 30      | 11       | 12       | 15       | 15       | 4        | 6        | 499   |              |                    |
| ,,,,              | 50-64 years               | 32              | 12      | 13      | 18      | 36      | 40      | 42      | 68      | 40      | 20      | 10       | 14       | 14       | 18       | 10       | 11       | 398   |              |                    |
|                   | 65+ years                 | 52              | 25      | 43      | 23      | 34      | 64      | 75      | 99      | 64      | 32      | 14       | 26       | 30       | 23       | 15       | 14       | 633   |              |                    |

<sup>&</sup>lt;sup>1</sup> Based on patients with positive nucleic acid or viral culture test results reported to the Division of Public Health.

<sup>&</sup>lt;sup>2</sup> Reports are by the date the laboratory results are obtained. As a result, prior weeks' counts may be adjusted to reflect additional cases received.

<sup>&</sup>lt;sup>3</sup> The Division of Public Health Laboratory now has the capability to identify lineage for Influenza B. Since some laboratories in the state do not have this capability, those influenza cases will be categorized as Influenza B, no lineage identified.

Figure 1. Confirmed cases<sup>1</sup> of influenza by type and subtype/lineage, Delaware 2017-18\*



Based on patients with positive nucleic acid or viral culture test results reported to the Delaware Division of Public Health. Data Source: Season 2017 - 2018 Influenza Positive Specimens from Delaware, Reported by WHO/NREVSS Collaborating Laboratories

Table 2. Influenza-related hospitalizations statewide and county, by age group, Delaware 2017-18

|                      | italized Flu<br>s by Age | Wk<br>40-<br>52 | Wk<br>1 | Wk<br>2 | Wk<br>3 | Wk<br>4 | Wk<br>5 | Wk<br>6 | Wk<br>7 | Wk<br>8 | Wk<br>9 | Wk<br>10 | Wk<br>11 | Wk<br>12 | Wk<br>13 | Wk<br>14 | Wk<br>15 | YTD | YTD<br>Total | YTD<br>County<br>% |
|----------------------|--------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|-----|--------------|--------------------|
|                      | 0-4 years                | 3               | 1       | 0       | 1       | 8       | 8       | 17      | 5       | 7       | 4       | 3        | 2        | 2        | 3        | 2        | 2        | 68  |              |                    |
| STATEWIDE            | 5-24 years               | 4               | 1       | 1       | 2       | 4       | 6       | 7       | 7       | 7       | 3       | 6        | 3        | 2        | 0        | 1        | 1        | 55  |              |                    |
| Ī                    | 25-49 years              | 6               | 2       | 10      | 4       | 6       | 8       | 20      | 11      | 9       | 7       | 6        | 3        | 1        | 0        | 1        | 0        | 94  | 1,191        |                    |
| TA.                  | 50-64 years              | 24              | 11      | 16      | 10      | 21      | 19      | 27      | 35      | 24      | 14      | 11       | 4        | 7        | 3        | 8        | 5        | 239 |              |                    |
| 0,                   | 65+ years                | 57              | 37      | 59      | 40      | 56      | 74      | 85      | 100     | 66      | 45      | 19       | 27       | 25       | 21       | 16       | 8        | 735 |              |                    |
|                      | 0-4 years                | 2               | 1       | 0       | 1       | 7       | 4       | 15      | 4       | 6       | 2       | 3        | 2        | 1        | 1        | 2        | 2        | 53  |              |                    |
| y te                 | 5-24 years               | 3               | 1       | 1       | 2       | 2       | 6       | 5       | 5       | 4       | 2       | 6        | 3        | 1        | 0        | 1        | 1        | 43  | 660          |                    |
| w Cast<br>County     | 25-49 years              | 6               | 0       | 6       | 3       | 5       | 3       | 13      | 7       | 2       | 1       | 2        | 3        | 1        | 0        | 1        | 0        | 53  |              | 55.4%              |
| New Castle<br>County | 50-64 years              | 14              | 8       | 13      | 8       | 8       | 13      | 17      | 16      | 11      | 11      | 7        | 3        | 3        | 2        | 3        | 2        | 139 |              |                    |
| z                    | 65+ years                | 29              | 23      | 32      | 23      | 23      | 35      | 44      | 48      | 35      | 28      | 15       | 13       | 11       | 4        | 7        | 2        | 372 |              |                    |
|                      | 0-4 years                | 0               | 0       | 0       | 0       | 1       | 4       | 0       | 1       | 0       | 2       | 0        | 0        | 0        | 0        | 0        | 0        | 8   |              |                    |
|                      | 5-24 years               | 0               | 0       | 0       | 0       | 1       | 0       | 1       | 2       | 2       | 1       | 0        | 0        | 0        | 0        | 0        | 0        | 7   |              |                    |
| Kent<br>County       | 25-49 years              | 0               | 2       | 1       | 0       | 0       | 4       | 5       | 2       | 6       | 4       | 3        | 0        | 0        | 0        | 0        | 0        | 27  | 252          | 21.2%              |
| 국 호                  | 50-64 years              | 4               | 2       | 3       | 1       | 8       | 3       | 3       | 10      | 5       | 1       | 2        | 0        | 3        | 0        | 2        | 1        | 48  |              |                    |
|                      | 65+ years                | 14              | 5       | 10      | 4       | 18      | 22      | 21      | 23      | 11      | 9       | 0        | 4        | 6        | 7        | 5        | 3        | 162 |              |                    |
|                      | 0-4 years                | 1               | 0       | 0       | 0       | 0       | 0       | 2       | 0       | 1       | 0       | 0        | 0        | 1        | 2        | 0        | 0        | 7   |              |                    |
| nty sex              | 5-24 years               | 1               | 0       | 0       | 0       | 1       | 0       | 1       | 0       | 1       | 0       | 0        | 0        | 1        | 0        | 0        | 0        | 5   | 279          |                    |
| Sussex               | 25-49 years              | 0               | 0       | 3       | 1       | 1       | 1       | 2       | 2       | 1       | 2       | 1        | 0        | 0        | 0        | 0        | 0        | 14  |              | 23.4%              |
| 0, 0                 | 50-64 years              | 6               | 1       | 0       | 1       | 5       | 3       | 7       | 9       | 8       | 2       | 2        | 1        | 1        | 1        | 3        | 2        | 52  |              |                    |
|                      | 65+ years                | 14              | 9       | 17      | 13      | 15      | 17      | 20      | 29      | 20      | 8       | 4        | 10       | 8        | 10       | 4        | 3        | 201 |              |                    |

Table 3. Influenza-related deaths, Delaware 2017-18

| Influenza-<br>Related<br>Deaths | Wk<br>40-<br>52 | Wk<br>1 | Wk<br>2 | Wk<br>3 | Wk<br>4 | Wk<br>5 | Wk<br>6 | Wk<br>7 | Wk<br>8 | Wk<br>9 | Wk<br>10 |   | Wk<br>12 | Wk<br>13 | Wk<br>14 | Wk<br>15 | YTD |
|---------------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---|----------|----------|----------|----------|-----|
|                                 | 1               | 0       | 1       | 1       | 0       | 3       | 7       | 6       | 6       | 4       | 0        | 1 | 1        | 2        | 0        | 0        | 34  |

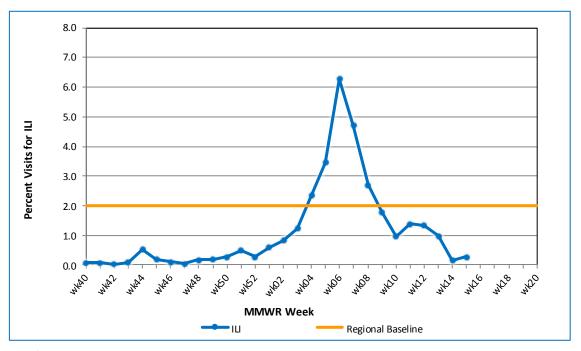
Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-05 through 2017-18

| Influenza Season  | Total Annual<br>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 (YTD) | 8,443                           |

### 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.

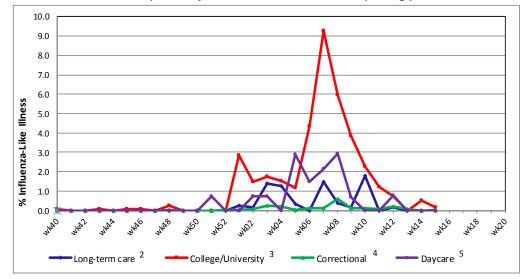
Figure 2. Percentage of visits for influenza-like illness reported by sentinel providers<sup>1</sup> participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2017-18



<sup>&</sup>lt;sup>1</sup> Eleven of 13 sentinel providers reported.

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

Figure 3. Influenza-like illness reported by influenza surveillance ILI reporting partners<sup>1</sup>, Delaware 2017-18



<sup>&</sup>lt;sup>1</sup> ILINet reporting partners include long-term care facilities, colleges / universities, correctional facilities and daycare facilities.

Figure 4a. Percentage of emergency department (ED) visits due to ILI/Flu by MMWR Week, Delaware 2017-18

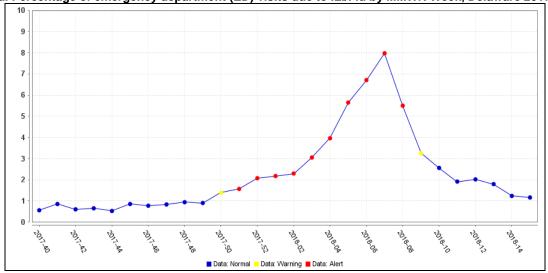
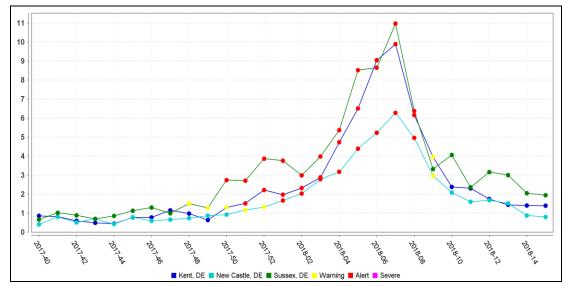


Figure 4b. County-specific percentages of ED visits due to ILI/Flu by MMWR Week, Delaware 2017-18



 $<sup>^2</sup>$  % ILI= percentage of residents with ILI symptoms: Seven long-term care facilities reported.

 $<sup>^{3}</sup>$  % ILI= percentage of student visits for ILI; Two universities reported.

 $<sup>^4</sup>$  % ILI= percentage of visits for ILI at the correctional facility; Nine correctional facilities reported.

 $<sup>^{\</sup>rm 5}$  % ILI= percentage of children absent with ILI; One daycare provider reported.

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

Influenza activity decreased in most of the countries in the temperate zone of the northern hemisphere, with exception of Eastern Europe where activity continued to increase. In the temperate zone of the southern hemisphere, influenza activity remained at inter-seasonal levels. Worldwide, influenza A and influenza B accounted for a similar proportion of influenza detections.

In North America, influenza activity continued to decrease. Influenza indicators continued to decrease in Canada and the United States, with influenza B virus most frequently detected in the former and influenza A(H3N2) and influenza B viruses co-circulating in the latter. In Mexico, influenza activity was reported as decreased, with detection of all seasonal influenza subtypes.

In the Caribbean, influenza activity increased in general. In the Dominican Republic, influenza activity appeared to increase with influenza A(H1N1)pdm09 predominating. In Central American countries, influenza activity remained low in general. Influenza detections increased slightly in Guatemala and Honduras.

In the European region, influenza viruses continued to circulate widely, but most of the countries reported low to medium intensity. In Eastern Europe, influenza activity continued to increase with detections of influenza A and B viruses. In particular, influenza activity remained high in Latvia and the Russian Federation. In Northern and South West Europe, influenza A and B virus detections continued to decrease.

In Northern Africa, influenza activity decreased across most of the region, with the exception of Egypt where detections remained high. In Western Africa, influenza activity remained low across the region. In Middle Africa, sporadic cases were reported in the Central African Republic. In Eastern Africa, influenza activity decreased in Madagascar and in the United Republic of Tanzania and detections of A(H1N1)pdm09 virus were reported in Mozambique.

In Western Asia, influenza activity appeared to decrease across the region, with all seasonal influenza subtypes present in the region. In Central Asia, influenza activity decreased across the region, although Kazakhstan reported high number of influenza detections in recent weeks. In East Asia, influenza activity decreased across the region. In Northern and Southern China influenza detections continued to decrease, with influenza A(H1N1)pdm09 and influenza B viruses predominating. Low influenza activity was reported in Japan and the Republic of Korea. In Southern Asia, influenza activity remained low in general, based on the countries reporting in this period. In Southeast Asia, influenza activity appeared to be low across the region.

Overall in the temperate zone of the Southern Hemisphere, influenza activity remained at inter-seasonal levels in most countries.

**Reference:** World Health Organization (WHO), 2017. Influenza Update number 313 (4/16/18). Retrieved April 20, 2018, from <a href="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/</a>. Reports are updated biweekly.

**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 <a href="flu.delaware.gov">flu.delaware.gov</a> or <a href="http://dhss.delaware.gov/dhss/dph/dpc/immunize-flu.html">http://dhss.delaware.gov/dhss/dph/dpc/immunize-flu.html</a>.
- > For specific information on DPH flu clinics, visit <a href="http://dhss.delaware.gov/dhss/dph/fluclinics.html">http://dhss.delaware.gov/dhss/dph/fluclinics.html</a>.
- > For questions on Delaware's weekly flu report, call the DPH Office of Infectious Disease Epidemiology: 302-744-4990.
- ➤ For questions regarding influenza vaccination, please call 302-744-1060.