



Delaware Weekly Influenza Report

MMWR Week 11 (March 11 – 17, 2018)

Delaware Division of Public Health

National Influenza Synopsis 2017-2018:

National data are updated Friday of each week. Please visit <http://www.cdc.gov/flu/weekly/> for the most current information. During MMWR Week 11 (March 11 - 17, 2018) influenza activity decreased in the United States. Overall, influenza A(H3) viruses have predominated this season. However, in recent weeks the proportion of influenza A viruses has declined, and during week 11, influenza B viruses were more frequently reported than influenza A viruses. The percentage of respiratory specimens testing positive for influenza in clinical laboratories decreased. **Widespread influenza activity** was reported by 17 states (Alaska, California, Connecticut, Delaware, Indiana, Maine, Maryland, Massachusetts, Nebraska, New Hampshire, New Jersey, New York, Ohio, Oklahoma, Rhode Island, Virginia and Wisconsin). **Regional influenza activity** was reported by Guam, Puerto Rico and 26 states (Alabama, Arizona, Arkansas, Colorado, Florida, Georgia, Idaho, Illinois, Iowa, Kansas, Kentucky, Michigan, Minnesota, Mississippi, Missouri, Montana, New Mexico, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, Utah, Washington and Wyoming). **Local influenza activity** was reported by the District of Columbia and five states (Louisiana, Nevada, Oregon, Tennessee and West Virginia). **Sporadic influenza activity** was reported by the U.S. Virgin Islands and two states (Hawaii and Vermont). Both national and state data are provisional and subject to change as additional reports are received.

Delaware Influenza Surveillance 2017-2018:

During MMWR Week 11, there were 216 laboratory-confirmed cases of influenza reported among Delaware residents, bringing the total to 7,651 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 1.4% compared with Delaware's 2017-2018 baseline of 2.0%. Nationally, ILI is 2.7% compared with the 2017-2018 national baseline of 2.2%.

Level of Influenza Activity in Delaware, MMWR Week 11:

| | |
|--|---|
| 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. | |
| <p>No Activity: No laboratory-confirmed cases of influenza and no reported increase in the number of cases of ILI.</p> <p>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.</p> <p>Local: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of the state.</p> <p>Regional: <i>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.</i>³</p> <p>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.</p> | |

¹ 2017-2018 Region 3 (DE, DC, MD, PA, VA and WV) baseline = 2.0%.

² Laboratory-confirmed case = case confirmed by viral culture or PCR.

³ 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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Table 1a. Influenza positive¹ cases reported² statewide and county by subtype (A) or lineage (B)³, Delaware 2017-18

| Confirmed Flu Cases by Subtype / Lineage | Wk 40-49 | Wk 50 | Wk 51 | Wk 52 | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk 9 | Wk 10 | Wk 11 | YTD | YTD Total | YTD County % | |
|--|----------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|--------------|--------------|--------------|
| STATEWIDE | A / 2009 H1N1 | 4 | 2 | 3 | 8 | 4 | 15 | 16 | 32 | 45 | 37 | 43 | 16 | 18 | 5 | 2 | 250 | 7,651 | |
| | A / 2012 H3N2 | 26 | 9 | 11 | 14 | 23 | 27 | 25 | 42 | 39 | 37 | 53 | 34 | 12 | 8 | 3 | 363 | | |
| | A / no subtype | 44 | 31 | 59 | 81 | 110 | 238 | 247 | 447 | 685 | 825 | 876 | 465 | 191 | 86 | 65 | 4,448 | | |
| | Co-infection | 0 | 0 | 0 | 0 | 1 | 1 | 5 | 4 | 5 | 8 | 3 | 4 | 1 | 1 | 0 | 35 | | |
| | B / Yamagata | 1 | 3 | 7 | 8 | 8 | 6 | 6 | 4 | 9 | 31 | 29 | 24 | 11 | 11 | 9 | 167 | | |
| | B / Victoria | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 5 | 1 | 11 | 13 | 13 | 17 | 8 | 5 | 77 | | |
| | B / no lineage | 6 | 4 | 18 | 32 | 44 | 72 | 82 | 137 | 224 | 327 | 543 | 345 | 174 | 171 | 132 | 2,311 | | |
| New Castle County | A / 2009 H1N1 | 3 | 1 | 0 | 4 | 1 | 4 | 6 | 7 | 18 | 14 | 20 | 6 | 12 | 2 | 1 | 99 | 2,904 | 38.0% |
| | A / 2012 H3N2 | 22 | 9 | 9 | 13 | 19 | 20 | 20 | 26 | 25 | 25 | 41 | 22 | 8 | 6 | 1 | 266 | | |
| | A / no subtype | 17 | 2 | 10 | 16 | 39 | 108 | 98 | 138 | 182 | 280 | 272 | 141 | 54 | 26 | 19 | 1,402 | | |
| | Co-infection | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 11 | | |
| | B / Yamagata | 1 | 2 | 6 | 5 | 8 | 5 | 6 | 3 | 8 | 25 | 21 | 17 | 10 | 8 | 5 | 130 | | |
| | B / Victoria | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 5 | 1 | 11 | 10 | 10 | 15 | 6 | 3 | 65 | | |
| | B / no lineage | 3 | 1 | 10 | 22 | 16 | 28 | 43 | 55 | 72 | 133 | 206 | 147 | 77 | 68 | 50 | 931 | | |
| Kent County | A / 2009 H1N1 | 1 | 0 | 2 | 3 | 3 | 8 | 6 | 18 | 17 | 20 | 17 | 4 | 4 | 2 | 0 | 105 | 1,914 | 25.0% |
| | A / 2012 H3N2 | 2 | 0 | 0 | 1 | 2 | 0 | 2 | 7 | 8 | 6 | 7 | 9 | 1 | 0 | 0 | 45 | | |
| | A / no subtype | 13 | 8 | 16 | 27 | 26 | 48 | 65 | 153 | 212 | 247 | 258 | 115 | 38 | 20 | 13 | 1,259 | | |
| | Co-infection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 5 | | |
| | B / Yamagata | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 3 | 0 | 1 | 2 | 14 | | |
| | B / Victoria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | | |
| | B / no lineage | 0 | 2 | 1 | 3 | 10 | 12 | 21 | 20 | 54 | 63 | 140 | 73 | 35 | 28 | 22 | 484 | | |
| Sussex County | A / 2009 H1N1 | 0 | 1 | 1 | 1 | 0 | 3 | 4 | 7 | 10 | 3 | 6 | 6 | 2 | 1 | 1 | 46 | 2,833 | 37.0% |
| | A / 2012 H3N2 | 2 | 0 | 2 | 0 | 2 | 7 | 3 | 9 | 6 | 6 | 5 | 3 | 3 | 2 | 2 | 52 | | |
| | A / no subtype | 14 | 21 | 33 | 38 | 45 | 82 | 84 | 156 | 291 | 298 | 346 | 209 | 99 | 40 | 33 | 1,787 | | |
| | Co-infection | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 5 | 5 | 0 | 1 | 1 | 1 | 0 | 19 | | |
| | B / Yamagata | 0 | 1 | 1 | 3 | 0 | 1 | 0 | 1 | 1 | 3 | 3 | 4 | 1 | 2 | 2 | 23 | | |
| | B / Victoria | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 2 | 2 | 10 | | |
| | B / no lineage | 3 | 1 | 7 | 7 | 18 | 32 | 18 | 62 | 98 | 131 | 197 | 125 | 62 | 75 | 60 | 896 | | |

Table 1b. Influenza positive¹ cases reported² statewide and county by age group, Delaware 2017-18

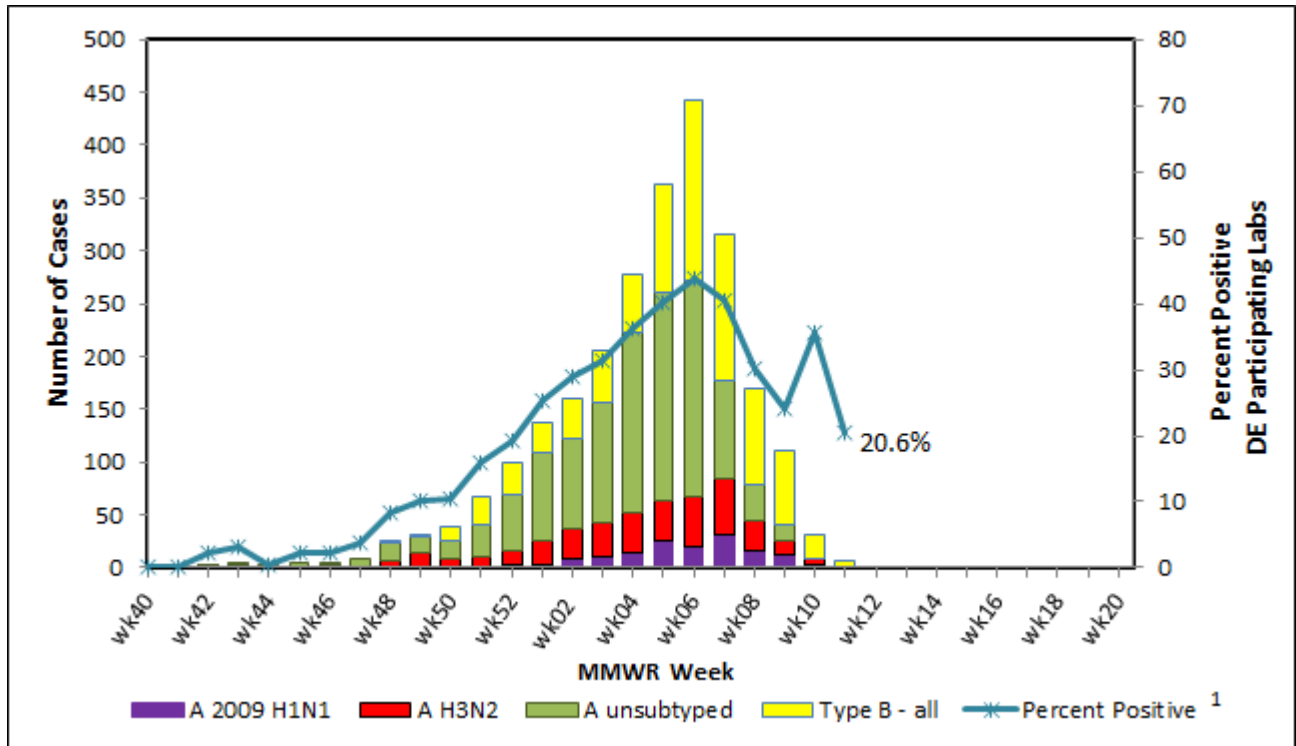
| Confirmed Flu Cases by Age Group | Wk 40-49 | Wk 50 | Wk 51 | Wk 52 | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk 9 | Wk 10 | Wk 11 | YTD | YTD Total | YTD County % | |
|----------------------------------|--------------------------|-----------|-------|-------|------|------|------|------|------|------|------|------|------|-------|-------|--------------|--------------|--------------|--------------|
| STATEWIDE | 0-4 years | 7 | 3 | 10 | 15 | 19 | 47 | 58 | 122 | 181 | 258 | 298 | 191 | 87 | 61 | 40 | 1,397 | 7,651 | |
| | 5-24 years | 13 | 9 | 19 | 26 | 32 | 81 | 103 | 212 | 390 | 493 | 611 | 330 | 147 | 133 | 81 | 2,680 | | |
| | 25-49 years | 13 | 5 | 20 | 34 | 38 | 68 | 83 | 135 | 167 | 222 | 248 | 126 | 67 | 28 | 26 | 1,280 | | |
| | 50-64 years | 15 | 15 | 13 | 34 | 36 | 56 | 62 | 96 | 116 | 127 | 161 | 103 | 44 | 29 | 24 | 931 | | |
| | 65+ years | 33 | 17 | 36 | 35 | 66 | 107 | 77 | 106 | 154 | 176 | 242 | 151 | 79 | 39 | 45 | 1,363 | | |
| | New Castle County | 0-4 years | 3 | 2 | 5 | 7 | 8 | 13 | 25 | 36 | 49 | 117 | 120 | 96 | 44 | 27 | 17 | | |
| 5-24 years | 8 | 3 | 8 | 13 | 15 | 37 | 48 | 70 | 99 | 162 | 204 | 114 | 59 | 45 | 28 | 913 | | | |
| 25-49 years | 8 | 0 | 8 | 20 | 12 | 33 | 37 | 51 | 52 | 90 | 96 | 38 | 21 | 9 | 12 | 487 | | | |
| 50-64 years | 6 | 6 | 6 | 12 | 18 | 33 | 27 | 35 | 52 | 59 | 56 | 35 | 17 | 13 | 7 | 382 | | | |
| 65+ years | 21 | 4 | 8 | 9 | 32 | 49 | 41 | 44 | 54 | 62 | 95 | 62 | 35 | 22 | 15 | 553 | | | |
| Kent County | 0-4 years | 0 | 0 | 2 | 4 | 4 | 14 | 15 | 48 | 64 | 71 | 85 | 39 | 22 | 12 | 9 | 389 | 1,914 | 25.0% |
| 5-24 years | 2 | 1 | 6 | 9 | 9 | 15 | 29 | 64 | 116 | 145 | 177 | 77 | 20 | 21 | 11 | 702 | | | |
| 25-49 years | 3 | 2 | 2 | 3 | 12 | 14 | 20 | 34 | 51 | 59 | 77 | 38 | 16 | 9 | 4 | 344 | | | |
| 50-64 years | 6 | 3 | 2 | 6 | 7 | 10 | 17 | 25 | 24 | 26 | 40 | 28 | 7 | 6 | 6 | 213 | | | |
| 65+ years | 5 | 4 | 7 | 12 | 9 | 15 | 13 | 28 | 36 | 39 | 50 | 25 | 13 | 3 | 7 | 266 | | | |
| Sussex County | 0-4 years | 4 | 1 | 3 | 4 | 7 | 20 | 18 | 38 | 68 | 70 | 93 | 56 | 21 | 22 | 14 | 439 | | |
| 5-24 years | 3 | 5 | 5 | 4 | 8 | 29 | 26 | 78 | 175 | 186 | 230 | 139 | 68 | 67 | 42 | 1,065 | | | |
| 25-49 years | 2 | 3 | 10 | 11 | 14 | 21 | 26 | 50 | 64 | 73 | 75 | 50 | 30 | 10 | 10 | 449 | | | |
| 50-64 years | 3 | 6 | 5 | 16 | 11 | 13 | 18 | 36 | 40 | 42 | 65 | 40 | 20 | 10 | 11 | 336 | | | |
| 65+ years | 7 | 9 | 21 | 14 | 25 | 43 | 23 | 34 | 64 | 75 | 97 | 64 | 31 | 14 | 23 | 544 | | | |

¹ Based on patients with positive nucleic acid or viral culture test results reported to the Division of Public Health.

² Reports are by the date the laboratory results are obtained. As a result, prior weeks' counts may be adjusted to reflect additional cases received.

³ 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 cases¹ of influenza by type and subtype/lineage, Delaware 2017-18*



¹ 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

| Hospitalized Flu Cases by Age Group | | Wk 40-49 | Wk 50 | Wk 51 | Wk 52 | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk 9 | Wk 10 | Wk 11 | YTD | YTD Total | YTD County % |
|-------------------------------------|-------------|----------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|-----------|--------------|
| STATEWIDE | 0-4 years | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 8 | 8 | 17 | 5 | 7 | 4 | 3 | 2 | 59 | 1,077 | |
| | 5-24 years | 1 | 1 | 0 | 2 | 1 | 1 | 3 | 4 | 6 | 7 | 7 | 7 | 3 | 7 | 2 | 52 | | |
| | 25-49 years | 2 | 0 | 1 | 3 | 2 | 10 | 4 | 6 | 8 | 20 | 11 | 9 | 7 | 5 | 2 | 90 | | |
| | 50-64 years | 5 | 8 | 2 | 9 | 11 | 16 | 10 | 21 | 19 | 27 | 35 | 26 | 14 | 10 | 3 | 216 | | |
| | 65+ years | 22 | 9 | 10 | 16 | 37 | 59 | 40 | 56 | 74 | 85 | 100 | 66 | 46 | 16 | 24 | 660 | | |
| New Castle County | 0-4 years | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 7 | 4 | 15 | 4 | 6 | 2 | 3 | 2 | 47 | 606 | 56.3% |
| | 5-24 years | 1 | 0 | 0 | 2 | 1 | 1 | 2 | 2 | 6 | 5 | 5 | 4 | 2 | 7 | 2 | 40 | | |
| | 25-49 years | 2 | 0 | 1 | 3 | 0 | 6 | 3 | 5 | 3 | 13 | 7 | 2 | 1 | 1 | 2 | 49 | | |
| | 50-64 years | 3 | 3 | 2 | 6 | 8 | 13 | 8 | 8 | 13 | 17 | 16 | 11 | 11 | 6 | 2 | 127 | | |
| | 65+ years | 18 | 3 | 4 | 4 | 23 | 32 | 23 | 23 | 35 | 44 | 48 | 35 | 29 | 12 | 10 | 343 | | |
| Kent County | 0-4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 1 | 0 | 2 | 0 | 0 | 8 | 226 | 21.0% |
| | 5-24 years | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 8 | | |
| | 25-49 years | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 4 | 5 | 2 | 6 | 4 | 3 | 0 | 27 | | |
| | 50-64 years | 2 | 2 | 0 | 0 | 2 | 3 | 1 | 8 | 3 | 3 | 10 | 5 | 1 | 2 | 0 | 42 | | |
| | 65+ years | 3 | 2 | 2 | 7 | 5 | 10 | 4 | 18 | 22 | 21 | 23 | 11 | 9 | 0 | 4 | 141 | | |
| Sussex County | 0-4 years | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 4 | 245 | 22.7% |
| | 5-24 years | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 4 | | |
| | 25-49 years | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 0 | 14 | | |
| | 50-64 years | 0 | 3 | 0 | 3 | 1 | 0 | 1 | 5 | 3 | 7 | 9 | 10 | 2 | 2 | 1 | 47 | | |
| | 65+ years | 1 | 4 | 4 | 5 | 9 | 17 | 13 | 15 | 17 | 20 | 29 | 20 | 8 | 4 | 10 | 176 | | |

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

| Influenza-Related Deaths | Wk 40-49 | Wk 50 | Wk 51 | Wk 52 | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6 | Wk 7 | Wk 8 | Wk 9 | Wk 10 | Wk 11 | YTD |
|--------------------------|----------|-------|-------|-------|------|------|------|------|------|------|------|------|------|-------|-------|-----|
| | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 3 | 7 | 6 | 6 | 4 | 0 | 1 | 31 |

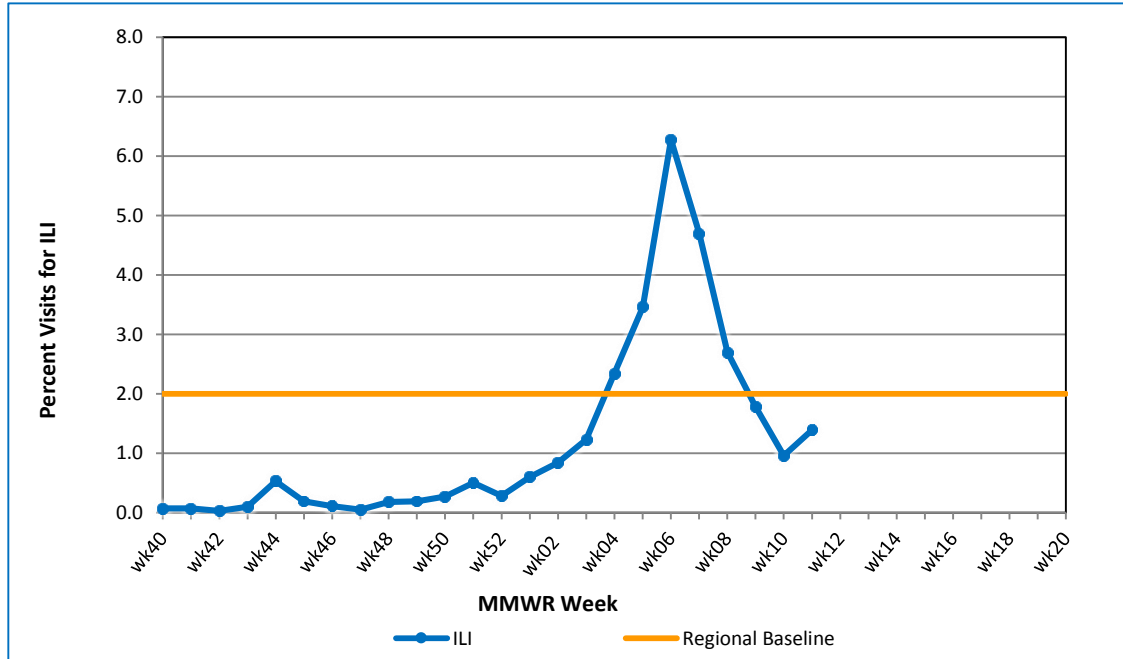
Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-05 through 2017-18

| 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 (YTD) | 7,651 |

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.

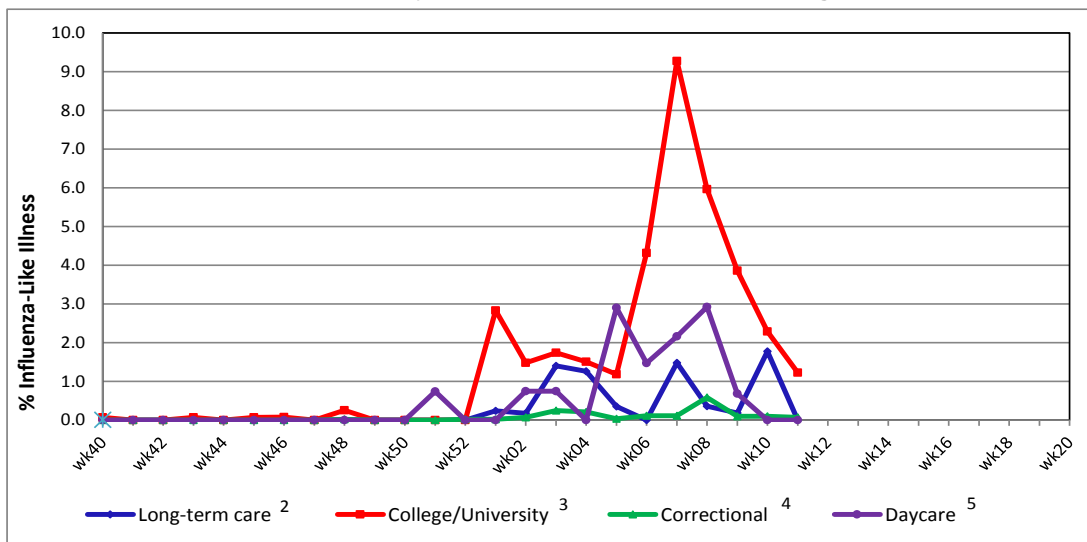
Figure 2. Percentage of visits for influenza-like illness reported by sentinel providers¹ participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2017-18



¹ Eleven of 13 sentinel providers reported.

² 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 partners¹, Delaware 2017-18



¹ ILINet reporting partners include long-term care facilities, colleges / universities, correctional facilities and daycare facilities.

² % ILI= percentage of residents with ILI symptoms: Five long-term care facilities reported.

³ % ILI= percentage of student visits for ILI; Two universities reported.

⁴ % ILI= percentage of visits for ILI at the correctional facility; Nine correctional facilities reported.

⁵ % ILI= percentage of children absent with ILI; One daycare provider reported.

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

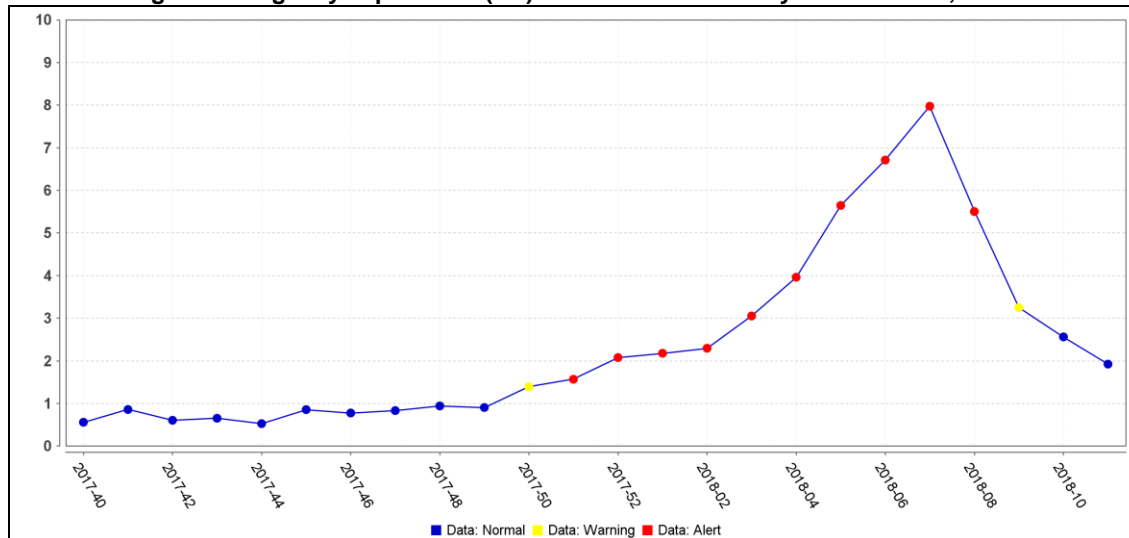
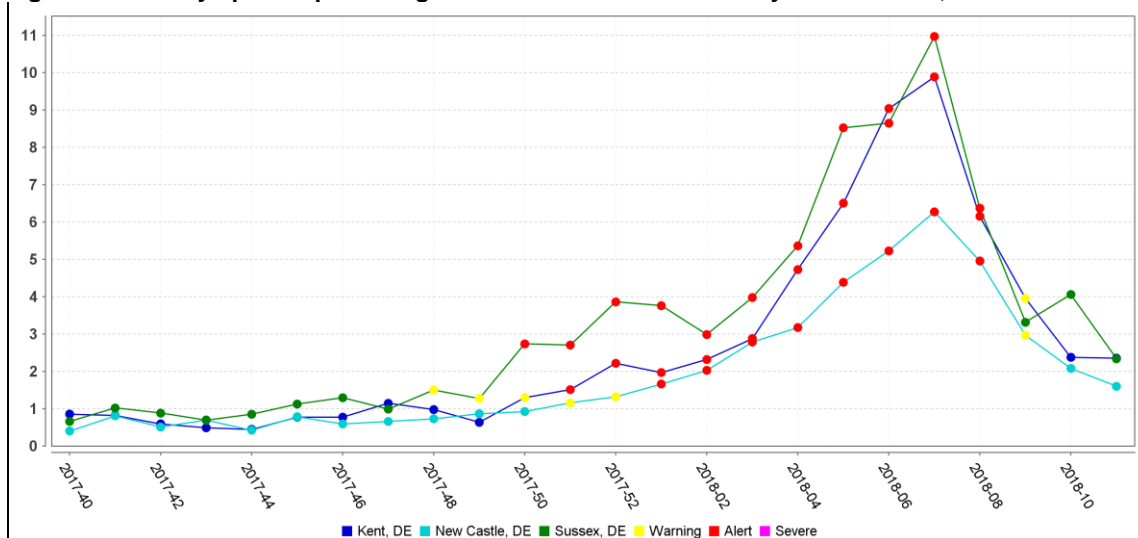


Figure 4b. County-specific percentages of ED visits due to ILI/Flu by MMWR Week, Delaware 2017-18



Summary of International Influenza Activity

Influenza activity remained high but appeared to have peaked in some countries in the temperate zone of the northern hemisphere. In the temperate zone of the southern hemisphere activity remained at inter-seasonal levels. Worldwide, influenza A and influenza B accounted for a similar proportion of influenza detections.

In North America overall, influenza activity began a downward slope after peaked in recent weeks as expected in Canada, Mexico and the United States. Influenza A(H3N2) and influenza B co-circulated in the sub-region. In the United States and Canada, ILI activity decreased, while in Mexico SARI/ILI activity slightly decreased as expected.

In Central America epidemiological indicators remained at moderate levels and influenza and RSV circulation were reported to decrease throughout the sub region.

In the Caribbean, influenza virus activity increased and low RSV activity was reported throughout most of the sub-region. Influenza activity continued elevated in French Territories, Jamaica and Puerto Rico in recent weeks with influenza A(H1N1), A(H3N2) and B co-circulating. In Dominican Republic, influenza A(H1N1)pdm09 activity increased.

In Europe, Influenza viruses continue to circulate widely in the Region with some eastern European countries that have only recently reported increased activity, experiencing a late start to the season with increased circulation of influenza type A viruses. Both influenza virus types A and B were co-circulating with the majority being type B viruses and B/Yamagata continuing to be the dominant lineage.

In the temperate zone of the Western Pacific Region (Northern Hemisphere), ILI and influenza activity is higher than the corresponding period from previous years.

Reference: World Health Organization (WHO), 2017. Influenza Update number 311 (3/19/18). Retrieved March 23, 2018, from http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/. 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 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: 302-744-4990.
- For questions regarding influenza vaccination, please call 302-744-1060.